

पेटेंट कार्यालय
शासकीय जर्नल

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DATE: 10/06/2022

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

10TH JUNE, 2022

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**THE PATENT OFFICE
KOLKATA, 10/06/2022**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

1 Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai – 400 037 Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpatm@nic.in	4 The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai – 600 032. Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in ❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.
2 The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai – 400 037 Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in ❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli	5 The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091 Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in
3 The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi – 110075 Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E-mail: delhi-patent@nic.in ❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.	❖ Rest of India

Website: www.ipindia.nic.in

www.patentoffice.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
कोलकाता, दिनांक 10/06/2022

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdmt@nic.in	4	पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप
2	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ ☐ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दादर और नगर हवेली.	5	पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स: /Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र
3	पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़		

वेबसाइट: <http://www.ipindia.nic.in>
www.patentoffice.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is no third party representation.

Early Publication:

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911000508 A

(19) INDIA

(22) Date of filing of Application :04/04/2019

(43) Publication Date : 10/06/2022

(54) Title of the invention : ONE TIME LOW COST LONG TERM ALL TYPE INSURANCE AND LOAN METHOD

(51) International classification :G06Q0040080000, G06Q0040020000, H05B0041380000, H01L0031076000, G09F0019180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SINGH, Dhir

Address of Applicant :1248/84, Rishabh Vihar, Circular Road, Muzaffarnagar U.P. -----

Name of Applicant : NA

Address of Applicant : NA

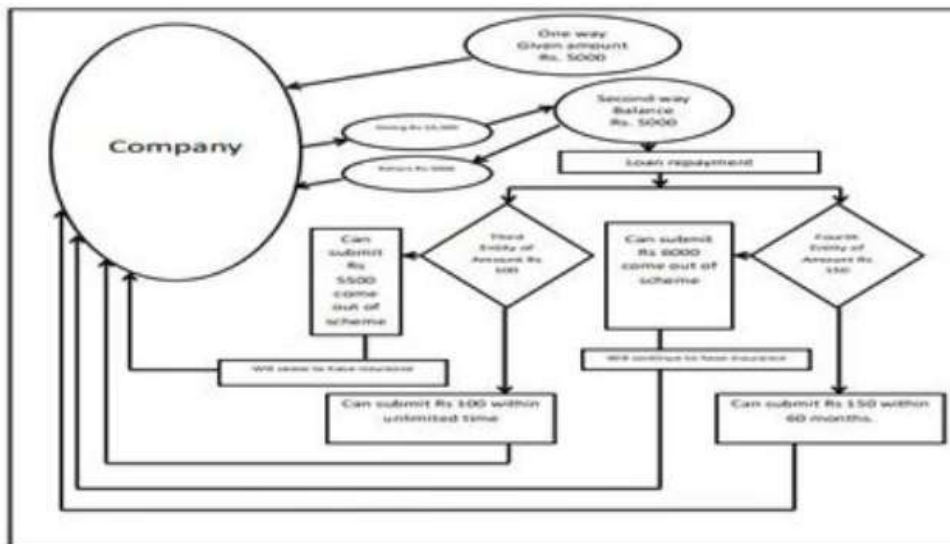
(72)Name of Inventor :

1)SINGH, Dhir

Address of Applicant :1248/84, Rishabh Vihar, Circular Road, Muzaffarnagar U.P. -----

(57) Abstract :

The present invention discloses an insurance method for providing low cost long term insurance for general public. The method involves lending of small amount of money to a person who cannot afford to buy insurance. The method also provided easy repayment of loan paid in a convenient manner.



No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011042658 A

(19) INDIA

(22) Date of filing of Application :01/10/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : CLAY-CNT NANOCOMPOSITE FOR HEAVY METALS REMOVAL FROM WASTEWATER AND PROCESS THEREOF

(51) International classification :C02F0101200000, B82Y0030000000, C02F0001280000, B01J0023745000, C04B0033320000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Address of Applicant :Kashmere Gate, New Delhi-110006, Delhi, India ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)GADI Ranu Address of Applicant :Indira Gandhi Delhi Technical University for Women, Kashmere Gate, New Delhi-110006, Delhi, India ----- 2)YADAV Vijay Bahadur Address of Applicant :Indira Gandhi Delhi Technical University for Women, Kashmere Gate, New Delhi-110006, Delhi, India ----- 3)CHAUHAN Sippy Kalra Address of Applicant :CSIR- Central Road Research Institute, Delhi-Mathura Road, New Delhi-110025, Delhi, India -----

(57) Abstract :

The present invention relates to a process for synthesizing novel Clay-Carbon Nanotubes Nanocomposite (CCN) adsorbent material in the form of a powder synthesized from clay mineral and carbon nanotubes (CNT) for removal of heavy metals from wastewater. In the process the clay mineral kaolinite is used as matrix and carbon nanotubes as reinforcement for removing heavy metals such as As (III), Cd (II), Cr (VI), Ni (II), Pb (II) from wastewater. The process also includes quantitative change of chemicals for modifying clay and CNT especially Dimethyl Formamide and other acids for synthesizing CCN. Also for synthesising adsorbent CCN activated clay (kaolinite) and CNT are used in variable synergistic amounts such as adsorbent CCN-1 consists of 15% activated CNT, adsorbent CCN-4 consists of 3% CNT, and CCN-5 consists of 1% CNT. Further, the adsorbent synthesised by the process of present invention can be regenerated and is reusable.

No. of Pages : 35 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111020372 A

(19) INDIA

(22) Date of filing of Application :04/05/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMART AUTONOMOUS KITCHEN CHIMNEY

(51) International classification :F24C0015200000, G05D0001020000, G06Q0050280000, F24F0110700000, G05B0019042000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Somany Home Innovation Ltd

Address of Applicant :Plot No-68, Echelon Institutional Area, Sector 32, Gurgaon, Haryana, 122001, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amal Kumar Das

Address of Applicant :Plot No-68, Echelon Institutional Area, Sector 32, Gurgaon, Haryana, 122001, India -----

2)Nikhil Maheshwari

Address of Applicant :Plot No-68, Echelon Institutional Area, Sector 32, Gurgaon, Haryana, 122001, India -----

(57) Abstract :

The present invention discloses a smart autonomous kitchen chimney (10); comprising a sensor (12) configured to sense the environmental condition of a room; a controller (16) configured to receive the data of the environmental condition of room from the sensor (12); wherein the controller (16) configured to on/off of the fan and operate speed of a fan (18) based on the data of the environmental condition of room or the cooking activities.

No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111021711 A

(19) INDIA

(22) Date of filing of Application :13/05/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : MOVEABLE LIGHT WEIGHT KITCHEN CHIMNEY

(51) International classification :F24C0015200000, E04F0017020000, F24S0025700000, E03C0001050000, F23J0013040000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Somany Home Innovation Limited

Address of Applicant :Plot No 68, Sector 32, Gurugram, Haryana, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ankit

Address of Applicant :Plot No 68, Sector 32, Gurugram, Haryana, India -----

2)Amit Gambhir

Address of Applicant :Plot No 68, Sector 32, Gurugram, Haryana, India -----

3)Nikhil Maheshwari

Address of Applicant :Plot No 68, Sector 32, Gurugram, Haryana, India -----

(57) Abstract :

The present invention discloses a light weight split type kitchen chimney disposed on a rail guided channel is configured to move or adjust in the horizontal and vertical direction. The kitchen chimney includes a bellow pipe configured to extend or shrink in length depending on the change in position of the kitchen chimney on the guided rail. The kitchen chimney does not include a motor and a blower. The motor and the blower installed outside the kitchen chimney to reduce the weight kitchen chimney and to achieve lower noise level as compared to conventional kitchen chimney. The noise generating parts of the kitchen chimney such as motor and blower are provided in an outer box, wherein the bellow pipe detachably connects kitchen chimney and the outer box.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024510 A

(19) INDIA

(22) Date of filing of Application :02/06/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SUGAR-BASED GRAPHENE FOAM AND GRAPHENE SYNTHESIS PROCESS AND APPLICATIONS THEREOF

(51) International classification :B82Y0040000000, C30B0025180000, B82Y0030000000, C01B0032186000, H01L0029660000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Address of Applicant :Roorkee -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. INDRANIL LAHIRI

Address of Applicant :Department of Metallurgical & Materials Engineering, Indian Institute of Technology Roorkee Roorkee -----

2)MR. NARASIMHA VINOD PULAGARA

Address of Applicant :Department of Metallurgical & Materials Engineering, Indian Institute of Technology Roorkee Roorkee-247667 -----

(57) Abstract :

The present invention relates to a system and method for synthesis of graphene foam from sugar via a simple, template-based, scalable, low-temperature process. The 3D graphene is obtained through a simple heat treatment process using sugar as a carbon source and at a temperature as low as 450 degrees centigrade.

No. of Pages : 33 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111026343 A

(19) INDIA

(22) Date of filing of Application :14/06/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL ECO FRIENDLY METHOD OF MAKING COMPRESSED BOARD FROM AGRIWASTE AND SOLID WASTE

(51) International classification :H04N0021433000, C01D0007120000, H04N0021478800, B05D0007140000, C05F0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely professional University

Address of Applicant :Jalandhar Delhi GT road Phagwara, Punjab, India -144411 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr Suman Maji

Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara -----

2)Pragati Sharma

Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara -----

3)Prahlaad Yadav

Address of Applicant :Lovely Professional University Jalandhar Delhi GT road Phagwara -----

(57) Abstract :

The present invention is about a novel and environment friendly method to make board from agricultural waste and solid waste. The process is cost effective and industry scalable. The said invention solves the problem of solid waste to a certain level and gives readily usable product out of it. The present invention is ecofriendly as it works with seed impregnation and once used the board can also be used for land reclamation.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032780 A

(19) INDIA

(22) Date of filing of Application :21/07/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYNERGISTIC INSECTICIDAL COMPOSITION

(51) International classification :C07C0281140000, A01N0043880000, A01N0051000000, B01D0011020000, C05B0007000000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)REDSON RETAIL & REALITY PVT. LTD.

Address of Applicant :A-88 Ashok Vihar Phase-I, Delhi - 110052. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. SAURABH TRIPATHI

Address of Applicant :A-88 Ashok Vihar Phase-I, Delhi - 110052. -----

(57) Abstract :

The present invention provides a novel and synergistic insecticidal composition comprising Flonicamid, Diafenthiuron, soy protein, and potassium laurate, which can be formulated into various formulations and provides effective control against agricultural pests. The composition of the present invention is efficacious over the application of known pests.

No. of Pages : 23 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/08/2021

(21) Application No.202111036363 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A PROBIOTIC OLIVE LEAF BASED FERMENTATIVE AND NUTRACEUTICAL BEVERAGE COMPOSITION AND PROCESS OF PREPARATION THEREOF

(51) International classification	:A61K0036630000, A23L0033105000, A61K0036280000, A23L0002520000, A61K0045060000	(71)Name of Applicant : 1)Rajasthan Olive Cultivation Limited, Jaipur Address of Applicant :Rajasthan Olive Cultivation Limited, SIAM Complex Tonk Road, Durgapura, Jaipur Rajasthan-302018, India ----- 2)Manipal University Jaipur 3)Jiwaji University, Gwalior 4)Tripura University, Tripura Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. Mousumi Debnath Address of Applicant :Manipal University Jaipur, Dehmi Kalan, Jaipur-Ajmer Express Highway, Jaipur Rajasthan-303007, India -- -----
(87) International Publication No	: NA	2)Prof. G.B.K.S. Prasad Address of Applicant :Jiwaji University Sachin Tendulkar Rd, Kailash Nagar, Mahalgaon, Gwalior Madhya Pradesh-474001, India -----
(61) Patent of Addition to Application Number	:NA	3)Prof. Debashish Maiti Address of Applicant :Tripura University NH8, Suryamani Nagar Agartala Tripura-799022, India -----
Filing Date	:NA	4)Dr. Surinder Singh Shekhawat Address of Applicant :Rajasthan Olive Cultivation Limited, SIAM Complex Tonk Road, Durgapura, Jaipur Rajasthan-302018, India - -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses at least one probiotic olive leaf based fermentative and nutraceutical beverage composition, and a process of preparation thereof. The probiotic olive leaf based fermentative and nutraceutical beverage composition comprises at least one phenolic secoiridoid, at least one volatile organic compound, and at least one probiotic microorganism, displays anti-cancer and anti-diabetic properties, and is used for making olive leaf based wines, olive leaf based vinegars, alcoholic beverages, and other beneficial fermentative and nutraceutical beverages. The presence of the polyphenolic secoiridoid aids in improving immunity and in combatting human diseases such as diabetes, cancer, and in particular, liver, lung and skin cancer. The probiotic olive leaf based fermentative and nutraceutical beverage composition also comprises at least one vitamin, mineral, volatile organic compounds, carbohydrate and protein. A first and second fermentation agent are used to produce a first olive leaf beverage (122) and a second olive leaf beverage (126), respectively.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/12/2021

(21) Application No.202111061564 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN INTUBATION DEVICE

(51) International classification :A61M0016040000, A61B0001267000, A61B0001000000, H04N0005225000, A61B0001060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. SAMEER SHARMA
Address of Applicant :Department of Anesthesiology, All India Institute Of Medical Sciences Rishikesh, -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR. SAMEER SHARMA
Address of Applicant :Department of Anesthesiology, All India Institute Of Medical Sciences Rishikesh, -----

(57) Abstract :

The present invention relates to a system and method for video assisted directional bougie. The system is made out of traditional gum elastic bougie material which is flexible, thin diameter intubation guide which incorporates a camera (1) and LED (2) lights on its tip (3). The curved spring in the flexible neck of the rigid distal tip gives the instrument directional control when device is moved in or out of the endotracheal tube. Thus the present invention provides cost effective system and easy to use. As there are no mechanical parts for movement of tip; there is less chance of defective working. The device is compatible with all devices and no inbuilt screen is required.

No. of Pages : 24 No. of Claims : 3

(54) Title of the invention : A STAND-ALONE AND SCALABLE ECG CABLE FOR COLLECTING AND PROCESSING CARDIAC DATA SEQUENTIALLY AND SIMULTANEOUSLY

(51) International classification :A61B0005000000, A61B0005040000, A61B0005040800, A61B0005045200, A61B0005024000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Sunfox Technologies Private Limited

Address of Applicant :112, Dharampur Rd, Nehru Colony, Dharampur, Dehradun, Uttarakhand 248001 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Rajat Jain

Address of Applicant :112, Dharampur Rd, Nehru Colony, Dharampur, Dehradun, Uttarakhand 248001 -----

2)Mr. Nitin Chandola

Address of Applicant :112, Dharampur Rd, Nehru Colony, Dharampur, Dehradun, Uttarakhand 248001 -----

3)Mr. Saurabh Badola

Address of Applicant :112, Dharampur Rd, Nehru Colony, Dharampur, Dehradun, Uttarakhand 248001 -----

(57) Abstract :

An ECG cable for collecting and processing cardiac data sequentially and simultaneously [0026] The present invention discloses a stand-alone and scalable ECG cable for collecting and monitoring cardiac data sequentially and simultaneously, wherein a cable (101) monitors and processes the cardiac activity of an individual in real-time. The cable (101) comprises a first end (101a) for collecting cardiac data from an individual and a second end (101b) for interfacing the cable (101) with a user interface device (102). Further, a junction box (103) in the cable (101) processes the cardiac data collected by the first end (101a) of the cable (101), wherein the processed cardiac data from the junction box (103) is transmitted to the user interface device (102) through the second end (101b) of the cable (101) for display or subsequent analysis.

No. of Pages : 15 No. of Claims : 4

(54) Title of the invention : METHOD OF RUNNING AN UNROLLED BINARY SEARCH OR MULTIPLE LEVEL SEARCH FOR PIPELINE ADC

(51) International classification :H03M0001060000, H03M0001160000, H03M0001460000, H03M0001360000, H04L0012440000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Saurabh Dhiman Address of Applicant :G2-Parashar Hostel, Indian Institute of Technology Mandi, Kamand Campus, VPO Kamand, District Mandi, Himachal Pradesh – 175005 India ----- 2)Dr Navneet Gupta 3)Dr Hitesh Shrimali Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Saurabh Dhiman Address of Applicant :G2-Parashar Hostel, Indian Institute of Technology Mandi, Kamand Campus, VPO Kamand, District Mandi, Himachal Pradesh – 175005 India ----- 2)Dr Navneet Gupta Address of Applicant :C39, Ground Floor, Parsvanath Paradise, Mohan Nagar, Ghaziabad, UP- 201007, India ----- 3)Dr Hitesh Shrimali Address of Applicant :C11-G1, Indian Institute of Technology Mandi, Kamand Campus, VPO Kamand, District Mandi, Himachal Pradesh – 175005 India -----

(57) Abstract :

Present invention relates to METHOD OF RUNNING AN UNROLLED BINARY SEARCH OR MULTIPLE LEVEL SEARCH FOR PIPELINE ADC [FIG. 1] comprising of: N comparators, (N-1) SCMA logic blocks, and (N-2) buffers; Switched capacitor multiplexing and addition (SCMA) logic blocks; Dynamic comparators; Clocked buffers; Digital-to-analog converter (DAC); a register bank; a digital control circuit to control the internal operation of the SCMA logic block; and characterized in that, an adjustable input-queued binary split algorithm (AI-QBSA) functionalized to convert an analog input signal into an equivalent N bit of digital data wherein, the N-bit output is obtained with the help of n stages: wherein n = N-1;wherein each nth stage is comprised of an SCMA logic block and a comparator, along with an LSB comparator. [122]

No. of Pages : 32 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211024041 A

(19) INDIA

(22) Date of filing of Application :23/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : POLYHERBAL CHEWING GUM FOR ORAL AND DENTAL CARE

(51) International classification :A61Q0011000000, A23G0004060000, A61K0036534000, A61K0036906400, A61K0036220000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)UTSAV GUPTA Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India ----- 2)SHUBHAM SRIVASTAVA 3)IBHYA SINGH 4)VIVEK CHAUHAN 5)PREETI CHAUHAN 6)ANKITA TRIPATHI 7)LALIT RANA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)UTSAV GUPTA Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India ----- 2)SHUBHAM SRIVASTAVA Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India ----- 3)IBHYA SINGH Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India ----- 4)VIVEK CHAUHAN Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India ----- 5)PREETI CHAUHAN Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India ----- 6)ANKITA TRIPATHI Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India ----- 7)LALIT RANA Address of Applicant :IIMT College of Pharmacy, Plot No. 20A, Knowledge Park –III, Greater Noida, District: Gautam Buddha Nagar, Uttar Pradesh-201310, India -----

(57) Abstract :

The present invention is related to a novel polyherbal chewing gum composition comprising plant parts such as leaves or essential oils of Tulsi, Peppermint, Betel leaves, Cardamom and other pharmaceutically acceptable excipients. The disclosed chewing gum composition due to components and the quantities of ingredients provide anti-bacterial, anti-fungal and mouth freshening action and thus improves oral and dental health by simultaneously cleansing and freshening the oral cavities and keeps dental and oral hygiene up to the mark.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211024962 A

(19) INDIA

(22) Date of filing of Application :28/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN AND DEVELOP A CLINICAL MERITS OF CAD/CAM MANUFACTURED DENTURES.

(51) International classification	:A61C0013000000, A61C0013080000, A61C0009000000, A61C0019040000, A61C0013120000	(71)Name of Applicant : 1)Dr. Shalabh Kumar Address of Applicant :Professor & Head, Dept of Prosthodontics, Teerthanker Mahaveer Dental College and Research Centre, Moradabad, UP. ----- 2)Dr. Manoj Kumar 3)Dr. Roma Goswami 4)Dr. Madhurima Sharma 5)Dr. Rohit Kumar Sharma 6)Dr. Deepesh Saxena Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Shalabh Kumar Address of Applicant :Professor & Head, Dept of Prosthodontics, Teerthanker Mahaveer Dental College and Research Centre, Moradabad, UP. ----- 2)Dr. Manoj Kumar Address of Applicant :Professor, Dept of Prosthodontics, IT'S CDSR, Moradnagar, UP. ----- 3)Dr. Roma Goswami Address of Applicant :Professor & Head, Dept. of Prosthodontics and crown and bridge, Subharti Dental College and hospital, Swami Vivekanand Subharti University, Meerut, UP. ----- 4)Dr. Madhurima Sharma Address of Applicant :Professor, Dept of Prosthodontics, Teerthanker Mahaveer Dental College and Research Centre Moradabad ,UP ----- ----- 5)Dr. Rohit Kumar Sharma Address of Applicant :Professor, Dept of Conservative and Endodontics, Teerthanker Mahaveer Dental College and Research Centre Moradabad ,UP ----- 6)Dr. Deepesh Saxena Address of Applicant :Professor, Dept. of Prosthodontics and crown & bridge, Subharti dental college, Swami Vivekanand subharti university, Meerut, UP -----
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Our Invention Design and Develop a clinical merits of CAD/CAM Manufactured Dentures is a The point of the review was to test the achievability of utilizing financially accessible PC helped plan and PC supported assembling (CAD/CAM) innovation including 3Shape Dental System 2013 preliminary adaptation, WIELAND V2.0.049 and WIELAND ZENOTEC T1 processing machine to plan and create total false teeth. The displaying system of full dental replacement accessible in the preliminary adaptation of 3Shape Dental System 2013 was utilized to plan virtual complete false teeth based on 3-layered (3D) advanced edentulous models produced from the actual models. The virtual complete false teeth planned were traded to CAM programming of WIELAND V2.0.049. A WIELAND ZENOTEC T1 processing machine constrained by the CAM programming was utilized to create actual dentitions and baseplates by processing acrylic pitch composite plates. The actual dentitions were attached to the comparing baseplates to shape the maxillary and mandibular complete false teeth. Virtual complete false teeth were effectively planned utilizing the product through a few stages including age of 3D advanced edentulous models, model examination and course of action of fake teeth, managing help region, and occlusal change. Actual dentitions and baseplates were effectively created by the planned virtual complete false teeth utilizing processing machine constrained by a CAM programming. Holding actual dentitions to the relating baseplates created the last actual complete false teeth. Our review showed the way that total false teeth could be effectively planned and created by utilizing CAD/CAM.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2022

(21) Application No.202211025862 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : NANO-CURCUMIN FORTIFIED DAIRY CREAMER AND METHOD THEREOF

(51) International classification :A23L0033105000, A23C0009152000, A61K0031120000, A23C0009154000, C11D0003420000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)National Institute of Food Technology Entrepreneurship and Management (NIFTEM)
Address of Applicant :Plot No. 97, Sector- 56, HSIIDC Industrial Estate, Kundli, Sonipat, Haryana 131028 -----

Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Prarabdh C. Badgujar
Address of Applicant :Department of Food Science and Technology National Institute of Food Technology Entrepreneurship and Management (NIFTEM) Plot No. 97, Sector- 56, HSIIDC Industrial Estate, Kundli, Sonipat, Haryana 131028 -----
2)Kiran Verma
Address of Applicant :Department of Food Science and Technology National Institute of Food Technology Entrepreneurship and Management (NIFTEM) Plot No. 97, Sector- 56, HSIIDC Industrial Estate, Kundli, Sonipat, Haryana 131028 -----
3)Ayon Tarafadar
Address of Applicant :Department of Food Science and Technology National Institute of Food Technology Entrepreneurship and Management (NIFTEM) Plot No. 97, Sector- 56, HSIIDC Industrial Estate, Kundli, Sonipat, Haryana 131028 -----

(57) Abstract :

The present invention relates to the development of nano-curcumin fortified dairy creamer (NNDC) to offer curcumin in the nano size (so as to increase its functionality), daily use, and convenient (functional) food format so as to enhance the bioaccessibility and bioavailability of curcumin and to provide nanocurcumin in a food format product that is sensorially/organoleptically acceptable and can be consumed by masses as well as offer a nanocurcumin based food product that of safe (devoid of toxicity).

No. of Pages : 23 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2022

(21) Application No.202211028006 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : I-UV- LIGHT BOX: MODIFIED VERSION OF UV- SANITIZERS

(51) International classification :A61L0002100000, A23B0007015000, A23L0003280000, A23B0009060000, A61L0002240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Manoj Kumar Gupta

Address of Applicant :IH-004, staff colony, M.N.N.I.T Allahabad, Teliyarganj, Allahabad, Uttar Pradesh, 211004 Prayagraj -----

2)Mr. Harinder Singh

3)Dr. Parul Katiyar

4)Prof. Dr. Biplab Kumar Sarkar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Manoj Kumar Gupta

Address of Applicant :IH-004, staff colony, M.N.N.I.T Allahabad, Teliyarganj, Allahabad, Uttar Pradesh, 211004 Prayagraj -----

2)Mr. Harinder Singh

Address of Applicant :47-Panjabi Bagh Patiala, Punjab-147001, India. Patiala -----

3)Dr. Parul Katiyar

Address of Applicant :Ward no 2 Shikshak Nahar shankargarh, Tala, Shankargarh, Allahabad, Bara, Uttar Pradesh 212108 Prayagraj -----

4)Prof. Dr. Biplab Kumar Sarkar

Address of Applicant :Mahatma Education Society's Pillai HOC College Of Engineering &Technology Rasayani, Taluka Panvel, Dist, Navi Mumbai, Maharashtra 410207, India Panvel -----

(57) Abstract :

My Invention I-UV- Light Box is an ultraviolet (UV) light disinfection technology is provided that disinfects products such as fruits, Glossary items, kitchen equipment, on line food delivered things, and vegetables by direct exposure to ultraviolet light. The disinfecting UV light eliminates pathogens, such as corona virus, virus, melds and bacteria from the surfaces that it illuminates. [604] The I- UV- Light Box is disinfected over its entire surface and top, bottom, side view, front view of the object. The I-UV- Light can be move, rotated on a slider, surface, conveyor, to illuminate all of the exterior surface of the I-UV- Light Box with a disinfecting UV light source. [606] To better respond to I-UV- Light Box of varying making material, inner surface, outer surface, height and size, the I-UV light disinfection apparatus can include an automatic all function control and operate by user mobile. You know today all Indian needed foodstuff such as fruit, vegetables, grains or nuts is treated to reduce, kill, disinfect, virus, corona virus, microbial contamination (UV-C irradiation, preferably in a (nitrogen, oxygen, argon, carbon dioxide) CO2 Atmosphere, preferably at -2 to +6° C.) [609] and to induce protective phytoalexins (UV-A, UV-B and UV-C irradiation) and to destroy aflatoxins (UV irradiation, primarily UV-C) also the invention has many other embodiments and can have reflector or UV-C light [612] bulbs in various shapes ranging from circular to parabolic and can detect RNA of virus and have rotating UV-C lamps or trays, the motion of which may follow 360 or 180 degrees or like that of goniometer in x ray.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2022

(21) Application No.202211028845 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FARMING MONITORING USING IOT-BASED TECHNOLOGY.

(51) International classification :H04L0029080000, H04W0004700000, G06Q0030000000, G01D0021020000, G01K0001020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Roorkee Institute of Technology

Address of Applicant :Roorkee Institute of Technology 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Mobile No.: 8059794469 E-mail: dr.bksarkar2003@yahoo.in, director@ritroorkee.com Roorkee -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Deepak Arya

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

2)Dr. Parag Jain

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

3)Naman Bansal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

4)Yash Agarwal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

5)Vishal Sharma

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

6)Gaurav Gupta

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

7)Dr. Gopindra Kumar

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

8)Akshat Agarwal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

9)Shalini Anand

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

10)Vedita Agarwal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

11)Ankur Saini

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

(57) Abstract :

Our Invention Cultivating Monitoring utilizing IoT-Based Technology: is a Web of Things (IoT) expects to be an appointed part in sharp cultivating. The creation will help root with evening out farmers to get into sagacious water framework in term of cultivating. Which offer more essential help with less cost in water framework and most negligible work. Sharp water framework is a definite thought because IoT sensors fit for giving information about their agribusiness fields and making water framework motorized by Internet of Things. The part of this advancement consolidates checking temperature, tenacity, pH and water level in provincial field through sensors. Interconnection of number of devices through web portrays the Internet of things (IoT). Each article is related with each other through intriguing identifier so data can be moved without human to human correspondence. It licenses developing solutions for better organization of typical resources. The insightful articles embedded with sensors enables relationship with the physical and authentic universes as demonstrated by the possibility of IoT. Remote seeing of field water framework system decreases human intervention and licenses remote checking and controlling on android phone. Dispersed registering is an engaging solution for the gigantic proportion of data made by the far off sensor association. This innovation proposes and surveys a cloud-based far off correspondence structure to screen and control a lot of sensors and actuators to assess the plants water need.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2022

(21) Application No.202211028846 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : HAND SANITIZER MAKING PROCESS AND PRODUCTION

(51) International classification :G01N0021650000, A61Q0017000000, A61Q0019100000, C22C0023000000, A61K0031045000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Roorkee Institute of Technology

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Pankaj Singh

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

2)Amit Kr. Rawat

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

3)Dr. Piyush Mani Maurya

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

4)Dr. Parag Jain

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

5)Naman Bansal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

6)Yash Agarwal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

7)Charu Arya

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

8)Dr. Sachin Srivastava

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

9)Saurabh Arya

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

10)Dr. Rachan Karmakar

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

11)Rohit Jain

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

12)Harshit Kumar Singh

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

(57) Abstract :

Our Invention Hand Sanitizer Making Process and Production. is a COVID-19 pandemic prodded an extended interest for neatness supplies, for instance, hand sanitizers. In like manner, incalculable new local or imported hand sanitizer things entered the Indian market. A piece of these things were in this manner saw to be out of specific. Here, to quickly overview the idea of the hand sanitizer things, a quantitative, through-compartment screening procedure was delivered for quick and non-harming screening. Using spatially offset Raman spectroscopy (SORS) and backing vector backslide (SVR), dynamic trimmings (e.g., sort of alcohol) of 173 business and in-house things were recognized and estimated paying little psyche to the compartment material or lack of definition. Alcohol content nearby sanitizer definitions were expected with high accuracy ($R^2 > 0.9843$) ($R^2 > 0.9812$) using SVR and 97% of the unsuitable test tests were perceived. In total, a SORS-SVR technique was made and used for testing clinical countermeasures used against COVID-19, showing a potential for high-volume testing during general prosperity risks.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2022

(21) Application No.202211028847 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : STUDENT STUDY PERFORMANCE MONITORING USING IOT BASED

(51) International classification :H04N0007180000, G06K0009000000, G06Q0050080000, E05B0017000000, H04L0029080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Roorkee Institute of Technology

Address of Applicant :Roorkee Institute of Technology Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Mobile No.: 8059794469 E-mail: dr.bksarkar2003@yahoo.in, director@ritroorkee.com
Roorkee, -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gaurav Gupta

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

2)Bhuvnaswer Swaroop

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

3)Vishal Sharma

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

4)Dr. Deepak Arya

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

5)Dr. Parag Jain

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

6)Naman Bansal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

7)Yash Agarwal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

8)Arvind Dhiman

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

9)Nancy Verma

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

10)Sharvan Kumar Rai

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

11)Vedita Agarwal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

(57) Abstract :

Web of-things (IoT) gives a framework to consolidated enlisting devices with sensors, PDAs, and conveyed figuring stages for association between contraptions. Adroit School is one of the thoughts of IoT and is also a solution for guidance for student actually taking a look at issues. In this audit, student checking is proposed using an IP-based CCTV structure with the ability to recognize and see people. With the assistance of the usage of reference point chips as student character, the system can develop issues of face recognizing evidence to stand up to affirmation. The use of fingerprinting techniques is a general methodology used to choose what is happening of articles while using guide chips reliant upon transmitter banners with the objective that everything going on of a student's face not exactly firmly established subject to the client's situation. The face check measure is then finished by merging fingerprinting methodologies and facial affirmation got by CCTV cameras with a face connection strategy for Open-Face. Exploratory results show that the proposed structure gives incredible precision on student noticing for adroit school applications.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2022

(21) Application No.202211028848 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DRY ELECTRODE MANUFACTURING PROCESSES FOR LITHIUM-ION BATTERIES AND PRODUCTION.

(51) International classification :G01N0021710000, H01M0004040000, H01M0004485000, B05D0003120000, B05B0005030000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Roorkee Institute of Technology Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Mobile No.: 8059794469 E-mail: dr.bksarkar2003@yahoo.in, director@ritroorkee.com Roorkee ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Pavan Gangwar Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee ----- 2)Dr. Sandhya Prajapati Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee ----- 3)Rishabh Singhal Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee ----- 4)Dr. Parag Jain Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee ----- 5)Naman Bansal Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee ----- 6)Yash Agarwal Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee ----- 7)Vipin Saini Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

(57) Abstract :

Our Intention Dry Electrode Manufacturing Processes for Lithium-Ion Batteries and Production is a Lithium-molecule batteries (LIBs) have become one of the crucial energy amassing game plans in current culture. The application fields and slice of the pie of LIBs have extended rapidly and continue to show a reliable rising example. The assessment on LIB materials has scored goliath achievements. Various imaginative materials have been taken on and advocated by the business. A dry anode manufacturing measure used for negligible cost battery through a dry mixing and advancement measure. A warm inception conveys the dry produced cathode like customary slurry projected anodes. The dry cathode mix results from a blend of a greater part of sorts of constituent particles, including something like a working charge material and a cover, and generally a conductive material like carbon. The connection warms the held mix to a moderate temperature for ordering the cover for gripping the mix to the substrate; and packs the put away mix to a thickness for achieving an electrical sufficiency of the compacted, saved blend as a charge material in a battery. We then, review the assessment progress focusing in on the tremendous cost, energy, and time-demand steps of LIBmanufacturing. Finally, we share our viewpoints on challenges in LIB delivering and propose future headway direction for gathering research in LIBs.

No. of Pages : 14 No. of Claims : 7

(54) Title of the invention : DETECT LESIONS USING AI- BASED AT COVID-19 AND CANCER PATIENTS.

(51) International classification :G06T0007000000, G06Q0050220000, G16H0050200000, G16H0010200000, G16H0010600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Roorkee Institute of Technology

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Mobile No.: 8059794469
E-mail: dr.bksarkar2003@yahoo.in, director@ritroorkee.com Roorkee -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Deepak Arya

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

2)Dr. Parag Jain

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

3)Naman Bansal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

4)Yash Agarwal

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

5)Taruna Chhabra

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

6)Gaurav Chaturvedi

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

7)Munendra Chauhan

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

8)Ashok Kumar

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

9)Divya Jain

Address of Applicant :Roorkee Institute of Technology, 8th K.M. Dehradun Road, Puhana, Roorkee, Haridwar (Uttarakhand) 247667 Roorkee -----

(57) Abstract :

Our Invention Shrewd Way to Detect Lesions and Notify The Patients Using AI-Based at Covid-19 and Cancer Patients is a serious degree of questionable pigmented skin wounds implied for assessment are innocuous. Methodologies to chip away at the precision of melanoma dissect all through the patient pathway are supposed to diminish the stress on assistant thought and pathology organizations. The computation arranged to perceive melanoma in dermoscopic pictures of pigmented skin wounds using significant learning techniques, assessed the likelihood of melanoma. Starting data examination was driven in September 2018; further assessment was coordinated from February 2019 to August 2019. The original Covid, generally called SARS-Cov-2 or COVID-19 has transformed into a general risk and the critical clinical consideration stress of the year 2020. Harmful development research was clearly impacted by the emerging of this ailment. As demonstrated by a few Chinese assessments, danger patients are more powerless against COVID-19 intricacies. This insight drove various oncologists to change their regular practice in threatening development care, without solid confirmation and recommendations. Moreover, the COVID-19 appearances similarly as its assurance are explicit in this uncommon people. In this review innovation we uncover the hardships of danger the leaders in the hour of SARS-CoV-2, the epidemiological, clinical, masochist and radiological qualities of the infection in illness patients and its outcomes on this general population. Finally, we base on strategies that are gone on in threatening development the board with review of public and overall standards.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211029021 A

(19) INDIA

(22) Date of filing of Application :20/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD FOR STRATEGIC BRAND MANAGEMENT

(51) International classification :G06Q0010060000, H04W0072120000, G06Q0030020000, B29K0105000000, C10B0057040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Aditi Rohatgi

Address of Applicant :Aston Business School, Aston University Birmingham, UK Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Aditi Rohatgi

Address of Applicant :Aston Business School, Aston University Birmingham, UK Greater Noida -----

2)Dr. Savita Mohan

Address of Applicant :GNIOT Institute of Professional Studies Gr.Noida Greater Noida -----

3)Dr. Avijit Kumar Dey

Address of Applicant :GNIOT Institute of Professional Studies Gr.Noida Greater Noida -----

4)Dr. Himanshu Mittal

Address of Applicant :GNIOT Institute of Professional Studies Gr.Noida Greater Noida -----

5)Deepika Varshney

Address of Applicant :GNIOT Institute of Professional Studies Gr.Noida Greater Noida -----

6)Ritu Yadav

Address of Applicant :GNIOT Institute of Professional Studies Gr.Noida Greater Noida -----

7)Dr. Vijeyata Tegwal

Address of Applicant :GNIOT Institute of Professional Studies Gr.Noida Greater Noida -----

8)Akansha R Thakur

Address of Applicant :B. K. Birla College Kalyan Greater Noida - -----

9)Piyush Kumar

Address of Applicant :GNIOT Institute of Professional Studies Gr.Noida Greater Noida -----

10)Vaishali

Address of Applicant :Banasthali Vidyapith, Rajasthan Greater Noida -----

(57) Abstract :

A method for system and method for strategic brand management by a manager environment. A method for system and method for strategic brand management a by a manager environment, for monitoring compliance, said method comprising, a strategic brand management control unit acquires a scheduling indication, where the scheduling indication is used to instruct the strategic brand management control unit to perform lane planning on the emergency brands; the strategic brand management control unit acquires a travel route of the emergency brands; the strategic brand management control unit determines a fast driving lane according to the driving route; the strategic brand management control unit dispatches strategic brand management resources before the fast drive lane is occupied by the emergency brands is disclosed

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211029566 A

(19) INDIA

(22) Date of filing of Application :23/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED EARLY DETECTION OF CROP DISEASES USING SMART DEVICES

(51) International classification :G06K0009620000, G05B0013040000, G01N0021880000, G06K0009000000, G06N0020000000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)DR. VIRENDRA KUMAR SINGH

Address of Applicant :ASSOCIATE

PROFESSOR/BIOCHEMISTRY, RSM COLLEGE, DHAMPUR (BIJNOR),246761 Bijnor -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. VIRENDRA KUMAR SINGH

Address of Applicant :ASSOCIATE

PROFESSOR/BIOCHEMISTRY, RSM COLLEGE, DHAMPUR (BIJNOR),246761 Bijnor -----

(57) Abstract :

Artificial intelligence based early detection of crop diseases using smart devices is the proposed invention. The invention focuses on designing a framework of artificial intelligence to predict & detect the possible diseases that may attack a crop. The proposed invention utilizes smart devices such as High-resolution camera & data sets of precious year crop rotation to predict the quality of crop production.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/05/2022

(21) Application No.202211030106 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DEVELOPMENT OF EDUCATIONAL SYSTEMS USING A BLOCK CHAIN-BASED MODEL

(51) International classification :G06F0016220000, G06Q0010100000, H04L0009060000, G06Q0050200000, G06F0016270000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr M. Ravichand
Address of Applicant :Professor of English, Department of Basic Sciences and Humanities, Sree Vidyaniethan Engineering College, Tirupati -----
2)Aditi Chauha
3)Virendra Kumar Verma
4)Dr Uttam Vedu Nile
5)Shashi Punam
6)Dr Rupesh Ramesh Deore
7)Dr Amol Rameshwarrao Bhitara
8)Dr Sandip Subhash Bhavsar
9)Sanjeev Kumar
10)Deo Karan Ram
11)Ankit Jain
12)Ms Priyanka Aggarwal
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr M. Ravichand
Address of Applicant :Professor of English, Department of Basic Sciences and Humanities, Sree Vidyaniethan Engineering College, Tirupati -----
2)Aditi Chauhan
Address of Applicant :Assistant Professor, Department of Information Technology, Atharva College Of Engineering, Malad, Mumbai University, Mumbai -----
3)Virendra Kumar Verma
Address of Applicant :Director, Sustainplanet India Private Limited, Thane -----
4)Dr Uttam Vedu Nile
Address of Applicant :Assistant Professor, Department of Geography, P.S. G.V.P.Mandal's Arts, Commerce & Science College Shahada, Maharashtra -----
5)Shashi Punam
Address of Applicant :Associate Professor & Head Department of Social Work Sapt Sindhu Parisar-II, Dehra, Kangra Central University of Himachal Pradesh -----
6)Dr Rupesh Ramesh Deore
Address of Applicant :Assistant Professor, Department of Geography, G.T. Patil College Nandurbar, Maharashtra -----
7)Dr Amol Rameshwarrao Bhitara
Address of Applicant :Assistant Professor, Department of Geography, G.T.Patil College Nandurbar, Maharashtra -----
8)Dr Sandip Subhash Bhavsar
Address of Applicant :Assistant Professor, Department of Geography, G.T.Patil College Nandurbar, Maharashtra -----
9)Sanjeev Kumar
Address of Applicant :Research Scholar, School of Legal Studies and Governance Career Point University Hamirpur Himachal Pradesh -----
10)Deo Karan Ram
Address of Applicant :Associate Professor, Petroleum and Chemical Engineering, Nims University Rajasthan, Jaipur -----
11)Ankit Jain
Address of Applicant :Research Scholar, Amity University, Jaipur, Rajasthan -----
--
12)Ms Priyanka Aggarwal
Address of Applicant :A2Z Softech, Ghaziabad, UP, India Ghaziabad -----

(57) Abstract :
Cloud computing and blockchain technology were combined to create the current blockchain-based model. With the help of this invention, the inventor was able to come up with a strong and integrated system that will positively impact educational systems. The inventor was furious after going through this ordeal. The student database is being efficiently and rationally managed using Blockchain technology, which is being used in this research project. Since we're using the cloud infrastructure to back up the database, anyone in the world can access it no matter where they are. Information that the system requires is supplied by the user, and the desired results are returned by the system in return. A present invention is a powerful tool for improving educational institutions' development processes by making better use of student databases.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : A SYSTEM & METHOD FOR MANAGING BOOKS, ARTICLES, JOURNALS IN A LIBRARY SYSTEM BASED ON RFID, IOT & AI

(51) International classification :G06Q0010080000, G06K0019070000, G06K0017000000, H04Q0009000000, G06K0007100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gaurav Lodha

Address of Applicant :Associate Professor, Department of Commerce, Manipal University Jaipur -----

2)Sachikanta Dash**3)Surajit Mohanty****4)Bhabani Prasad Barik****5)Anjaneya Turai****6)Priyanka Dilip Waware****7)Aadesh Ajit Shinde****8)Varad Wadiyalwar****9)Nithesh Derin Joan O****10)Deo Karan Ram****11)Ankit Jain****12)Ms Priyanka Aggarwal**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gaurav Lodha

Address of Applicant :Associate Professor, Department of Commerce, Manipal University Jaipur -----

2)Sachikanta Dash

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, GIET University, Gunupur -----

3)Surajit Mohanty

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, DRIEMS, BPUT -----

4)Bhabani Prasad Barik

Address of Applicant :M. Tech Scholar, Department of Computer Science and Engineering, DRIEMS, BPUT -----

5)Anjaneya Turai

Address of Applicant :Student Data Science, Symbiosis Skills And Professional University, Pune -----

6)Priyanka Dilip Waware

Address of Applicant :UG Student, Computer Science University, Symbiosis Skills and Professional University, Kiwale, Pune -----

7)Aadesh Ajit Shinde

Address of Applicant :Student, Cyber security Symbiosis Skills and Professional University, Pune -----

8)Varad Wadiyalwar

Address of Applicant :Student, B. Tech cyber security, Symbiosis Skills and Professional University, Pune -----

9)Nithesh Derin Joan O

Address of Applicant :Student, Department of Computer Science, St Joseph's Institute of Technology, Old Mamallapuram Road, Sholinganallur, Chennai -----

10)Deo Karan Ram

Address of Applicant :Associate Professor, Petroleum and Chemical Engineering, NIMS University Rajasthan, Jaipur -----

11)Ankit Jain

Address of Applicant :Research Scholar, Amity University, Jaipur -----

12)Ms Priyanka Aggarwal

Address of Applicant :A2Z Softech, Ghaziabad, UP, India -----

(57) Abstract :

A system for keeping track of items in a storage area has been described in this disclosure. The ability to effectively manage and control the Library's growing size is becoming increasingly important for any business. If you don't have a dedicated system in place, managing thousands of products every day can be a daunting task. With this intelligent Library management system and method, you can monitor the Library at any location in a go-down or storeroom to improve the efficiency of stock retrieval and keep an eye on the amount of stock in the storeroom at all times. Wireless RFID readers and Internet of Things sensors are all part of the system. A wireless RFID reader is placed in a location where at least one store item with an RFID tag attached can be interrogated by at least one reader. As a result, the system includes an IoT and AI-based monitoring system, which is used to keep track of the library's stored and stocked items so that if there is any possibility of a missing article, the database is robustly maintained in the stores about Library. Having a well-managed library has been critical to the smooth operation of many businesses.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2022

(21) Application No.202211030166 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : THE IMPACT OF HIGH-PERFORMANCE WORK SYSTEMS AND HUMAN RESOURCES INFORMATION SYSTEM (HRIS) ON EMPLOYEE PERFORMANCE

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0010000000, G06Q0050220000, G06Q0040000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Nagendra Prasad Krishnam

Address of Applicant :Assistant Professor, School of Management and Commerce (SOMC), Malla Reddy University, Hyderabad -----

2)Dr N.Mohan

3)Sonu Kumar Katnoriya

4)Dr M.Sangeetha

5)Nidhi Amit Medhekar

6)Iskandar Muda

7)Vishwadeep Nirman

8)Harpreet Singh Bedi

9)Bindoo Malviya

10)Suresh Kumar M V

11)Ankit Jain

12)Ms Priyanka Aggarwal

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Nagendra Prasad Krishnam

Address of Applicant :Assistant Professor, School of Management and Commerce (SOMC), Malla Reddy University, Hyderabad -----

2)Dr N.Mohan

Address of Applicant :Director and Professor, Department of Management Studies, Vasavi Vidya Trust Group of Institutions, Salem. TN -----

3)Sonu Kumar Katnoriya

Address of Applicant :Asst. Professor (Faculty of Hospitality), GNA UNIVERSITY, Phagwara -----

4)Dr M.Sangeetha

Address of Applicant :Head & Assistant Professor, Department of Commerce, Shri Shankarlal Sundarbai Shasun Jain College, Chennai -----

5)Nidhi Amit Medhekar

Address of Applicant :Assistant Professor, Institute of Management Research, SPPU, Pune ----

6)Iskandar Muda

Address of Applicant :Accounting College, Universitas Sumatera Utara, Medan, North Sumatera, Indonesia -----

7)Vishwadeep Nirman

Address of Applicant :Assistant Professor, Media Studies, Chandigarh University, Mohali ----

8)Harpreet Singh Bedi

Address of Applicant :Assistant Professor, Department School of Electronics and Electrical Engineering, Lovely Professional University, Phagwara -----

9)Bindoo Malviya

Address of Applicant :Associate Professor, Teerthanker Mahaveer Institute of Management & Technology, Teerthanker Mahaveer University, Moradabad -----

10)Suresh Kumar M V

Address of Applicant :Research Scholar college of law Koneru lakshmaiah education foundation Guntur -----

11)Ankit Jain

Address of Applicant :Research Scholar, Amity University, Jaipur -----

12)Ms Priyanka Aggarwal

Address of Applicant :A2Z Softech, Ghaziabad, UP, India -----

(57) Abstract :

In today's fast-paced and competitive business environment, effective management of a company's human resources is an absolute necessity, as this is a well-established fact. Because the management of human resources is becoming an increasingly important aspect of running a business, it is now more important than ever before for companies to keep detailed records of the information that pertains to their employees and to generate reports that accurately reflect the company's current financial situation. When managers use a system known as a management information system, it enables them to acquire the data they require promptly to make decisions that are based on accurate information. This study aims to shed light on the significance of the Human Resources Information System within the organisation and to explain why so many businesses are moving away from tools for managing human resources that are based on paper and toward computer-based solutions for managing human resources. The goals of this study are to shed light on the significance of the Human Resources Information System within the organisation and to explain why.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : A SYSTEM & METHOD FOR EFFECTIVE HR MANAGEMENT USING MANAGEMENT INFORMATION SYSTEM (MIS)

(51) International classification :G06Q0010060000, G06Q0010100000, A61K0031192000, G06F0016245700, G06F0016242000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr Gouri Sharma

Address of Applicant :Assistant Professor, School of Management, JECRC University, Jaipur -----

2)Nagendra Prasad Krishnam**3)Dr.K.Suresh Kumar****4)Kawerinder Singh Sidhu****5)Navpreet Kaur****6)Gadadh Latha****7)Dhimen Jani****8)Rakesh Ahlawat****9)Divekar Swapnali Nitin****10)Suman Sahu****11)Ms Priyanka Aggarwal**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr Gouri Sharma

Address of Applicant :Assistant Professor, School of Management, JECRC University, Jaipur -----

2)Nagendra Prasad Krishnam

Address of Applicant :Assistant Professor, School of Management and Commerce (SOMC), Malla Reddy University, Hyderabad -----

3)Dr.K.Suresh Kumar

Address of Applicant :Associate Professor, MBA Department, Panimalar Engineering College, Varadarajapuram, Poonamallee, Chennai -----

4)Kawerinder Singh Sidhu

Address of Applicant :Research Scholar, Dehradun -----

5)Navpreet Kaur

Address of Applicant :Assistant Professor, University Institute of Media Studies, Chandigarh University, Mohali -----

6)Gadadh Latha

Address of Applicant :Management Department Bangalore -----

7)Dhimen Jani

Address of Applicant :Assistant Professor & head BBA, Department of Business Management, Dolat-Usha Institute of Applied Sciences and Dhuru-Sarla Institute of Management & Commerce Valsad -----

8)Rakesh Ahlawat

Address of Applicant :Assistant Professor, School of Hotel Management and Tourism, Desh Bhagat University, Mandi Gobindgarh -----

9)Divekar Swapnali Nitin

Address of Applicant :Assistant Professor, Department of Commerce, E. S. Divekar College, Varvand, Pune, Savitribai Phule Pune University Pune -----

10)Suman Sahu

Address of Applicant :Assistant Professor, Department of Management, Rungta College of Science and Technology, Chhattisgarh Swami Vivekanand Technical University, Bhilai -----

11)Ms Priyanka Aggarwal

Address of Applicant :A2Z Softech, Ghaziabad, UP, India Ghaziabad -----

(57) Abstract :

Management of human resources is becoming increasingly acknowledged as an essential component of businesses on a global scale. Maintaining employee data and producing accurate reports have evolved to become essential aspects of the day-to-day operations and long-term strategy of any company as a result of the growing significance of effective management of human resources and the expansion of business operations. These data can be properly and safely acquired, maintained, evaluated, and provided to Managers so that they can make decisions that are effective and timely. This is made possible with the assistance of the Management Information System. This research is in the process of shedding light on the significance of management information systems in the organisation and justifying the fact that so many businesses are moving away from tools for managing human resources that are based on a paper in favour of computer-based solutions.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2022

(21) Application No.202211030355 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : INTEGRATING STRATEGIC HUMAN CAPITAL AND STRATEGIC HUMAN RESOURCE MANAGEMENT WITHIN AN ORGANIZATION

(51) International classification :G06Q0010060000, G06Q0010100000, C12M0001120000, G09B0005000000, G09B0019180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Rajesh Gupta

Address of Applicant :Assistant Professor, School of Applied Management, Rajiv Gandhi Proudhyogiki Vishwavidyalaya Bhopal -----

2)Ashvine Kumar

3)Nishtha Sharma

4)Sweena Kashyap

5)Hareesh Kumar Barman

6)Namrata Kedia

7)Md. Faisal Khan

8)Iskandar Muda

9)Rohit Bansal

10)Deo Karan Ram

11)Ms Priyanka Aggarwal

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rajesh Gupta

Address of Applicant :Assistant Professor, School of Applied Management, Rajiv Gandhi Proudhyogiki Vishwavidyalaya Bhopal -----

2)Ashvine Kumar

Address of Applicant :Controller of Examinations, CCS University, Meerut -----

3)Nishtha Sharma

Address of Applicant :Assistant Professor, School of Commerce Management and Research, ITM UNIVERSITY Raipur, Chhattisgarh -----

4)Sweena Kashyap

Address of Applicant :Assistant Professor, School of Commerce Management and Research, ITM University, Raipur, Chhattisgarh -----

5)Hareesh Kumar Barman

Address of Applicant :Assistant Professor, School of Commerce Management and Research, ITM UNIVERSITY Raipur, Chhattisgarh -----

6)Namrata Kedia

Address of Applicant :Assistant Professor, School of Commerce Management and Research, ITM University Raipur, Chhattisgarh -----

7)Md. Faisal Khan

Address of Applicant :Assistant Professor, School of commerce Management and Research, ITM UNIVERSITY Raipur, Chhattisgarh -----

8)Iskandar Muda

Address of Applicant :Accounting College, Universitas Sumatera Utara, Medan, North Sumatera, Indonesia -----

9)Rohit Bansal

Address of Applicant :Assistant Professor, Department of Management Studies, Vaish College of Engineering, Rohtak -----

10)Deo Karan Ram

Address of Applicant :Associate Professor, Petroleum and Chemical Engineering, NIMS University Rajasthan, Jaipur -----

11)Ms Priyanka Aggarwal

Address of Applicant :A2Z Softech, Ghaziabad, UP, India -----

(57) Abstract :

The quality of a firm's human resources can hurt the market position of the organisation. Within the organisation, an investment in human capital is viewed as just that: an investment. The current iteration blends two distinct methods of human capital research, namely Strategic People Capital (SHC) and Strategic Human Resource Management, to serve as a tool that may illustrate the value that a firm's human capital contributes to the company (SHRM). Research that focuses on somewhat different components and levels of strategic management's usage as organisational human capital as integration opportunities can build on a solid foundation that is provided by the ever-evolving features and applications of strategic management in a variety of fields. These applications provide a solid foundation for research. When it comes to human resources, problems can be solved and organisations' human capital can become more effective and productive if strategic human resource management and SHRM collaborate.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211030364 A

(19) INDIA

(22) Date of filing of Application :26/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : LIVE TRACKING OF ELECTRIC VEHICLE RECHARGE METER'S USING ANDROID APPLICATION

(51) International classification	:B60L0053300000, B60L0053140000, B60L0053310000, B60L0053600000, B60L0053160000	(71)Name of Applicant : 1)Pradeep Kumar Singh Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, 13 KM Stone, NH 58, Ghaziabad, Uttar Pradesh, India 201006 ----- 2)Harsh Khatter 3)Abhinav Juneja Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Pradeep Kumar Singh Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, 13 KM Stone, NH 58, Ghaziabad, Uttar Pradesh, India Ghaziabad -----
(87) International Publication No	: NA	2)Harsh Khatter Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, 13 KM Stone, NH 58, Ghaziabad, Uttar Pradesh, India 201006 Ghaziabad -----
(61) Patent of Addition to Application Number	:NA	----- 3)Abhinav Juneja Address of Applicant :Department of Computer Science and Information Technology, KIET Group of Institutions, Delhi-NCR, 13 KM Stone, NH 58, Ghaziabad, Uttar Pradesh, India 201006 Ghaziabad -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is a system and method for live tracking of the electric vehicle recharge meter's using android application. In this system, user can check the availability of the recharging points at the nearest electric recharge station from the location of the user. When the users are travelling, on the way they have facility to find and locate the electric vehicle recharge center. The number of total slots and the number of available free slots for the electric vehicle charging can be seen on the android based user interface; the interface has the complete information of the recharging station with the contact details and location coordinates. Figure 1, figure 2 and figure 3 describe the details of the present invention.

No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211030470 A

(19) INDIA

(22) Date of filing of Application :27/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SMART LOCK HYBRID MAXILLOMANDIBULAR FIXATION (MMF) SYSTEM

(51) International classification :G07C0009000000, H04W0008080000, H01S0003067000, A61K0031537700, G16H0020400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SANTOSH DEEMED TO BE UNIVERSITY

Address of Applicant :NO 1, SANTOSH NAGAR
GHAZIABAD UTTAR PRADESH-201009, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. MANOJ GOYAL

Address of Applicant :DEPARTMENT OF ORAL AND
MAXILLOFACIAL SURGERY, SANTOSH DEEMED TO BE
UNIVERSITY, NO 1, SANTOSH NAGAR GHAZIABAD
UTTAR PRADESH-201009, INDIA -----

2)DR. MAYANK SINGAL

Address of Applicant :DEPARTMENT OF ORAL AND
MAXILLOFACIAL SURGERY, SANTOSH DEEMED TO BE
UNIVERSITY, NO 1, SANTOSH NAGAR GHAZIABAD
UTTAR PRADESH-201009, INDIA -----

(57) Abstract :

The present invention relates to a smart lock hybrid Maxillomandibular fixation (MMF) system which is economic. The system is quick, easy and saving valuable operating time during on application as well as on removal, and thus reduces the risk of needle stick type injury, subsequently the transmission of diseases and perforation of gloves and less patient comfort during the procedure when as compared with conventional arch bar. Maintenance of oral hygiene is not compromised while using present system.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211030758 A

(19) INDIA

(22) Date of filing of Application :30/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A WEB BASED SAGAI SADHI SYSTEM TO CHECK THE FRAUD IN MARRAIGES AND ITS APPLICATION THEREOF

(51) International classification :G06Q0020400000, H04M0015000000, H04L0012240000, G06F0021550000, H04L0012260000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)DEEPAK GUPTA

Address of Applicant :35, DARU BHONDELA BADA BAZAR, JHANSI, U.P.-284002, INDIA -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DEEPAK GUPTA

Address of Applicant :35, DARU BHONDELA BADA BAZAR, JHANSI, U.P.-284002, INDIA -----

(57) Abstract :

A web based system for online matrimonial services for easy and secured process of searching and contacting a candidate bride/groom. The instant invention also provides solution for matrimony-related services or online wedding service in order to check any kind of fraud in matrimonial related matter .Further the web based system comprises a premiums module adapted to access data regarding details of bride and bridegroom and missing person as well as their present status regarding engagement/marriages and divorce.

No. of Pages : 31 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211030801 A

(19) INDIA

(22) Date of filing of Application :30/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMART SYSTEMS INTEGRATED WITH UAV TO PREDICT THE ACCURATE CROP YIELD AND QUALITY OF CROP PRODUCED

(51) International classification :G06K0009620000, G06K0009000000, G06N0003040000, B64C0039020000, F21V0014020000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SIRIVELLA YAGNASREE Address of Applicant :RESEARCH SCHOLAR/LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB (INDIA) - 144411. Kapurthala ----- 2)M ANAND 3)DR ANUJ JAIN 4)NAVJOT KAUR 5)DR. SOMEET SINGH 6)DR. MANOJ KUMAR SHUKLA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)SIRIVELLA YAGNASREE Address of Applicant :RESEARCH SCHOLAR/LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB (INDIA) - 144411. Kapurthala ----- 2)M ANAND Address of Applicant :RESEARCH SCHOLAR/LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB (INDIA) - 144411. Kapurthala ----- 3)DR ANUJ JAIN Address of Applicant :PROFESSOR, LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB (INDIA) - 144411. Kapurthala ----- 4)NAVJOT KAUR Address of Applicant :ASSISTANT PROFESSOR, LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB (INDIA) - 144411. Kapurthala ----- 5)DR. SOMEET SINGH Address of Applicant :ASSOCIATE PROFESSOR, LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB (INDIA) - 144411. Kapurthala ----- 6)DR. MANOJ KUMAR SHUKLA Address of Applicant :ASSISTANT PROFESSOR, LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB (INDIA) - 144411. Kapurthala -----

(57) Abstract :

Smart systems integrated with UAV to predict the accurate crop yield and quality of crop produced is the proposed invention. The invention aims at integrating the systems of artificial intelligence with UAV to predict the crop yield accurately. The proposed invention focuses on analysing the quality of crops that are produced.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202211031006 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : MODEL FOR THE EXPORT ENHANCEMENT

(51) International classification	:C07K0014340000, A61K0036480000, G06Q0099000000, G06Q0050180000, A61K0047360000	(71)Name of Applicant : 1)Apeejay Stya University Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Ashok Garg Address of Applicant :Research Scholar at School of Management Sciences, Apeejay Stya University, Sohna, Gurugram, Haryana Gurugram -----
Filing Date	:NA	2)Dr. Sunil K. Roy Address of Applicant :Professor & Dean, School of Management Sciences, Apeejay Stya University, Sohna, Gurugram, Haryana Gurugram -----
(87) International Publication No	: NA	3)Dr. Nidhi Jain Address of Applicant :Assistant Professor at School of Management Sciences, Apeejay Stya University, Gurugram, Haryana Gurugram -----
(61) Patent of Addition to Application Number	:NA	4)Manish Sharma Address of Applicant :Assistant Professor at School of Management Sciences, Apeejay Stya University, Gurugram, Haryana Gurugram -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides a method and model for the enhancement of paper export from India with special reference to Iran. The disclosure of the invention suggests for a comprising a procedure of the suggested approach, wherein analysis of a plurality of dependent and independent variables like prices, quality, packaging, bilateral trade mechanism & services identified as independent variables; whereas, export performance identified as dependent variables; characterised by the moderating effect of business promotion & diplomacy & historic relations between India and Iran. The method further comprises of a plurality of variables that assist in the development of the exports; further, understanding how product prices effect the Iranian customers; how the quality of product effects the buyer's buying decision; how the product packaging effects buyer's decision making and how much the exporter's services matter for the Iranian importer/client.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202211031016 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : ROUND ROBIN ALGORITHM WITH THRESHOLD

(51) International classification :G06F0009480000, G06F0011340000, H04M0003523000, G06F0013220000, G05D0011130000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Apeejay Styta University Address of Applicant :Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Manpreet Singh Sehgal Address of Applicant :School of Engineering & Technology, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- 2)Nandini Bansal Address of Applicant :School of Engineering & Technology, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- 3)Saloni Dhingra Address of Applicant :School of Engineering & Technology, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- 4)Ashish Bansal Address of Applicant :School of Engineering & Technology, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- 5)Pransh Rastogi Address of Applicant :School of Engineering & Technology, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

(57) Abstract :

A round robin algorithm with threshold comprising the steps of: step 1: find the threshold time and obtain its ceiling value threshold time $(T) = +3$; where $3n =$ dividing factor n - No of processes; step 2: arrange all the jobs in ascending order w.r.t to their burst time in the ready queue; step 3: pick the first/next job from the ready queue (Shortest Job) and compare it with the threshold time; step 4: Check the queue for any new process; The processes are treated with equal priority. A fixed time slice, also known as time quantum, is assigned to every process sequentially as it arrives in the ready queue. The algorithm boasts of better resource utilization and response time, on the other, the increased waiting time and turnaround time is one of the few disadvantages.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031028 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN IOT AND BLOCKCHAIN-BASED SYSTEM FOR ENHANCING COMPUTER NETWORK SECURITY

(51) International classification :H04L0029060000, H04L0029080000, G06N0020000000, G06N0005040000, G06Q0020400000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Sanjay Kumar Sonkar Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Kamla Nehru Institute of Physical and Social Science, Sultanpur (UP), India ----- ----- 2)Dr. Mohit Kumar Bhadla 3)Ankit Jain 4)Ms. Poonam 5)Dr. Vanraj Batukbha vaghela 6)Shiv Veer Singh Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sanjay Kumar Sonkar Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Kamla Nehru Institute of Physical and Social Science, Sultanpur (UP), India ----- ----- 2)Dr. Mohit Kumar Bhadla Address of Applicant :Head of the Department, Department of Computer Engineering, Ahmedabad Institute of Technology, Ahmadabad ----- 3)Ankit Jain Address of Applicant :Engineering, Global Logic Ltd., Greater Noida – 201304, India ----- 4)Ms. Poonam Address of Applicant :Research Scholar, Department of Computer Science and Engineering, University Institute of Engineering & Technology, Maharshi Dayanand University, Rohtak, 124001, Haryana, India ----- 5)Dr. Vanraj Batukbha vaghela Address of Applicant :Principal, Merchant institute of Diploma studies, Piludara, Mehsana, Gujarat 384001 ----- 6)Shiv Veer Singh Address of Applicant :Assistant Professor, Iimt College Of Engineering, Greater Noida -----

(57) Abstract :

The present invention relates to an IOT and block chain based system for enhancing computer network security. The system includes receiving a requests from client devices to avail a responses from services running on servers; determining a URL pattern for each of the requests based on URL associated with that request; determining a request data signature for each of the plurality of requests or a response data signature for each of the plurality of responses based on a set of request parameters associated with that request or based on a set of response parameters associated with that response, respectively, using a first machine learning model; and determining an authenticity of each of the plurality of requests based on the URL pattern and the data signature associated with that request, or an authenticity of each of the plurality of responses based on the data signature associated with that response.

No. of Pages : 6 No. of Claims : 2

(54) Title of the invention : VISION TRANSFORMERS FOR BREAST CANCER CLASSIFICATION FROM THERMAL IMAGES

(51) International classification :A61B0005000000, G06T0007000000, G01N0025720000, C12Q0001688600, A61B0005010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Mr. Lalit Garia**

Address of Applicant :Assistant professor, Department of Electronics and communication Engineering, B.T. Kumaon Institute of Technology, Dwarahat, Uttarakhand - 263653, India --

2)Dr. M.Hariharan**3)Ms. Rachana Arya****4)Dr. Ajit Singh****Name of Applicant : NA****Address of Applicant : NA****(72)Name of Inventor :****1)Mr. Lalit Garia**

Address of Applicant :Assistant professor, Department of Electronics and communication Engineering, B.T. Kumaon Institute of Technology, Dwarahat, Uttarakhand - 263653, India --

2)Dr. M.Hariharan

Address of Applicant :Associate professor, Department of Electronics Engineering, National Institute of Technology, Uttarakhand, Srinagar(Garhwal) - 246174 -----

3)Ms. Rachana Arya

Address of Applicant :Assistant professor, Department of Electronics and communication Engineering, B.T. Kumaon Institute of Technology, Dwarahat, Uttarakhand - 263653, India --

4)Dr. Ajit Singh

Address of Applicant :Professor, Department of CSE, B.T. Kumaon Institute of Technology, Dwarahat, Uttarakhand - 263653, India -----

(57) Abstract :

Breast cancer is the leading reason for cancer-related fatality among women. Timely diagnosis can improve the survival rate of women suffering from breast cancer. Thermography is a non-contact and non-invasive imaging technique extensively used in the field of breast cancer detection. Thermography is studied as an efficient screening tool capable to detect breast cancer earlier than the traditional mammography methods. The computer-aided system can escalate the rate of diagnosis, treatment, and survival of the patient. In recent times, Vision Transformer (ViT) which is developed on self-attention within image patches, exhibited a great future to be a replacement of CNNs. In this analysis, ViT is utilized to classify breast thermal images for the first time using two different ViT models. The results are presented as classification accuracy and Area under the Curve (AUC) metrics. The results indicate that the ViT models show resembling efficiency with or even better than the CNNs for breast thermal images classification.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031055 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : NOVEL 4-AMINOQUINOLINE DERIVATIVES METHOD AND USES THEREOF

(51) International classification :G16B0015000000, G16B0050000000, C07D0405120000, G16B0035000000, G16C0020600000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Apeejay Stya University

Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Mukesh Kumar Kumawat

Address of Applicant :School of Pharmaceutical Sciences, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana-122001 Gurugram -----

(57) Abstract :

A Novel 4-Aminoquinoline derivatives method and uses thereof comprising the steps of: a) preparation of Protein; b) preparation of Ligand; c) setup ligand-protein docking calculations. The docking study of 15 compounds of 4-aminoquinoline derivatives is performed in the binding pocket of Oxidoreductase protein (1ldg.pdb) by using the Ligand fit module within the docking server. The compounds 5,9,14 have high antimalarial activity and very low binding energies for Oxidoreductase protein (1ldg.pdb). The setup ligand-protein docking calculations comprising the steps of: a) a protein and a ligand were selected from the library; b) Advanced parameters are modified during the simulation, such as number of runs, number of evaluations etc.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202211031056 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : ULTRA-WIDE BAND HYBRID ANTENNA SENSOR FOR WBAN APPLICATIONS

(51) International classification :H01Q0009040000, H01Q0001500000, H01Q0001380000, H01Q0001220000, H01P0007100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Apeejay Stya University

Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Parikshit Vasisht

Address of Applicant :School of Engineering and Technology, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana-122001 Gurugram -----

2)Taruna Parashar

Address of Applicant :Research scholar, Department of Electronics and Communication Engineering, J.C. Bose University of Science and Technology YMCA, Faridabad, India Faridabad -----

3)Sudhakar Ranjan

Address of Applicant :School of Engineering and Technology, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana-122001 Gurugram -----

4)Atul Kathait

Address of Applicant :School of Biosciences, Apeejay Stya University, Gurugram, India Gurugram -----

5)Ravi Chandra

Address of Applicant :Research scholar, Department of Electronics and Communication Engineering, BIT, MESRA, Ranchi, India Ranchi -----

6)Neela Chattoraj

Address of Applicant :Department of Electronics and Communication Engineering, BIT, MESRA, Ranchi, India Ranchi -----

7)Jaimini Shah

Address of Applicant :Research Scholar, School of Engineering and Technology, Apeejay Stya University, Gurugram, India Gurugram -----

(57) Abstract :

Ultra-Wide Band Hybrid Antenna Sensor for WBAN Applications comprising dimensions of L1 of 26, L5 of 9, W1 of 18, W5 of 6.75, L2 of 9.6, h1 of 1.6, W2 of 4.8, h2 of 10.6, L3 of 5, r1 of 4.5, W3 of 2, r2 of 3.75, L4 of 7.4, t of 1, W4 of 1.4, L of 11. The rectangular Dielectric Resonator Antenna of material Alumina ceramic having the relative permittivity of 9.8 is instituted upon the substrate. The antenna has a peak value of 5.5 dBi obtained in the operating bandwidth. The antenna partial ground plane is optimized to 11mm leading to a bandwidth of 6.4 GHz. The antenna offers a peak radiation efficiency of 99%, which makes it a strong candidate to be used as a high-resolution sensor. In the rectangular dielectric resonator in order to achieve ultra-wide bandwidth of 9.1 GHz.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031057 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : NOVEL HYBRID TRYPTANTHRIN METHOD BASED TOPOISOMERASE INHIBITORS

(51) International classification :C07D0487040000, B82Y0005000000, G16C0020500000, G16B0015000000, A61K0047610000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Apeejay Stya University

Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Subhabrata Kar

Address of Applicant :School of Biosciences, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurgaon, Haryana-122103, India Gurugram -----

2)Kapil Kumar

Address of Applicant :School of Pharmaceutical Sciences, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurgaon, Haryana-122103, India Gurugram -----

(57) Abstract :

A novel hybrid Tryptanthrin method based Topoisomerase Inhibitors comprising the steps of: a) Protein structure preparation, b) Grid generation, c) Ligand preparation, d) Docking protocol, e) Validation and Standardization of docking protocol. The number of hydrogen bond donors (NH and OH) and the number of hydrogen bond acceptors (O and N atoms) in the designed analogues are in accordance with Lipinski's rule of five i.e. less than 5 and 10 respectively. The TPSA of proposed ligands is observed in the range of 34.38-106.22 Ao and is well below the limit of 160 Ao. the percentages of absorption for the ligands calculated from TPSA ranged between 72.355 and 97.139% and indicated good oral bioavailability.

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031062 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : RICE STRAW-BASED BIOMATERIALS FOR TABLET COATING AND A METHOD THEREOF

(51) International classification	:G01N0021780000, D21H0027080000, G01N0033500000, B32B0029060000, B01J0020320000	(71)Name of Applicant : 1)Apeejay Stya University Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Narender Yadav Address of Applicant :School of Pharmaceutical Sciences, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana Gurugram -----
(87) International Publication No	: NA	2)Manoj Kumar Sharma Address of Applicant :School of Pharmaceutical Sciences, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana Gurugram -----
(61) Patent of Addition to Application Number	:NA	3)Anupama Diwan Address of Applicant :School of Pharmaceutical Sciences, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana Gurugram -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A rice straw-based biomaterials for tablet coating and method thereof comprising the steps of: a) whatman filter paper is coated with 10% CTA CHCl₃, solution by dipping method; b) dried CTA-coated filter paper is fixed at one side of two-sided open tube; c) 2% Aq. solution of Aspirin drug was added from another side of tube; d) now, tube dipped in 0.1 N HCl solution in a beaker in up-right position; e) drug didn't cross the filter paper (release) in solution up to 2 hours; f) after 2 hours, a tube is dipped in buffer medium of pH 6.8; g) now, drug crosses the filter paper within 15 minutes. The invention provides a low-cost and highly efficient coating material that leads to the commercialization of the technology and its application in various pharmaceutical formulations.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031072 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : VALIDATION METHOD FOR CAFFEINE TABLET DOSAGE FORMATION BY U.V. SPECTROSCOPY AND ITS USES THEREOF

(51) International classification :C08J0003090000, G01N0001280000, A61K0009107000, A61K0009200000, A61K0031522000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Apeejay Styta University

Address of Applicant :Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Mukesh Kumar Kumawat

Address of Applicant :School of Pharmaceutical Sciences, Apeejay Styta University, Sohna-Palwal Road, Sohna, Gurugram, Haryana-122001 Gurugram -----

(57) Abstract :

A validation method for Caffeine Tablet Dosage formation by U.V. Spectroscopy and its uses thereof comprising the steps of: 1) preparation of stock solution: a) preparation of a standard stock solution of caffeine is done by dissolving the 100 mg caffeine dosage form in 100 ml methanol; 2) Preparation of working solution: b) From the above stock solution 10 ml is transferred into 100 ml volumetric flask; c)volume are made up to the mark with distilled water to make 100 µg/ml; d) Then the sample is scanned with UV-Vis Spectrophotometer in the range 200-400 nm against distilled water as blank and the wavelength corresponding to maximum absorbance is noted which is its max i.e. at 270 nm. The proposed method is found to be simple, accurate, precise, simple, sensitive, robust, and cost-effective.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031073 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : IMPROVED OCCUPANCY GRID MAPPING METHOD FOR SPECULAR ENVIRONMENT MAPPING

(51) International classification	:G01S0013860000, G01S0013870000, G01C0021320000, G01S0007295000, G06N0007020000	(71)Name of Applicant : 1)Apeejay Stya University Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Moin Uddin
Filing Date	:NA	Address of Applicant :Chief Mentor Research, Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----
(62) Divisional to Application Number	:NA	2)KS Nagla
Filing Date	:NA	Address of Applicant :Dr. BR Ambedkar National Institute of Technology Jalandhar, India-144011 Jalandhar -----
		3)Dilbag Singh
		Address of Applicant :Dr. BR Ambedkar National Institute of Technology Jalandhar, India-144011 Jalandhar -----

(57) Abstract :

The improved occupancy grid mapping method for specular environment provides a average percentage accuracy using the proposed rule is obtained 87.8%, however without implementation of fuzzy technique the accuracy is obtained 81.2% and algorithm 6.6% improvement has been obtained; The proposed method is considered as highly effective and efficient and can be used for other sensors such as radar and laser sensor. The invention provide a map, that is 6.6% more accurate with the use of proposed fuzzy logic technique after discard of specular reflection. The invention provides the average computational time is reduced by approximately 16.5% at different specular environments.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031074 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : NOVEL ANTIDEPRESSANT AND ANALGESIC COMPOSITION AND ITS METHOD OF SYNTHESIS

(51) International classification :A61K0036906800, A61K0036610000, A01N0065280000, A61K0036515000, A61K0031121000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)MR. SHAHBAZ KHAN Address of Applicant :Pharmacology Research Laboratory, Pharmacy Academy, IFTM University, Moradabad,U.P. ----- ----- 2)Dr. Arun Kumar Mishra 3)Mohammad Ashif Khan 4)Mohammad Vaseem 5)Dr. Gayyurul Islam 6)Mr. Amit Kumar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)MR. SHAHBAZ KHAN Address of Applicant :Pharmacology Research Laboratory, Pharmacy Academy, IFTM University, Moradabad,U.P. ----- ----- 2)Dr. Arun Kumar Mishra Address of Applicant :Professor, Central Facility of Instrumentation, Pharmacy Academy, IFTM University, Moradabad, U.P, India. 244102 Moradabad ----- 3)Mohammad Ashif Khan Address of Applicant :Principal, R. B College of Pharmacy, Etmadpur, 282006, Agra Agra ----- 4)Mohammad Vaseem Address of Applicant :Jahangeerabad Institute Technology, Barabanki, India. 225203 Barabanki ----- 5)Dr. Gayyurul Islam Address of Applicant :Professor, Pharmacy Academy, IFTM University, Moradabad, U.P, India. 244102 Moradabad ----- 6)Mr. Amit Kumar Address of Applicant :Assistant Professor , School of Pharmaceutical Sciences, IFTM University, Moradabad, 244102 Moradabad -----

(57) Abstract :

The present invention belongs to the field of pharmaceutical science. More, particularly the invention pertains to a herbal formulation capable of analgesic and antidepressant effect, the formulation comprising therapeutically effective amounts of the plants selected from Eucalyptus (Eucalyptus globulus) and Ginger (Zingiber officinale) alone or in synergistic composition thereof and acceptable carriers. The said herbal formulation is administered in dosages ranging from 10mg/kg to 250 mg/kg of body wt of Albino rats.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031079 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD FOR PATH TRAVERSAL USING TRANSACTION MINIMIZATION ALGORITHM

(51) International classification	:H04N0019510000, A61F0002280000, A61M0025000000, G06F0016245300, G01C0021200000	(71)Name of Applicant : 1)Apeejay Stya University Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Sudhakar Ranjan Address of Applicant :School of Engineering and Technology, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana-122001 Gurugram -----
(87) International Publication No	: NA	2)Parikshit Vasisht Address of Applicant :School of Engineering and Technology, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana-122001 Gurugram -----
(61) Patent of Addition to Application Number	:NA	3)Deepti Thakral Address of Applicant :School of Engineering and Technology, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurugram, Haryana-122001 Gurugram -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The method comprising the session steps of: 1) Access path is A-B. There is direct path from A to B; 2) Access path is A-C-F-N-S-T; wherein the user must have backtracked to reach T i.e. user would have used page N to reach page T; hence complete path would be A-C-F-N-S-N-T; 3) access path is A-D-K. There is direct path from A to D to K; 4) access path is A-D-K-Q. There is direct path from A,D,K,Q; 5) Access path is A-D-J-K; wherein the user must have backtracked to reach k i.e. user would have used page D to reach page K; hence complete path would be A-D-F-J-D-K. The method for path traversal using transaction minimization algorithm comprising a backward references and second forward references; wherein a backward reference is the revisit of previously visited resource; wherein a forward reference is the visit of a new resource in user session path.

No. of Pages : 21 No. of Claims : 2

(54) Title of the invention : WIDEBAND RDRA COVERING DIELECTRIC RESONATOR, MATCHING DIELECTRIC SLAB, COPPER GND PLANE, CHAMFERED EDGES

(51) International classification :H01Q0001380000, H01Q0001480000, H01Q0009280000, H04B0007185000, H01P0007100000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Apeejay Stya University Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Parikshit Vasisht Address of Applicant :School of Engineering and Technology, Apeejay Stya University, Gurugram, Haryana, India Gurugram --- 2)Dr. Neela Chattoraj Address of Applicant :Department of Electronics and Communication Engineering, Birla Institute of Technology, Mesra, Ranchi Ranchi ----- 3)Prof. Sudhakar Ranjan Address of Applicant :School of Engineering and Technology, Apeejay Stya University,Gurugram, Haryana, India Gurugram ---- 4)Dr. Atul Kathait Address of Applicant :School of Biosciences, Apeejay Stya University Gurugram ----- 5)Anuranjan Sharma Address of Applicant :School of legal Studies, Apeejay Stya University Gurugram -----

(57) Abstract :

A wideband RDRA with a chamfered external conducting parallel standing strip comprising dielectric resonator, matching dielectric slab -FR4, sub- FR4 substrate, copper GND plane, microstrip line, chamfered edges, Lext, Lint; wherein wideband RDRA has a broad bandwidth ranging from 6.5 to 13.1 GHz; wherein wideband RDRA has a return loss of 245 dB at 7.0 GHz and the impedance bandwidth up to 75%; Wherein the low value of VSWR suggests that the antenna is broadly lossless. The broadside pattern of the antenna also fulfills the broadband requirements of the FS/FSS band; wherein RDRA can be used extensively in fixed wireless services operating on 7 GHz and satellite television TV Relay system (FS/FSS) operating in the range of 10.67 GHz.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031089 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : UNDERSTANDING THE IMPORTANCE OF ACCREDITATION AND QUALITY EDUCATION

(51) International classification	:G06Q0050220000, G06Q0050200000, G09B0005000000, G06Q0050260000, G06Q0020380000	(71)Name of Applicant : 1)Apeejay Stya University Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Prof. Sunil Kumar Roy
Filing Date	:NA	Address of Applicant :School of Management Sciences, Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----
(62) Divisional to Application Number	:NA	2)Prof. Varuna Tyagi
Filing Date	:NA	Address of Applicant :School of Management Sciences, Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----
		3)Dr. Rachna Bansal
		Address of Applicant :Assistant Professor, School of Business Studies, Sharda University greater noida -----

(57) Abstract :

Accreditation is a process in which an official review body usually nominated by the government awards ranking to an Institution when it has completed requirements/ standards. The accreditation is a quality assurance process that ensures that the institutions meet a specific set of standards set forth by an external accreditation body. It is the need of the hour to have a good accreditation ranking that indicates adherence to quality parameters. If the institute does not have a predetermined standard and does not fulfil the qualification parameters, it will be very difficult for that higher education institute to sustain. There are specific purposes of accreditation - the first is maintaining admissions and academic requirement of institution and second is to safeguard it against educationally and socially harmful pressures. Accreditation also gives a global recognition to the institution. Accreditation is a measure of education and infrastructure standards that a higher education institute can certainly provide.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031094 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD FOR E-LEARNING RESOURCES

(51) International classification :G09B0019000000, G09B0023280000, G06F0016245700, G09B0005020000, G16Z0099000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Apeejay Styta University

Address of Applicant :Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof. Sunil Kumar Roy

Address of Applicant :School of Management Sciences, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

2)Prof. Varuna Tyagi

Address of Applicant :School of Management Sciences, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

3)Dr. Rupendra Prakash Yadav

Address of Applicant :Associate Professor, School of Law, Sharda University greater noida -----

(57) Abstract :

Online technology evolved, allows all aspirants to find entirely new answers to what people learn, how people learn, where people learn and when people learn. The technology opted enables transformers and student to access specialized material well beyond textbooks that can bridge the distance, space and time. The UGC and MHRD being a controlling body of education sector has also launched may virtual/online plate form for student VIZ online depositories, e-books, Digital Library and many other teaching learning material, education channel through DTH and Radio etc.

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031102 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS FOR QUALITY EVALUATION OF ALBENDAZOLE CHEWABLE TABLETS

(51) International classification :A61K0009000000, A61K0031418400, A61K0009200000, A61K0009500000, G07C0005080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Apeejay Stya University

Address of Applicant :Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Mukesh Kumar Kumawat

Address of Applicant :School of Pharmaceutical Sciences, Apeejay Stya University, Sohna - Palwal Road, Sohna - 122103, Gurugram Gurugram -----

(57) Abstract :

The invention provides methods for the quality evaluation of albendazole chewable tablets. The aim of the present invention is to investigate the physicochemical equivalence of three brands of tablets containing Albendazole. The tablets evaluated for uniformity of weight, friability, hardness, thickness, dissolution and assay. All the three brands of the tablets passed the Indian Pharmacopoeia (IP) standards for all in vitro evaluation tests. There was no significant difference in the amount of Albendazole released from the different brands. These results indicate that the tablets of Albendazole are manufactured and marketed from WHO GMP certified Indian companies.

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202211031134 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : APPLICATION OF QUAD RIDGED HORNED ANTENNA FOR BROADBAND SPECTRUM

(51) International classification :H01Q0013020000, H01Q0013040000, H01Q0001280000, H01P0011000000, H01Q0013200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Sivakumar Ponnusamy

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, SRM Institute of Science and Technology, Delhi-NCR Campus, Delhi - Meerut Expy, Modinagar, Uttar Pradesh 201204 Modinagar -----

2)Dr. Ashwini N

3)Dr.K.Sivanandam

4)Mr.Nitin Ishwarlal Bhopale

5)Dr. Sunil Nilkanth Pawar

6)Dr. Pravin Patil

7)Ms.Shubhangini Ugale

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sivakumar Ponnusamy

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, SRM Institute of Science and Technology, Delhi-NCR Campus, Delhi - Meerut Expy, Modinagar, Uttar Pradesh 201204 Modinagar -----

2)Dr. Ashwini N

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, BMS Institute of Technology and Management, Yelahanka, Bengaluru, Karnataka 560064 Bengaluru -----

3)Dr.K.Sivanandam

Address of Applicant :Associate Professor, Department of ECE, M. Kumar as a my College of Engineering, Karur Karur -----

4)Mr.Nitin Ishwarlal Bhopale

Address of Applicant :Assistant Professor, Department of Electronics & Computer Engineering, Sanjivani College of Engineering, Kopergaon 423603 Ahmed Nagar - -----

5)Dr. Sunil Nilkanth Pawar

Address of Applicant :Associate Professor, Department of Electronics & Computer Engineering, JNEC, Aurangabad 431001 431001 -----

6)Dr. Pravin Patil

Address of Applicant :Department of Mechanical Engineering, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India, 248002 Dehradun -----

7)Ms.Shubhangini Ugale

Address of Applicant :Assistant professor, Electronics and Telecommunication Engineering, G H Raisoni Institute of Engineering and Technology, Hingana-wadi link road, MIDC, Nagpur, Maharashtra-440028, India Nagpur -----

(57) Abstract :

A dual- or quad-ridged broadband horn antenna, as described herein, may have a pair of conductive antenna components that are placed opposite one another to steer an electromagnetic wave in a longitudinal direction via the horn antenna. In some circumstances, the pair of conductive antenna components could have inner surfaces that are considerably convex and exterior surfaces that are correctly formed. The convex inner surfaces may, in general, serve the role of directing or guiding the energy that is emitted without altering the pattern that is meant to be radiated. The broadband horn antenna may additionally comprise a pair of tapered extension elements, each of which is attached to an outer surface of a different one of the antenna elements at one end of each latter. This is done so that the antenna maintains the desired radiation pattern. Surface currents may be forced to travel exclusively along the inner surfaces of the antenna elements by using a magnetic substance that can be placed on at least part of the elements of the antenna under certain circumstances. It is possible, under some circumstances, for the inner surfaces to have longitudinal grooves, the purpose of which is to prevent surface currents from flowing in a direction that is perpendicular to the longitudinal direction.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031143 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESS OF CHECKING EFFECTIVENESS OF ONLINE TEACHING

(51) International classification :G06Q0050200000, G09B0023280000, G09B0007000000, H04N0013239000, G06K0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Apeejay Styta University

Address of Applicant :Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof. Sunil Kumar Roy

Address of Applicant :School of Management Sciences, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

2)Prof. Varuna Tyagi

Address of Applicant :School of Management Sciences, Apeejay Styta University, Sohna - Palwal Road, Sohna - 122103, Gurugram, Haryana Gurugram -----

3)Dr. Shradha

Address of Applicant :School of Humanities & Social Sciences, Sharda University Greater Noida -----

(57) Abstract :

COVID-19 has forced schools, colleges and higher education institutes to (temporarily) close the premises and adopt online platforms currently available for teaching-learning. In online delivery of lectures, is content really an accurate alternative of the in-person classroom teaching-learning Related studies on the subject provide clues and pointers about what we should do to support the students who are most likely to struggle in online teaching-learning settings. The growth of virtual teaching-learning has been rapid in past years but comparatively after March 2020, it was like a world behind the curtain of virtualization/digitization. Majority of researchers believe that online teaching is less effective in comparison with in-person classes, but in both cases (online and in-person), it has also been observed that teachers make immense efforts to motivate and engage all students for learning and exploring the subjects they teach.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202211031264 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DOOR STOPPER FOR REFRIGERATOR

(51) International classification :F25D0023020000, A61M0005140000, F25D0023040000, B60R0021233800, B29C0048210000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Baba Farid College of Engineering and Technology

Address of Applicant :Village Deon, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

2)Baba Farid College

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Manpreet Singh

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Baba Farid College, Village Deon, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

2)Mr. Karan Beri

Address of Applicant :Student, 6th Sem, Department of Mechanical Engineering, Baba Farid College, Village Deon, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

3)Dr. Sunil Kumar Paswan

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Baba Farid College, Village Deon, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

4)Dr. Tejinder Pal Singh Sarao

Address of Applicant :Professor, Department of Mechanical Engineering, Baba Farid College, Village Deon, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

(57) Abstract :

The present disclosure relates to a door stopper (100) to stabilize a door (152) of a refrigerator (150). The door stopper (100) includes a first portion (102) to be affixed on top portion of a cabin of the refrigerator (150); a second portion (104) as an arm extended from the first portion (102) to a third portion (106); and a third portion (106) of circular configuration to be deployed in the door (152) of the refrigerator (150). The third portion (106) is configured to provide a mechanism to stop the opened door at different angles such that the door does not hit the objects nearby.

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031265 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SMART WORK STATION WITH ADJUSTBLE FOOTREST

(51) International classification :G06Q0010100000, A47C0016020000, A47B0021000000, C04B0035630000, A47C0007720000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University,

Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India 144411. Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mohamad Bin Mohamad Ali

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

2)Dr. Tarlochan Singh

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

3)Mandeep Singh

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

(57) Abstract :

The present invention relates to novel a table top (104) having a projector (105) connected with projector sheet (101); connected to magnetic board (102) with plurality of compartments (103) for keeping accessories; the base is having an adjustable foot rest (107) with button system with solar battery (106) for moving the foot rest and entire workstation is supported on telescopic legs for folding and unfolding. The works station is especially designed and made for recycled materials. The said invention serves dual purpose as solves the problem of space as well as solid waste generation. The said work station is cost effective and due to effective use of solar energy is useful for indoor and outdoor functioning. The said invention is suitable for homes, offices, schools or even shops where computers are being used.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031266 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL FORMULATION FOR NEONATAL SPESIS

(51) International classification :A61K0047100000, A61K0031430000, A61K0031050000, A61K0047260000, A61K0031198000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University,

Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India 144411. Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Pandit, Bijay Raj

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

2)Vyas, Ashish

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

3)Vyas, Manish

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

(57) Abstract :

The present invention discloses the novel formulation for the neonatal sepsis treatment. Neonatal sepsis is a clinical syndrome, emerge as a result of bacterial blood stream infection in newborns. It is life threatening emergency and requires immediate treatment. This Polyherbal syrup may be used along with allopathic treatment and can also continue after recovery to prevent from recurrence of bacterial infection helps in preventing the death of newborns

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031285 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL AUTHENTICATION SYSTEM FOR VARIABLE PLATFORMS

(51) International classification :H04L0029060000, G06F0021310000, G06F0021460000, G06F0021320000, G06Q0020400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Bhimtal Campus

Address of Applicant :Sattal Road, Bhimtal- Uttarakhand, India Nainital -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Ankur Singh Bist

Address of Applicant :Associate Professor, Graphic Era Hill University, Bhimtal Bhimtal -----

2)Ravindra Singh Koranga

Address of Applicant :Associate Professor, Graphic Era Hill University, Bhimtal Bhimtal -----

3)Dikendra Verma

Address of Applicant :Assistant Professor,Graphic Era Hill University, Bhimtal Campus Bhimtal -----

(57) Abstract :

In today's world authentication is a vital part of our day to day life. Whenever we use any technology, authentication is involved. Authentication is required at many levels like smartphone, bio-metric attendance, logging into email , social media, bank accounts etc. Authentication provides us with security and keeps our data and account safe. Most of the current authentication system uses a user name and password to validate a user. However, there are some drawbacks with such authentication system. The user need to remember these login details. Now each user has several accounts so it becomes extremely difficult to remember user name and password for each account. Most of the users use same username and password for different accounts which puts the security at risk. To handle these challenges, we propose a novel authentication system for variable platforms. It will have two components a face recognition system and a voice based input. The recognition system will replace the username. Whenever a user wants to login, he will simply put his face across the screen. The system will immediately validate the user. Then, an OTP will be sent to the registered mobile number of the user. Now, if the user inputs the OTP by typing then it will be inconvenient for him. So, instead there will be a voiced based input. The user will read the OTP received in his mobile and the OTP will be fed into the system by the voice based input. So, finally the user will be authenticated. This technology can be added to any device with camera and mic facility. So mobiles and laptops can easily integrate this system. The advantage of this technology is that user need not remember several usernames and passwords. Also, it will reduce the time to login as user will not type anything and all input is handled by the system.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031286 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL PEST INFECTION DETECTION SYSTEM

(51) International classification :G06Q0050020000, G06T0007000000, G06Q0010060000, G06Q0010100000, G01N0033000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Dehradun Campus

Address of Applicant :510, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rahul Chauhan

Address of Applicant :Assistant Professor, CSE Department, Graphic Era Hill University, Dehradun Campus Dehradun -----

2)Shradha Sharma

Address of Applicant :CSE Department, Graphic Era Hill University, Dehradun Campus Dehradun -----

3)Kritika Rawat

Address of Applicant :CSE Department, Graphic Era Hill University, Dehradun Campus Dehradun -----

4)Raghav Kumar Tonk

Address of Applicant :CSE Department, Graphic Era Hill University, Dehradun Campus Dehradun -----

(57) Abstract :

India is called the Land of Farmers, agriculture makes 17% of our GDP and 60% of employment of our country. We designed a solution to inform farmers about the health of plants based on the image of leaves. The major focus of our project is pest detection, it has 2 features: identifying the plant health and the disease's name. A camera module collects the image and sends it to the database for checking the health, then the disease's name is predicted. After the detection, the data is sent to the farmer as a warning. This model will help in the early detection of pests, saving crops.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031287 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMART HAND GLOVES FOR CORONAVIRUS PROTECTION

(51) International classification :A41D0019000000, C12Q0001700000, A01N0063000000, C12N0007000000, G06F0021560000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Dehradun Campus

Address of Applicant :Graphic Era Hill University, Dehradun Campus, 510, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vijay Kumar

Address of Applicant :Professor in Physics, Graphic Era Hill University, Dehradun Dehradun -----

2)Dr. Shipra Gupta

Address of Applicant :Associate Professor, School of Management, Graphic Era Hill University, Dehradun Dehradun ---

3)Mr. Jasmeet Kalra

Address of Applicant :Department of Mechanical Engineering, Graphic Era Hill University Dehradun. Dehradun -----

(57) Abstract :

Right now, the whole world is suffering from coronavirus. After some months, it comes with new variants like delta, delta plus, omicron etc. We can destroy this virus by breaking the chain. This invention will kill the virus immediately and can stop the expansion of the virus by living beings. This invention is very easy to use and can be used just like a pair of hand gloves. If we are not ON the battery button of the product, it will work as simple hand gloves which we use in winter. In general, about a 2-meter area is affected around an infected patient. Many times, the viruses are available in the atmosphere for many hours. If any person comes in contact with the virus, it may infect the people. If we feel that a virus may be available in this area, we can use the innovation in that area to kill the viruses. There will be no harm if we use the product and the virus are available in the atmosphere.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202211031288 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A TEABAG SQUEEZING APPARATUS AND METHODS THEREOF

(51) International classification :A61J0001030000, A47G0021100000, C11B0001060000, B65D0085808000, H01F0041000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Dehradun

Address of Applicant :Graphic Era Hill University, Dehradun
Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dinesh Puri

Address of Applicant :Graphic Era Hill University, Dehradun
Dehradun -----

2) Gaurav Joshi

Address of Applicant :Graphic Era Hill University, Dehradun
Dehradun -----

3)Prashant Gahtori

Address of Applicant :Graphic Era Hill University, Dehradun
Dehradun -----

4) Amit Kumar Singh

Address of Applicant :Graphic Era Hill University, Dehradun
Dehradun -----

5)Tarun Kumar Dhiman

Address of Applicant :Graphic Era Hill University, Dehradun
Dehradun -----

(57) Abstract :

The present invention relates to a teabag squeezing apparatus. The apparatus comprises a plurality of complementary elements at an anterior end of the apparatus, said plurality of complementary elements including at least an upper element (A) and a lower element (B), the upper element (A) and the lower element (B) being configured to receive a teabag. The upper element (A) and the lower element (B) being connected to a compression spring reservoir (C) and positioned at a longitudinal geometric centre of said upper element and lower element. The manual pressing components (E, D) being provided at a posterior end of said apparatus to enable application of a force for squeezing a tea bag.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031313 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A REAL TIME WILD ANIMAL ALERT SYSTEM FOR HILLY AREAS

(51) International classification :G06K0009000000, G06K0009620000, G08B0003100000, A61K0009000000, H04N0007180000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Graphic Era Hill University, Bhimtal Campus Address of Applicant :Sattal Road, Bhimtal- 263156, Uttarakhand, India Bhimtal ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. Devendra Singh Address of Applicant :Assistant Professor /SOC / Graphic Era Hill University Bhimtal Bhimtal ----- 2)Mr. Himanshu Pant Address of Applicant :Assistant Professor /SOC / Graphic Era Hill University Bhimtal Bhimtal ----- 3)Mr. Janmejey Pant Address of Applicant :Assistant Professor /SOC / Graphic Era Hill University Bhimtal Bhimtal ----- 4)Dr. Bhupesh Rawat Address of Applicant :Associate Professor /SOC / Graphic Era Hill University Bhimtal Bhimtal ----- 5)Dr. Manoj Chandra Lohani Address of Applicant :Professor /SOC / Graphic Era Hill University Bhimtal Bhimtal ----- 6)Mr. Manoj Kumar Singh Address of Applicant :Assistant Professor /SOC / Graphic Era Hill University Bhimtal Bhimtal ----- 7)Mahesh Chand Joshi Address of Applicant :Lab Assistant /SOC / Graphic Era Hill University Bhimtal Bhimtal -----

(57) Abstract :

The present invention provides a Deep learning based computer vision system to classify wild animals in the specific premises. The system tracks all the real time images of wild animals using 360° night vision camera and predict image category based on previously trained data then send notification to government authority that takes the necessity action. The present system is for protection from the attacks of the wild animals and thus minimizing the probable loss to the individual. The system detects intrusion around the field and captures the image of the intruder and classifying them using image processing. Taking suitable action based on the type of the intruder.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031314 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A WEARABLE SPEECH TO TEXT DEVICE FOR HEARING IMPAIRED

(51) International classification	:G10L0015260000, G06F0003010000, G10L0021020800, G09B0021000000, H04N0021643000	(71)Name of Applicant : 1)Graphic Era Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun ----- ----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)Rahul Chauhan Address of Applicant :Assistant professor, CSE Dept, GEHU Dehradun ----- -----
(61) Patent of Addition to Application Number	:NA	2)Neelam Address of Applicant :CSE Dept, GEHU Dehradun ----- -----
Filing Date	:NA	3)Gunjan Dimri Address of Applicant :CSE Dept, GEHU Dehradun ----- -----
(62) Divisional to Application Number	:NA	4)Armaan Tiwari Address of Applicant :CSE Dept, GEHU Dehradun ----- -----
Filing Date	:NA	

(57) Abstract :

The present invention provides a speech to text device for assisting people who have hearing loss or who needs enhanced hearing ability. The device consists of 2 special features which includes speech to text conversion and haptic feedback when any sort of noise is heard. If the identified sound is horn then the wearable device vibrates and if the sound is identified as speech, then it send to the cloud through raspberry pi and there the voice recognition algorithm takes special command as input through microphone and convert it into the text form and it send to the display so that the deaf person can read it.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202211031315 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN IOT BASED SPRAY MOP FOR CEILING AND CEILING EQUIPMENTS CLEANING

(51) International classification	:A47L0013580000, A47L0013200000, B01J0020260000, E04B0009020000, C23C0004020000	(71)Name of Applicant : 1)Graphic Era Hill University, Bhimtal Campus Address of Applicant :Sattal Road, Bhimtal- 263156, Uttarakhand, India Bhimtal ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Mr. Himanshu Pant Address of Applicant :Assistant Professor, SOC, Graphic Era Hill University Bhimtal Bhimtal -----
Filing Date	:NA	2)Mr. Janmejay Pant Address of Applicant :Assistant Professor, SOC, Graphic Era Hill University Bhimtal Bhimtal -----
(87) International Publication No	: NA	3)Mr. Devendra Singh Address of Applicant :Assistant Professor, SOC, Graphic Era Hill University Bhimtal Bhimtal -----
(61) Patent of Addition to Application Number	:NA	4)Dr. Manoj Chandra Lohani Address of Applicant :Professor, SOC, Graphic Era Hill University Bhimtal Bhimtal -----
Filing Date	:NA	5)Dr. Bhupesh Rawat Address of Applicant :Associate Professor, SOC, Graphic Era Hill University Bhimtal Bhimtal -----
(62) Divisional to Application Number	:NA	6)Mr. Manoj Kumar Singh Address of Applicant :Assistant Professor, SOC, Graphic Era Hill University Bhimtal Bhimtal -----
Filing Date	:NA	

(57) Abstract :

The present invention relates to an IoT based spray mop for ceiling and ceiling equipment's cleaning. The regular mops are very common to clean the flat surface but for walls, ceiling and ceiling fans. It is very tough to clean the rough surface and dust with the help of regular mops. That is why spray mops provides an easier, more economical and more convenient way of mopping the ceiling and ceiling fans than using a regular mop and bucket set. But using the normal spray mops is also a laborious task to clean the ceiling area. As per the present invention, when the dust is detected using dust sensing sensors then an indicating LED light glows. The water is sprayed out onto the ceiling areas using a spray button on the handle, so user don't need to use a bucket to re-wet the mop.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031316 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN AUTOMATED SYSTEM TO TURN ON INDICATORS IN VEHICLE

(51) International classification :B62D0015020000, B60Q0001140000, B60Q0001400000, B60Q0009000000, B60Q0001340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Bhimtal Campus

Address of Applicant :Sattal Road, Bhimtal- 263156, Uttarakhand, India Bhimtal -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Lalit Mohan

Address of Applicant :Assistant Professor, Gehu, Bhimtal Bhimtal -----

2)Ravindra Singh Koranga

Address of Applicant :Assistant Professor, Gehu, Bhimtal Bhimtal -----

(57) Abstract :

The present invention provides a system that automatically turn on indicators whenever a vehicle makes a turn based on steering angle. While driving any vehicle the driver has to be extremely attentive and focused. Even a slight mistake on part of the driver can lead to serious accidents. So, some rules need to be followed while driving to avoid such accidents. However, sometimes a driver may forget to turn on the indicators while turning the vehicle and the vehicle coming from behind may collide with the vehicle making a turn. To avoid such situations, the present system automatically turn on indicators whenever a vehicle makes a turn. Thus, if the wheel is turned to right by a certain angle the right indicator turn on and if the wheel is turned left by a certain angle the left indicator will turn on.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202211031317 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN ELECTRONIC EYE BELT FOR VISUALLY IMPAIRED PERSON

(51) International classification :A61H0003060000, A61F0009080000, G09B0021000000, G01S0015930000, G08B0013196000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Dehradun Campus

Address of Applicant :510, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rahul Chauhan

Address of Applicant :CSE Dept, GEHU Dehradun -----

2)Gursakshi Kaur

Address of Applicant :CSE Dept, GEHU Dehradun -----

3)Tanmay Devshali

Address of Applicant :CSE Dept, GEHU Dehradun -----

4)Chandra Shekhar Singh Rana

Address of Applicant :CSE Dept, GEHU Dehradun -----

5)Anjali Khantwal

Address of Applicant :CSE Dept, GEHU Dehradun -----

(57) Abstract :

The present invention discloses an electronic eye belt to help the blind people with outdoor and indoor travel. The electronic eye belt consists of a camera and raspberry pi attached together, Bluetooth earphones, 3 ultrasonic sensors which helps in the detection of the object which is present as an obstacle to the blind person, it has a pi camera which is useful in recognising the object in front of users, the image of the object captured and analysed, after analysing the feedback information (audio) is conveyed to the users through Bluetooth earphones. It helps the blind people to map their world using the sense of hearing. It also comprises emergency button which is connected to the cloud and sends SMS to the known ones in case of any emergency.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031338 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYSTEM FOR EVALUATING DESIGN AND PERFORMANCE OPTIMIZATION OF CMOS MEMRISTOR HYBRID CIRCUITS

(51) International classification :G06N0003063000, G06N0003080000, H01L0021660000, B60L0050160000, G06F0003010000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Bhawna Kankane Address of Applicant :Research Scholar, School of ICT, Gautam Buddha University, Greater Noida Greater Noida ----- 2)Aarti maam srm 3)Jaswinder Singh Bhatia 4)Supreet Singh 5)Abhishek Sharma 6)Surendra Singh Chauhan 7)Dr. Manikandan R Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Bhawna Kankane Address of Applicant :Research Scholar, School of ICT, Gautam Buddha University, Greater Noida Greater Noida ----- 2)Aarti maam srm Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, KCC Institute of and Management, Ghaziabad Ghaziabad ----- 3)Jaswinder Singh Bhatia Address of Applicant :Assistant Professor, Computer Science and Engineering, Chandigarh University, Mohali Mohali ----- 4)Supreet Singh Address of Applicant :Assistant Professor, Electronics and communication Engineering, Chandigarh University, Mohali Mohali ----- 5)Abhishek Sharma Address of Applicant :Assistant Professor, Computer Science and Engineering, Chandigarh University, Mohali Mohali ----- 6)Surendra Singh Chauhan Address of Applicant :Assistant Professor, School of Computer Science and Engineering, Galgotias University, Greater Noida Greater Noida ----- 7)Dr. Manikandan R Address of Applicant :Assistant Professor, Department of Computer Science & Technology, Madanapalle Institute of Technology & Science Madanapalle -----

(57) Abstract :

The present invention discloses a system for evaluating design and performance optimization of CMOS Memristor hybrid circuits. The system includes, but not limited to, a feed-forward single-layer perceptron (SLP) network configured to verify the operation of an integrated chip; a plurality of binary patterns configured in the SLP training and testing, wherein the SLP has a plurality of inputs (corresponding to the multiple pixels in the image and a bias term) and a plurality of outputs, with the input and output neurons fully connected with a predefined synaptic weights, wherein the neuron with the highest output is identified as the winner and used to classify the corresponding class.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202211031374 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FEDERATED LEARNING METHOD FOR EMPOWERED INTERNET OF VEHICLES IN SMART CITY SENSING

(51) International classification :H04L0029080000, G06F0021620000, G06Q0030020000, H04W0040020000, G16H0010600000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)G.L. Bajaj Institute of Technology and Management Address of Applicant :Plot No 2, knowledge park III, Greater Noida Uttar Pradesh 201306, India Greater Noida ----- ---- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Shashank Awasthi Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 2)Rudra Pratap Ojha Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 3)Satya Prakash Yadav Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 4)Mahaveer Singh Naruka Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 5)Sachin Yadav Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ----

(57) Abstract :

A federated learning method for empowered internet of vehicles in smart city sensing comprising the steps of: a) data are generated by consumer devices; b) data become the key to building better and personalized Internet of Vehicles models to deliver personalized services to maximally enhance user experiences; c) a unique way to build such personalized models without intruding users' privacy; d) opens up a brand-new computing paradigm for Internet of Vehicles; e) the Internet of Vehicles is moving from clouds and data centers to end devices; f) privacy-preserving mechanism to effectively leverage. Reinforcement learning has been used to optimally control IoV devices supporting the expansion of Internet connection beyond the usual standard devices.

No. of Pages : 12 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031400 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN APPARATUS FOR SPREADING MICROBIAL CULTURE ON A PETRI DISH

(51) International classification	:C12M0001220000, C12M0001000000, C12M0003000000, C12Q0001040000, C12M0001260000	(71)Name of Applicant : 1)Swami Rama Himalayan University Address of Applicant :Swami Ram Nagar, Jolly Grant Dehradun Uttarakhand India 248016 Dehradun ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr. Vivek Kumar Address of Applicant :Associate Professor, Himalayan School of Bio-Sciences, Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant Dehradun Uttarakhand India 248016 Dehradun -----
Filing Date	:NA	2)Mr. Sandeep Kumar Address of Applicant :Assistant Professor, Mechanical Engineering Department, Himalayan School of Science & Technology, Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant Dehradun Uttarakhand India 248016 Dehradun -----
(87) International Publication No	: NA	3)Dr. Chandra Shekhar Nautiyal Address of Applicant :Principal, Himalayan School of Bio-Sciences, Swami Rama Himalayan University, Swami Ram Nagar, Jolly Grant Dehradun Uttarakhand India 248016 Dehradun -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an apparatus that is convenient to use and provide a practical solution to the provision of properly spreader plates which does not cause damage to microbial growth medium and uniformly distributes the microbial inoculum to enable isolation of single microbe or cell, without causing physical impaction injury. The procedure has utility in evenly spreading the microbial culture on a soft microbiological growth containing petri dishes without damaging the agar surface in a reproducible manner.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031403 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : FUSED DEPOSITION MODELING PROCESS AND SYSTEM

(51) International classification :B29C0064118000, B33Y0030000000, B29C0064106000, B33Y0010000000, H05B0006440000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. Rishi Kumar Prajapati

Address of Applicant :Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar Uttarakhand India Haridwar

2)Mr. Praveen Kumar Pandey

3)Mr. Kapil Dev Sharma

4)Mr. Yogesh Kumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Rishi Kumar Prajapati

Address of Applicant :Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar Uttarakhand India Haridwar

2)Mr. Praveen Kumar Pandey

Address of Applicant :Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar Uttarakhand India Haridwar

3)Mr. Kapil Dev Sharma

Address of Applicant :Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar Uttarakhand India Haridwar

4)Mr. Yogesh Kumar

Address of Applicant :Department of Mechanical Engineering, Faculty of Engineering and Technology, Gurukula Kangri (Deemed to be University), Haridwar Uttarakhand India Haridwar

(57) Abstract :

FUSED DEPOSITION MODELING PROCESS AND SYSTEM Accordingly, embodiments herein disclose process and system of fused deposition modeling an object comprising the steps of fused deposition modeling the object of a first fusible material; fused deposition modeling a plurality of heating elements from a second fusible material comprising electromagnetic radiation absorptive material; exposing one of the plurality of heating elements to electromagnetic radiation. The fused deposition modeling the object and the fused deposition modeling the heating element are performed by depositing layers of the object and the heating element alternatively.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031413 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : FOG ASSISTED INTELLIGENT INTRUSION DETECTION/PREVENTION SYSTEM FOR IOT NETWORKS

(51) International classification :H04L0029060000, H04L0012240000, G06F0021550000, G06N0003040000, H04L0012715000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)G. L. Bajaj Institute of Technology and Management Address of Applicant :Plot No 2, knowledge park III, Greater Noida Uttar Pradesh 201306, India Greater Noida ----- ---- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mahaveer Singh Naruka Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 2)Shashank Awasthi Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 3)Satya Prakash Yadav Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 4)Rudra Pratap Ojha Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ---- 5)Sachin Yadav Address of Applicant :G.L. Bajaj Institute of Technology and Management (GLBITM), Greater Noida- 201306, Affiliated to AKTU, Greater Noida, U.P., India. Greater Noida ----- ----

(57) Abstract :

Fog Assisted Intelligent Intrusion Detection/Prevention System for Iot Networks comprising smart grid (2), microgrid (3), software-defined networking (SDN) (4), Fog (5), intelligent layer (6), feature selector (7), recurrent neural network (8), multi-layer perception (9), alternate decision tree (10); wherein IDS having two parts Signature-based IDS and Anomaly-based IDS. The proposed IDPS for timely identification of various attack models in near real-time for effective neutralization of threats using SDN control. The primary benefit of an Intrusion Detection System (IDS) is to ensure IT personnel and is notified when an attack or network intrusion might be taking place. The Network Intrusion Detection System (NIDS) monitors both inbound and outbound traffic on the network, as well as data traversing between systems within the network.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202211031416 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : HOSPITAL SHIP SYSTEM IN INDIA

(51) International classification :A63F0003000000, F41H0013000000, A61K0036740000, G06Q0010000000, G99Z0099000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Ms. Pragya Dwivedi

Address of Applicant :Shri Krishna Balram Mandir, Madhwacharya Ashram Parikrama Marg, Vrindavan, Mathura Uttar Pradesh India Mathura -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ms. Pragya Dwivedi

Address of Applicant :Shri Krishna Balram Mandir, Madhwacharya Ashram Parikrama Marg, Vrindavan, Mathura Uttar Pradesh India Mathura -----

(57) Abstract :

Hospital Ship System in India In the progression of time, the value of a human life has increased manifold. Technological advancement has erased any barriers with mass destruction of human lives. However, the potent force of human destruction is now supplied by the hatred of human beings – that is war. Lives lost during the warfare are a lost cause. Above all, it has been found that the percentage of people died due to injury is relatively much higher than those who died on the spot. With this notion came the necessity of medical core. The land medical core is dominated by the physical hospitals, they are being assisted by the ‘mobile medical army personnel’. On the other hand, the loss of life in marine warfare is still a valid conjecture. Hospital ships are designed for this enigma. Their mobility serves not only marine warzone, but also covers up the coastal areas – saving countless lives. The paradox lies when we consider its endless potentiality against Indian context. Irrespective of immense advance in warzone, India still has a lot of scope of advancement in the ‘saving lives’. This paper is thus a proposal of how Indian can excel in this zone too, by achieving the necessity of saving lives through Hospital Ships.

No. of Pages : 7 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031429 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD FOR WIRELESS CHARGING OF A BATTERY

(51) International classification	:H02J0007020000, H02J0007000000, H02J0050100000, B60L0053120000, H02J0050200000	(71)Name of Applicant : 1)G. L. Bajaj Institute of Technology and Management Address of Applicant :Plot No 2, knowledge park III, Greater Noida Uttar Pradesh 201306, India Greater Noida ----- ---
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Aditya Kumar Singh
Filing Date	:NA	Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----
(62) Divisional to Application Number	:NA	2)Dr. Amrita Rai
Filing Date	:NA	Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----
		3)Mr. Puneet Mishra
		Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----
		4)Dr. Sanjeev Sharma
		Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----

(57) Abstract :

The system (1) and method for wireless charging of a battery comprise back-end subsystem (2), front end subsystem (3), rectenna (6), magnetron (7), mobile app (8). The invention provides a wireless charging solution, where users can make a payment and charge their electric vehicles while traveling, which overcoming the need for charging stations. The invention provides a mobile app (8) for wireless charging comprising a target device (8A), a device setup (8B), payment process (8C), current status (8D), cross-checking (8E), charging (8F). The hardware configuration is done in the battery itself where the charging of a battery is controlled by these switching circuits. The switching circuit provides a switching option for wired and wireless charging based on the command provided in the mobile application (front-end design) by entering the mobile number to know which device needs to be charged.

No. of Pages : 24 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031457 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : EXPERIMENTAL INVESTIGATION AND EFFECTS OF BIOMEDICAL IMPLANTS ON HUMAN BODY BY IN VITRO CORROSION STUDIES

(51) International classification :A61F0002300000, A61L0027340000, G06Q0050220000, A61F0002380000, A61L0027500000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr. Vaibhav Trivedi Address of Applicant :Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- 2)Mr. Kuldeep Dubey 3)Mr. Mohammad Javed 4)Mr. Mayank Bharadvaj 5)Mr. Prashant Kumar 6)Mr. Vivek Shankhdhar Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Vaibhav Trivedi Address of Applicant :Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- 2)Mr. Kuldeep Dubey Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- 3)Mr. Mohammad Javed Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- 4)Mr. Mayank Bharadvaj Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- 5)Mr. Prashant Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad ----- 6)Mr. Vivek Shankhdhar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad -----

(57) Abstract :

The invention relates to the preventing us from engaging in any physical activities. A comparative investigation and its impact on biomedical implants, as well as certain clinical and other test data like in vitro corrosion studies obtained after the implants have been removed from the human body. Two conditions have been taken i.e. one is at the time of implant fixation in the human body and second is at the time when the implant is explanted from the human body after number of years. The implant is a replacement of the fracture or damaged part and it performs the function like original or replaced part. In this study we have investigated many factors which affect the life of implant and the problems which a person faces after the fixation of the implant. The selection of the implant is based on the compatibility with the human body.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031461 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : FORMULATION AND OPTIMIZATION OF DELAYED RELEASE MICROSPHERES OF LORNOXICAM USING NATURAL AND SYNTHETIC POLYMERS

(51) International classification	:A61K0009500000, A61K0009000000, A61K0009160000, A61K0008730000, D01F0001100000	(71)Name of Applicant : 1)Mr. Ashwin Kumar Saxena Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code:244102 Moradabad ----- 2)Dr. Navneet Verma 3)Dr. Sushil Kumar
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Mr. Ashwin Kumar Saxena
Filing Date	:NA	Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code:244102 Moradabad -----
(62) Divisional to Application Number	:NA	2)Dr. Navneet Verma
Filing Date	:NA	Address of Applicant :Professor and Dean, Pharmacy Academy, IFTM University, Moradabad, Moradabad, Uttar Pradesh, Pin Code:244102 Moradabad -----
		3)Dr. Sushil Kumar
		Address of Applicant :Professor & Director, School of Pharmaceutical Sciences, IFTM University, Moradabad, Uttar Pradesh, Pin Code: 244102 Moradabad -----

(57) Abstract :

The present invention relates to the preparation and evaluation of lornoxicam loaded alginate-okra gum or ethyl cellulose microspheres. The microspheres were prepared by using sodium alginate with natural polymer and synthetic polymers in different ratios by Ca²⁺ induced ionic-gelation cross-linking. The formulations were optimized on the basis of drug release. The formulated microspheres were characterized for particle size, percentage drug entrapment efficiency, micromeritic properties, percentage swelling index and in-vitro drug release study. The microspheres exhibited good flow properties and also showed high percentage drug entrapment efficiency. In-vitro drug release data obtained were fitted to various release kinetic models to access the suitable mechanism of drug release. In conclusion, drug release over a period of time could be achieved from these prepared microspheres, and potentially used for intestinal drug delivery.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202211031482 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : GOODS DELIVERY HUMAN EFFORTS REDUCING APP PLATFORM SYSTEM AND METHOD THEREOF

(51) International classification :G06Q0040040000, G06Q0030080000, G06Q0010020000, G01B0011000000, G06Q0020080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)G. L. Bajaj Institute of Technology and Management

Address of Applicant :Plot No 2, knowledge park III, Greater Noida Uttar Pradesh 201306, India Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prakhar Gupta

Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----

2)Ankit Singh

Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----

3)Prabhat Kumar Rai

Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----

4)Anuj Yadav

Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----

5)Dr. Rajiv Kumar

Address of Applicant :G.L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Uttar Pradesh, 201306 Greater Noida -----

(57) Abstract :

A Goods delivery Human Efforts Reducing App platform system and method thereof comprises a memory, a processor operably coupled to the memory, and a database-enabled server, a user operably coupled to the memory and the processor, the user is configured to perform a method comprising: choose the market place, using the mobile application. The invention provides a real traveler option which is a person who travels to do his own work but and willing to complete other's work. The invention provides a virtual traveler option in which a person who wants someone else to complete their work on their behalf in exchange for a little service fee.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031567 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A TRIFUNCTIONAL ELECTROCATALYST AND PROCESS FOR SYNTHESIS THEREOF

(51) International classification :C25B0011040000, C25B0001040000, H01M0004900000, C12N0015100000, H01M0004860000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)MANAS KUMAR GHORAI Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- 2)KAMAL KRISHNA KAR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- 3)SUGANDHA SINGH Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur -----

(57) Abstract :

A trifunctional electrocatalyst and process for synthesis thereof. The trifunctional electrocatalyst includes the conjugated organic polymer (Co@TBB-phen) comprising tribromobenzene (TBB) and phenanthroline (phen). The trifunctional electrocatalyst exhibits trifunctionality by delivering oxygen reduction, hydrogen evolution, and oxygen evolution at low overpotentials. The invention also provides the process for synthesis of the trifunctional electrocatalyst. The trifunctional electrocatalyst is synthesized using non-toxic, inexpensive, and abundantly available materials. The process deletes utilization of expensive and scarce noble metals. The process provided by the present invention is cost-effective, simple, rapid, and scalable.

No. of Pages : 71 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031672 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A BLACKBODY CUM DRY BLOCK TEMPERATURE CALIBRATOR FOR CONTACT AND NON-CONTACT TYPE TEMPERATURE SENSORS

(51) International classification :G01J0005000000, G01K0015000000, G01J0005520000, B01L0007000000, G06K0019077000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Tempsens Instruments (I) Pvt Ltd.

Address of Applicant :B188A, B169, Road No. 5, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan – INDIA -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rathi Vinay Virendra

Address of Applicant :B188A, B169, Road No. 5, Mewar Industrial Area, Madri, Udaipur - 313003, Rajasthan – INDIA
Udaipur -----

(57) Abstract :

A blackbody cum dry block temperature calibrator for contact & non-contact temperature sensors comprises an insulated chamber (1) which accommodates an isothermal chamber (2). The isothermal chamber (2) comprises a cartridge heater (8) and a thermal block (11) having a cavity (7) in which blackbody block (12) or dry block (13) is inserted for calibration of the non-contact or contact type temperature calibration respectively. To calibrate the contact type or non contact type temperature sensor, dry block (13) or blackbody block (12) respectively inserted in the cavity (7) of the thermal block. The present invention provides high stability, high accuracy and uniform temperature and takes minimum time to reach the set value of temperature.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF AN ATENOLOL CONTAINING TRANSDERMAL DRUG DELIVERY SYSTEM

(51) International classification :A61K0009200000, A61K0009000000, G01N0030900000, A61K0031165000, G01N0021356300
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Prof. (Dr.) N. G. Raghavendra Rao
 Address of Applicant :Professor, KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Muradnagar, Ghaziabad, U.P. - 201206, India -----
2)Mr. Chandra Prakash Dwivedi
3)Mr. Dhananjay Rai
4)Mr. Pandya Yogi Umeshbhai
5)Ms. Akanksha Sa
6)Ms. Kajal Patel
7)Mr. Harish Gupta
8)Mr. Pushpendra Kumar
9)Navneet Kumar Verma
10)Ms. Makwana Rajeshreebahen Pravinkumar
11)Mr. Aakash Gupta
12)Mr. Chitranjan Nayak
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Prof. (Dr.) N. G. Raghavendra Rao
 Address of Applicant :Professor, KIET School of Pharmacy, KIET Group of Institutions, Delhi-NCR, Muradnagar, Ghaziabad, U.P. - 201206, India -----
2)Mr. Chandra Prakash Dwivedi
 Address of Applicant :Principal, Bodhni Devi Pharmacy Diploma College Post Box No.-10, Village – Pandripani Hajariguda, Pamela, Jagdalpur, Distt. Bastar (C.G)-494001 -----
3)Mr. Dhananjay Rai
 Address of Applicant :Associate Professor, Institute of Pharmacy, H.P.C.G College, Bawan Beegha Campus, Azamgarh Road, Varanasi, U.P - 221002 -----
4)Mr. Pandya Yogi Umeshbhai
 Address of Applicant :Research Scholar & Asst Professor, School of Pharmaceutical Sciences, Atmiya University, Rajkot, Gujarat- 360005, India -----
5)Ms. Akanksha Sa
 Address of Applicant :Asst. Professor, Raigarh College of Pharmacy, Kotrapali, Jurda, Near DPS, Raigarh, C. G. 496001 -----
6)Ms. Kajal Patel
 Address of Applicant :Asst. Professor, Raigarh College of Pharmacy, Kotrapali, Jurda, Near DPS, Raigarh, C. G. 496001 -----
7)Mr. Harish Gupta
 Address of Applicant :Principal, Raigarh college of Education(Pharmacy), Siyarpali, Raigarh, Chhattisgarh - 496001 -----
8)Mr. Pushpendra Kumar
 Address of Applicant :Asst. Professor, Apollo college of Pharmacy, Anjora, Durg.- 491001 ----
9)Navneet Kumar Verma
 Address of Applicant :Assistant Professor, Buddha Institute of Pharmacy, GIDA, Gorakhpur, U.P.- 273209, India -----
10)Ms. Makwana Rajeshreebahen Pravinkumar
 Address of Applicant :Research Scholar,Faculty of Pharmacy, Dharmsinh Desai University, Nadiad, Gujarat – 387001, India -----
11)Mr. Aakash Gupta
 Address of Applicant :Asst. Professor, Raigarh College of Pharmacy, Kotrapali, Jurda, Near DPS, Raigarh, C. G. - 496001 -----
12)Mr. Chitranjan Nayak
 Address of Applicant :Asst. Professor, Raigarh College of Pharmacy, Kotrapali, Jurda, Near DPS, Raigarh, C. G.- 496001 -----

(57) Abstract :

Although Atenolol has a low oral bioavailability, several matrix-type transdermal films containing Atenolol were developed with the goal of studying the effect of polymers on release characteristics. Cellulose acetate butyrate polyvinyl pyrrolidone , ethyl cellulose , and hydroxy propyl methyl cellulose were chosen as polymers . Solvent casting was used to create the films, which were made up of several polymer blends. The polymer matrices were assessed for suitability using physicochemical methods. Fourier transform infrared spectroscopy and thin layer chromatography were used to investigate the interaction between various components of the matrices. The Franz diffusion cell was used to conduct in-vitro permeation tests on perfect films. The findings revealed the amount of medication released in a controlled and steady state.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/06/2022

(21) Application No.202211031793 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYSTEM FOR IMPROVING A PERFORMANCE OF DROWSINESS AND FATIGUE DETECTION

(51) International classification :G08B0021060000, A61B0005180000, G06K0009000000, B60W0040080000, H04W0004800000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GLA University, Mathura

Address of Applicant :GLA University, 17km Stone, NH-2, Mathura-Delhi Road, CHAUMUHAN MATHURA UTTAR PRADESH India 281406 Chaumuhan -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. HITENDRA GARG

Address of Applicant :CEA Department, GLA University, Mathura 17km Stone, NH-2, Mathura-Delhi Road, CHAUMUHAN MATHURA UTTAR PRADESH India 281406 Chaumuhan -----

2)DR. SHASHI SHEKHAR

Address of Applicant :CEA Department, GLA University, Mathura 17km Stone, NH-2, Mathura-Delhi Road, CHAUMUHAN MATHURA UTTAR PRADESH India 281406 Chaumuhan -----

3)DR. RAKESH KUMAR

Address of Applicant :CEA Department, GLA University, Mathura 17km Stone, NH-2, Mathura-Delhi Road, CHAUMUHAN MATHURA UTTAR PRADESH India 281406 Chaumuhan -----

4)CHESHTAA BHARDWAJ

Address of Applicant :CEA Department, GLA University, Mathura 17km Stone, NH-2, Mathura-Delhi Road, CHAUMUHAN MATHURA UTTAR PRADESH India 281406 Chaumuhan -----

(57) Abstract :

The present invention relates to a system (100) for improving a performance of drowsiness and fatigue detection of a drivers of a vehicle. The system (100) comprising a sensor (114) for sensing a condition of the driver's behaviours at a plurality of activities. The system (100) further comprising one or more processors(116). The system (100) further comprising a memory (118) for storing a set of the driver's behaviours configured the one or more processors (116) to perform sensing by:determine changes in the behaviours of the driver's facial activity and physiological activity between the plurality of the activities; evaluate whether the changes in the behaviour's activity of the driver's facial and physiological activity between the plurality of the activities exhibit at least one of a periodic and a quasi-periodic pattern, normalize the results of the analysing function, and perform a point for detection on the normalized results to identify a change in the facial and physiological activity of the driver. The system further comprising an alarm (212) for alerting the driver.

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : MESALAMINE LOADED MICROSPONGES FORMULATION

(51) International classification :A61K0031606000, A61K0031196000, A61K0031220000, A61K0009200000, A61K0047020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GLA University, Mathura

Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road Mathura, Chaumuhan, Uttar Pradesh 281406, INDIA
Chaumuhan -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Rohitas Deshmukh

Address of Applicant :Institute of Pharmaceutical Research, GLA University 17km Stone, NH-2, Mathura-Delhi Road, Chaumuhan Mathura Uttar Pradesh India 281406 Chaumuhan -----

2)Ms. Sudha Bhartiya

Address of Applicant :Institute of Pharmaceutical Research, GLA University 17km Stone, NH-2, Mathura-Delhi Road, Chaumuhan Mathura UttarPradesh India 281406 Chaumuhan -----

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(57) Abstract :

The main objective of the present invention is to prepare a mesalamine loaded microsponges formulation. Present invention discloses an immunosuppressive medicine which treats inflammatory bowel disease by decreasing prostaglandin production and blocking cyclooxygenase. Further it also discloses a mesalamine loaded microsponges formulation which is given orally and acts at colon to reduce inflammation for targeted drug delivery. Furthermore, present invention also ensure improved surface area to facilitate the quick oral absorption of poorly soluble drugs.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031795 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : HERBAL ETHOSOMAL GEL FORMULATION

(51) International classification :A61K0009000000, A61K0009700000, A61K0009060000, A61K0047320000, A61K0049000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GLA University, Mathura

Address of Applicant :17km Stone, NH-2 Mathura-Delhi Road, Chaumuhan, Mathura, Uttar Pradesh, India-281406 Chaumuhan -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof. Meenakshi Bajpai

Address of Applicant :Institute of Pharmaceutical Research, GLA University 17km Stone, NH-2, Mathura-Delhi Road, Chaumuhan Mathura Uttar Pradesh India 281406 Chaumuhan -----

2)Ms. Vanshita

Address of Applicant :Institute of Pharmaceutical Research, GLA University 17km Stone, NH-2, Mathura-Delhi Road, Chaumuhan Mathura Uttar Pradesh India 281406 Chaumuhan -----

3)Dr. Keshav Bansal

Address of Applicant :Institute of Pharmaceutical Research, GLA University 17km Stone, NH-2, Mathura-Delhi Road, Chaumuhan Mathura Uttar Pradesh India 281406 Chaumuhan -----

(57) Abstract :

The present invention relates to herbal formulation for osteoporosis. Particularly it relates to herbal ethosomal gel formulation for osteoporosis. Further is relates to a method for preparing herbal ethosomal gel formulation. Herbal formulation is prepared with biodegradable and biocompatible components. It shows a capability to efficiently encapsulate a wide variety of drug molecules including water-soluble, lipophilic, amphiphilic and high molecular-weight compounds. Herbal ethosomal gel formulation ensures improved skin permeation of drug molecules for both dermal and transdermal delivery.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031832 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : IOT AND DEEP LEARNING BASED SMART RENEWABLE ENERGY SYSTEM

(51) International classification :H04L0029080000, G06Q0050060000, F03D0009000000, G01D0021020000, F03D0017000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University,

Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India 144411. Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)POOJA MALIK

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

2)PRAVEEN KUMAR MALIK

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara -----

(57) Abstract :

The present invention is related to an IoT and deep learning based predication of the solar and wind based renewable energy system. The system includes a solar measurement module (100), a wind measurement module (200), a gateway (30), a cloud server (50), a deep learning algorithm (40) and a user dashboard (60). Based upon the real time data and historical data fast, accurate and reliable predication is done for solar radiation intensity, wind speed, renewable generated power. This ensures access to affordable, reliable and sustainable clean energy to meet growing power demand.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031833 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SMART WORK STATION WITH DETACHABLE FOLDING AND UNFOLDING

(51) International classification :G06Q0010100000, C04B0035630000, H02S0010400000, B62B0001120000, H05B0047110000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University,

Address of Applicant :Jalandhar- Delhi GT road Phagwara, Punjab, India 144411 Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Piyush Kumar Harichandan

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 Phagwara -----

--

2)Dr. Tarlochan Singh

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 Phagwara -----

--

3)Mandeep Singh

Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411 Phagwara -----

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(57) Abstract :

The present invention relates to novel a table top with wire organizer (102) having an adjustable back (105) and button (104) for moving up and down with plurality of compartments (101) for keeping accessories; telescopic legs for height adjustment and folding with bottle holder (103) and the back has a led light system (107) and button system with solar battery (106). The works station is especially designed and made for recycled materials. The said invention serves dual purpose as solves the problem of space as well as solid waste generation. The said work station is cost effective and due to effective use of solar energy is useful for indoor and outdoor functioning. The said invention is suitable for homes, offices, schools or even shops where computers are being used

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031834 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : STEERABLE WING-SHAPED SOLAR SAIL MODULE FOR SATELLITE NAVIGATION AND SYSTEM THEREOF

(51) International classification	:B64G0001400000, H01L0031020000, B64G0001440000, C02F0103080000, F24S0023300000	(71)Name of Applicant : 1)Lovely Professional University, Address of Applicant :Jalandhar- Delhi GT road Phagwara , Punjab, India 144411. Phagwara ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)ANDLURI VINAY KUMAR REDDY Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---
Filing Date	:NA	2)DALJEET SINGH Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---
(87) International Publication No	: NA	3)VINOD S CHIPPALKATTI Address of Applicant :Strategic Electronics Business Unit, Centum Electronics Limited, #44, KHB Industrial Area, Yelahanka New Town, Bangalore 560106 Phagwara ----- -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention related to design of a modular approach of deploying solar sail for satellites which also involves a steering mechanism to control the direction of individual solar sail wings so as capture maximum solar radiations. The steerable wing-shaped solar sail independent module includes solar sail wing (104) with solar radiation sensor (102), steering actuator module (103), a central controller (101). The steering actuators are controlled by the central controller (101) based on the inputs given by solar radiation sensors (102). The module does not require additional thrusters or propellers for navigation thus making it sustainable. It feeds from the solar power which thus reducing the size of the initial payload while also increasing the overall system efficiency.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031844 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : NEW COMPUTING PARADIGM FOR COMMUNICATIONS THROUGH EDGE COMPUTING

(51) International classification :H04L0029080000, H04W0004700000, H04L0012911000, H01L0021660000, G06F0016930000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Ankush Jain

Address of Applicant :Assistant Professor, School of Computer Science Engineering and Technology,Bennett University, Greater Noida, Uttar Pradesh Greater Noida -----

2)Ms. Deepa Nair

3)Dr.Priyanka

4)Mrs.A.Praneetha

5)Dr. Bhasker Pant

6)Mr.Rajeev Agarwal

7)Ms.Sudha R V

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Ankush Jain

Address of Applicant :Assistant Professor, School of Computer Science Engineering and Technology,Bennett University, Greater Noida, Uttar Pradesh Greater Noida -----

2)Ms. Deepa Nair

Address of Applicant :Assistant Professor, MMS - HR Department, Sheila Raheja School of Business Management and Research, Raheja Education Complex, 24, Rd Number 2, Kher2adi, Bandra East, Mumbai - 400051 India Mumbai -----

3)Dr.Priyanka

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Maharaja Surajamal Institute of Technology, C4 Janakpuri, Delhi, 110058 Janakpuri -----

4)Mrs.A.Praneetha

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering, Mylavaram, Krishna District 52230, Guntur Mylavaram -----

--

5)Dr. Bhasker Pant

Address of Applicant :Department of Computer Science & Engineering, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India, 248002 Dehradun -----

6)Mr.Rajeev Agarwal

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, DRIEMS Autonomous Engineering College, Tangi, Odisha 754022, India Tangi -----

7)Ms.Sudha R V

Address of Applicant :Assistant Professor, Department of Information Technology, Vivekanandha College of Technology for Women, Elayampalayam, Tiruchengode, Namakkal Dt, Tamilnadu, India Tiruchengode -----

(57) Abstract :

Conventional centralized cloud computing is facing significant difficulties due to the fast expansion of mobile internet and Internet of Things applications. These difficulties include high latency, poor Spectral Efficiency (SE), and non-adaptive machine type of communication. New technology is driving a trend that moves the function of centralized cloud computing to devices at the network's edge to tackle these issues, which motivated the development of the new technology. Emerging in recent years has been several computer technologies at the edge of the network that come from various origins. These technologies aim to reduce latency, enhance SE, and enable the enormous machine type of communication.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031877 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A CANAL RESTRUCTURING SYSTEM FOR AGRICULTURAL LAND

(51) International classification :E02B0013020000, E02B0013000000, E02B0005080000, A01G0025090000, C02F0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. Pramod Kumar Yadav

Address of Applicant :Assistant Professor, Department of Civil Engineering, SET, IFTM University Moradabad, UP 244102 Moradabad -----

2)Mr. Syed Baqar Imam

3)Prof. Intezar Mahdi

4)Mr. Gaurav Hawadiya

5)Ms. Sheetal Sagar

6)Ms. Nisha Kashyap

7)Ms. Deepali Vasudev

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Pramod Kumar Yadav

Address of Applicant :Assistant Professor, Department of Civil Engineering, SET, IFTM University Moradabad, UP 244102 Moradabad -----

2)Mr. Syed Baqar Imam

Address of Applicant :Assistant Professor & Head, Department of Civil Engineering, SET, IFTM University Moradabad, UP 244102 Moradabad -----

3)Prof. Intezar Mahdi

Address of Applicant :Director, School of Engineering and Technology, IFTM University, Moradabad, UP 244102 Moradabad -----

4)Mr. Gaurav Hawadiya

Address of Applicant :Assistant Professor, Department of Civil Engineering, SET, IFTM University Moradabad, UP 244102 Moradabad -----

5)Ms. Sheetal Sagar

Address of Applicant :Assistant Professor, Department of Civil Engineering, SET, IFTM University Moradabad, UP 244102 Moradabad -----

6)Ms. Nisha Kashyap

Address of Applicant :Assistant Professor, Department of Civil Engineering, SET, IFTM University Moradabad, UP 244102 Moradabad -----

7)Ms. Deepali Vasudev

Address of Applicant :Assistant Professor, Department of Civil Engineering, SET, IFTM University Moradabad, UP 244102 Moradabad -----

(57) Abstract :

The present invention discloses a canal restructuring system for agricultural land. The present study is an attempt to find out the changes in agricultural land of rabi season because during rabi season canal is important source of irrigation in 23 Down Haidergarh canal command system. Remote sensing and GIS techniques were used to monitor the changes after the restructuring of canal system. The LISS-III data (Linear Imaging Self-Scanner) of Rabi season for the year 2011-12 and 2017-18 was used for mapping of agricultural land use changes in rabi season for 23 Down Haidergarh canal command system. This study is useful to find out the change in agricultural land after the restructuring of canal command system.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031887 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN INTELLIGENT HARNESS WARNING SYSTEM FOR PROTECTIVE HEAD GEAR

(51) International classification :A42B0003040000, A41D0013000000, A63B0071060000, F26B0021000000, A42B0003280000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Arjun S. Negi

Address of Applicant :G316, Jal Vayu Vihar, Sector 30, Gurugram-122001, Haryana, India -----

2)Deepak Nirankari

3)Jyoti Verma

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Arjun S. Negi

Address of Applicant :G316, Jal Vayu Vihar, Sector 30, Gurugram-122001, Haryana, India -----

2)Deepak Nirankari

Address of Applicant :G316, Jal Vayu Vihar, Sector 30, Gurugram-122001, Haryana, India -----

3)Jyoti Verma

Address of Applicant :9/3, GPO Compound, Mall Road, Meerut Cantt-250001, India -----

(57) Abstract :

The present invention discloses a device with an intelligent harness warning system for protective head gear wherein the buzzer is triggered if the harness/strap of the protective head gear is not secured at the time of riding a two-wheeler or construction workers, miners etc while working and thereby ensuring the safety of the wearer of protective head gear. The present invention comprises of an IR sensor, a buzzer, a battery pack and a solar panel.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031888 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL PROCESS FOR AMBIENT SCREEN CONTROL AUTOMATION SYSTEM

(51) International classification :F16M0013020000, G06F0016245000, G06F0016435000, G06F0009451000, B21B0038000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Jaypee Institute of Information Technology, Noida Address of Applicant :JIIT, A-10, Sector 62, Noida, Pincode-201309, U.P, India NOIDA ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Anita Sahoo Address of Applicant :Jaypee Institute of Information Technology, Noida NOIDA ----- 2)Vikas Saxena Address of Applicant :Jaypee Institute of Information Technology, Noida NOIDA ----- 3)Himani Bansal Address of Applicant :Jaypee Institute of Information Technology, Noida NOIDA ----- 4)Ishan Jain Address of Applicant :Jaypee Institute of Information Technology, Noida NOIDA ----- 5)Mayur Bansal Address of Applicant :Jaypee Institute of Information Technology, Noida NOIDA ----- 6)Pradhuman Gupta Address of Applicant :Jaypee Institute of Information Technology, Noida NOIDA -----

(57) Abstract :

The present invention discloses the process for automation of the ambient screen control with high precision by real time human or user detection. More specifically, the present invention relates to the process of automation of horizontal viewing angle adjustment of TV screens by rotating the wall bracket holding the TV for a better viewing experience to single as well as multiple user present in the vicinity and thereby eliminating the need of manual or physical adjustment.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031917 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : GROWTH MEDIA COMPOSITION FOR ALGAE

(51) International classification :C12M0001000000, C12N0001120000, C12M0001340000, C12M0001120000, C12N0001200000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date

(62) Divisional to :NA

Application Number :NA

Filing Date

(71)Name of Applicant :

1)GRAPHIC ERA (DEEMED TO BE UNIVERSITY)

Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KUMAR, Dr. Vinod

Address of Applicant :Graphic Era deemed to be University, 566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India. -----

2)KUMAR, Sanjay

Address of Applicant :Graphic Era deemed to be University, 566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India -----

3)GAUTAM, Dr. Pankaj

Address of Applicant :Graphic Era deemed to be University, 566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India. -----

4)NANDA, Dr. Manisha

Address of Applicant :Dolphin (PG) Institute of Biomedical & Natural Sciences Manduwala, Near Suddowala, Chakarata Rd, Dehradun, Uttarakhand 248007 -----

(57) Abstract :

The present invention relates to the field of growth media for Algae. The growth media reduces the cultivation time of algae in the petri plate and allows the isolation, screening, fast growth and maintenance of microalgal cells on solid media.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031931 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FACE RECOGNITION USING SMART ELECTRONIC DEVICE

(51) International classification :G06K0009000000, H04L0029060000, G06F0021320000, G06F0003010000, H04M0001725000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Noida Institute of Engineering & Technology

Address of Applicant :Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ms. Bhawna Wadhwa

Address of Applicant :Department of Computer Science & Engineering (AI), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida -----

2)Ms. Alisha Sikri

Address of Applicant :Department of Computer Science & Engineering (AIML), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

3)Dr. Vikas Sagar

Address of Applicant :Department of Computer Science & Engineering (AI), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

4)Ms. Anamika Chaudhary

Address of Applicant :Department of Information Technology, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

A smart electronic device and a method for authenticating users are provided. Profiles of each user trying to enter a restricted area is created. An image sensor captures image of the users when the users is trying to enter inside a restricted area and identifies the users from the image of the users based on facial recognition techniques. Authentication of the users is then performed based on the profile of the user and face recognition techniques.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031932 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AUTOMATIC MATERIAL REMOVING MACHINE

(51) International classification :G05B0019180000, B23Q0017090000, B23Q0005340000, E21B0007020000, F16K0037000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Noida Institute of Engineering and Technology

Address of Applicant :19, Institutional Area, Knowledge Park II, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Praveen Pachauri

Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

2)Mr. Anurag Pal

Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

3)Mr. Shahazad Ali

Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

4)Mr. Rakesh Kumar Singh

Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

The present invention provides an automatic material-removing machine for removing material for getting the desired shape. The machine is economical. The machine allows the user to define or set the trajectory. the machine (100) includes comprises a user interface, storage, a piston-cylinder arrangement, a metal removing tool, at least one sensor, a controller, a flow control valve, and conduits. the fluid pressure inside the cylinder is controlled by a controller using a flow control valve based upon predefined movements of the metal removing tool in order to get the controlled piston movements for moving the metal removing tool in a required manner for shaping the workpiece. A primary machine is a drilling machine, boring machine, lathe machine, shaper machine, gear shaping machine. Further, the metal removing tool is a lathe machine tool, a gear, a drill bit, a boring tool.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031933 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANTI-ACNE ADHESIVE FORMULATION AND METHOD OF PREPARATION THEREOF

(51) International classification :B01J0037020000, A61K0047340000, A61K0008730000, C09D0005000000, H01M0004131000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Noida Institute of Engineering and Technology Address of Applicant :Plot 19, Knowledge Park- 2, Institutional Area Greater Noida Uttar Pradesh India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Rashmi Mishra Address of Applicant :Department of Biotechnology, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park- 2, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ----- 2)Dr. Pratibha Pandey Address of Applicant :Department of Biotechnology, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park- 2, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ----- 3)Dr. Fahad Khan Address of Applicant :Department of Biotechnology, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park- 2, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ----- 4)Dr. Sujeet Kumar Singh Address of Applicant :Department of Biotechnology, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park- 2, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

The anti-acne formulation comprises of a) a bio-degradable polymer in the range of 60%-80% w/w, b) an antioxidant herb in the range of 25%-45% w/w, and c) an anti-acne agent in the range of 12%-25% w/v, d) solvent in the range of 75%-95%w/w, humectant in the range of 10%-20% w/v, plasticizing agent in the range of 5%-10%. A method for preparation of the formulation comprising the steps of adding bio-degradable polymer in the solvent water to obtain a solution, adding the anti-oxidant herb in the solution followed by addition of the anti-acne agent to obtain a suspension, introducing the humectant and plasticizing agent to the suspension in order to obtain a drug solution, stirring the drug solution for a period of 20-40 min to obtain a fine mixture, pouring the mixture on a petri dish followed by drying at a temperature in the range of 50 -70 for 3-5 hrs.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031934 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FOOD RECOMMENDATION APPARATUS AND METHOD USING ARTIFICIAL INTELLIGENCE TECHNIQUES

(51) International classification :G06N0005040000, H04W0004300000, G06N0003080000, G16H0020300000, G06N0005020000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Noida Institute of Engineering & Technology, Greater Noida Address of Applicant :Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India Greater - Noida ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Kumud Saxena Address of Applicant :Department of Computer Science & Engineering (AI), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater -Noida ----- 2)Ms. Alka Singh Address of Applicant :Department of Computer Science & Engineering (AIML), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater -Noida ----- ----- 3)Ms. Sofia Pillai Address of Applicant :Department of Computer Science & Engineering (AI), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater -Noida ----- 4)Mr. Yaduvir Singh Address of Applicant :Department of Computer Science & Engineering (AI), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater -Noida -----

(57) Abstract :

A food recommendation apparatus and method are disclosed. One or more inputs from the user is received, wherein the one or more inputs relates to information associated with the user. The one or more inputs are analyzed, and one or more food preferences and daily routine of the user based on the analyses of the one or more inputs are learnt. Food items to the user are recommended based on a result of learning.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031935 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATED PREEMPTIVE ALERT TRIGGERING OBJECT CLASSIFICATION USING MACHINE LEARNING

(51) International classification :G06N0020100000, G06N0020000000, G06N0005000000, G06F0003048100, H04L0012180000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Noida Institute of Engineering & Technology Address of Applicant :Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Priyanka Chandani Address of Applicant :Department of Computer Science and Engineering (Data Science), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida ----- 2)Ms. Sonia Arora Address of Applicant :Department of Computer Science and Engineering (CSBS), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida ----- 3)Ms. Manali Gupta Address of Applicant :Department of Computer Science and Engineering (CSBS), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida ----- 4)Ms. Garima Jain Address of Applicant :Department of Computer Science and Engineering (CSBS), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

Accordingly, embodiments herein disclose system and method for automated preemptive alert triggering object classification using machine learning. The system comprises a model database containing a machine-learning classifier that is configured to generate a risk prediction based on inputted features. The system includes first and second input devices for receiving and displaying inputs from a user, respectively; and at least one server configured to: receive electrical signals from the first input device, the electrical signals corresponding to a plurality of user inputs provided to the first input device; automatically generate input-based features from the received electrical signals; input the input-based features into the machine-learning classifier; automatically and directly generate a risk prediction with the classifier from the input-based features; and generate and display an alert when the risk prediction exceeds a threshold value.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031936 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : VIRTUAL DATACENTRE BASED ENVIRONMENTAL MONITORING

(51) International classification :G16H0040670000, G06F0016900000, G08G0001052000, G06Q0010060000, A61B0005040000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Noida Institute of Engineering & Technology Address of Applicant :Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India Greater - Noida ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Ratna Nitin Patil Address of Applicant :Computer Science and Engineering (AIML), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater –Noida Uttar Pradesh India 201306 Greater –Noida ----- 2)Mr. Pradeep Kumar Address of Applicant :Computer Science and Engineering, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater –Noida ----- 3)Ms. Alka Singh Address of Applicant :Computer Science and Engineering (AIML), Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater –Noida ----- 4)Mr. Abhijit Kumar Address of Applicant :Computer Science and Engineering, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater –Noida -----

(57) Abstract :

A virtual datacenter and a method for analyzing environmental data in real-time is provided. The environmental data is collected from various data sources located at different locations and stored in the virtual datacenter. The data is analyzed in real time over a period of time and one or more patterns from the data are identified. It is determined if the data is more than a predetermined threshold value and if there is a deviation from the one or more patterns. One or more actions are suggested to user when the data is more than the predetermined threshold value and when there is a deviation from the one or more patterns.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031937 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AGRICULTURAL WASTE-BASED BIO-ORGANIC FERTILIZER AND METHOD OF PREPARATION THEREOF

(51) International classification :C05F0003000000, A01C0021000000, C05D0005000000, C05F0017000000, C05G0003800000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Noida Institute of Engineering & Technology Address of Applicant :Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Arvind Kumar Address of Applicant :Department of Biotechnology, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida ----- 2)Dr. Harmanpreet Meehnian Address of Applicant :Department of Biotechnology, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater Noida ----- 3)Mr. Ramish Maqsood Address of Applicant :Department of Biotechnology, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater -Noida ----- 4)Dr. Chhaya Agarwal Address of Applicant :Department of Biotechnology, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater -Noida ----- 5)Dr. Vikas Sharma Address of Applicant :Department of Biotechnology, Noida Institute of Engineering & Technology, Plot 19, Knowledge Park - 2, Institutional Area Greater -Noida Uttar Pradesh India 201306 Greater -Noida -----

(57) Abstract :

An agricultural waste-based bio-organic fertilizer comprising biologically active agricultural waste components and cow dung slurry is revealed. The agricultural waste-based bio-organic fertilizer is obtained by pulverizing and mixing various agricultural waste components including crop straw, livestock manure and legume roots, stems and leaves, etc. in certain proportion by weight; biologically activating by adding cow dung slurry; and anaerobic fermenting the mixture. The advantages of the present invention include sustainable development of agriculture and environment. The present invention attempts to improve the environmental condition by eliminating the hazards posed by the use of chemical fertilizers and serves the purpose of protecting human and environmental health.

No. of Pages : 15 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031938 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : SOLAR HEATING-BASED WATER BUCKET

(51) International classification :F24H0001200000, H01L0031054000, F24S0060300000, F24S0030000000, F24D0011000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Noida Institute of Engineering and Technology

Address of Applicant :19, Institutional Area, Knowledge Park II, Greater Noida Uttar Pradesh India Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Ashutosh Kumar Singh

Address of Applicant :Department of Electronics and Communication Engineering, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park -2, Institutional Area, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

2)Ms. Kanika Jindal

Address of Applicant :Department of Electronics and Communication Engineering, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park -2, Institutional Area, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

3)Mr. Kamal Bhatia

Address of Applicant :Department of Electronics and Communication Engineering, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park -2, Institutional Area, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

4)Ms. Sarabjeet Kaur

Address of Applicant :Department of Electronics and Communication Engineering, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park -2, Institutional Area, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

5)Mr. Himanshu Yadav

Address of Applicant :Department of Electronics and Communication Engineering, Noida Institute of Engineering and Technology, Plot 19, Knowledge Park -2, Institutional Area, Greater Noida Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

According to an embodiment, a solar heating-based water bucket is disclosed. The bucket includes: a tank for holding water, the tank is defined by sidewalls and a base, top part of the tank is open; a lid configured with open end of the tank; a solar panel configured to outer portion of the lid to enable absorption of solar energy; and a heating element configured to bottom of the tank, the heating element coupled to the solar panel to convert solar energy to heat energy to enable heating of water inside the tank. water heater system is provided with a foldable bucket heater with solar energy.

No. of Pages : 11 No. of Claims : 10

(54) Title of the invention : A NOVEL FORMULATION FOR PREVENTING SKIN FROM TERRIBLE CONSEQUENCES OF SANITIZERS

(51) International classification :A61Q0019000000, A61Q0019100000, A61K0008920000, A61K0008970000, A61Q0017000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr Pranay Wal Address of Applicant :Professor & Dean Pharmacy, Pranveer Singh Institute of Technology, Kanpur , UP, India ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Hemanga Hazarika Address of Applicant :Assistant Professor, Girijananda Chowdhury Institute of Pharmaceutical ScienceTezpur,Dekargaon, Sonitpur, Assam Sonitpur ----- 2)Aditya Bora Address of Applicant :Assistant Professor, School of Pharmaceutical Sciences, University of Science and Technology , Meghalaya, Baridua, Ribhoi, Meghalaya Ribhoi ----- 3)V. Anil Kumar Address of Applicant :Assistant Professor, Department of Pharmaceutics, GIET School of Pharmacy, Srikakulam, Andhra Pradesh Srikakulam ----- 4)Prof (Dr) Sangram Keshari Panda Address of Applicant :Principal, Jeypore College of Pharmacy,Jeypore, Koraput, Odisha Koraput ----- 5)Joydeb Acharjee Address of Applicant :Assistant Professor,Rahman Institute of Pharmaceutical Sciences and Research, Sonapur, Tepesia, Guwahati, Assam Guwahati ----- 6)Shekhar Chandra Borah Address of Applicant :Assistant Professor,Girijananda Chowdhury Institute of Pharmaceutical Sciences,Tezpur,Dekargaon, Sonitpur, Assam Sonitpur -----

(57) Abstract :

In one aspect of the present disclosure, a polyherbal composition is disclosed. The disclosed formulation does not have any ill effects on the skin. The hand sanitizer is prepared by mixing the following components in percentage by weight: aloe vera in between 12-20 %, coleus vettiveroids in between 12-22 % , Coriandrum sativum in between 5-10 %, citrus lemon in between 3-5 % , Azadirictica indica in between 2-6 % ,and isopropyl alcohol in between 40 - 55% pure plant spice and the balance of de-ionized water. The composition includes a soothing agent in a therapeutically significant amount and a conditioner. The hand sanitizer is prepared by taking the various components in percentage by weight, adding to a mixing container and uniformly stirring. The hand sanitizer can inhibit bacteria and sterilize, and is abundant in foam and warm to clean; the hand sanitizer, which is added with plant additives, not only provides necessary moisturizing components for cleaned hand skin so as to keep the hand skin moist and delicate, but also effectively protects the skin from being hurt. The hand sanitizer, which contains natural citric acid, has functions of resisting and inhibiting bacteria, and is capable of enhancing anti-aging effect of the skin, improving microcirculation of the skin, and preventing the skin from becoming rough and chapped; the hand sanitizer, after long-term use, can whiten and moisturize the skin. In the prepared formulation, the alcohol was used along with oil extract to get better result. In this study the herbal extract based formulations were formulated which were used to reduce germs on hand and harmless to hand and alternative to synthetic drugs. This formulation is advanced hand sanitizer which has moisturizing properties; this is highly effective against surface microbes. Our formulation novelty lies in synergistic effects of various herbs used in preparation, for instance they are rich source of linolenic acid, which provide the anti oxidant effect along with skin smoothening benefit.

No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : A NOVEL ANDROGRAPHOLIDE ANALOUGE HAVING NEUROPROTECTIVE ACTIVITY

(51) International classification :A61K0031365000, A61P0025280000, G01N0033680000, A61K0031704800, A61K0031050000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Royal Patel

Address of Applicant :Assistant Professor, Shree Krishna College of Pharmacy, Sitapur, UP -----

2)Vikas Kumar Chaudhri**3)Dr Amandeep Singh****4)Dr Rohit Bhatia****5)Bhupendra Nehra****6)Vishal Kumar****7)Aarti Tiwari****8)Somesh Shukla**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Royal Patel

Address of Applicant :Assistant Professor, Shree Krishna College of Pharmacy, Sitapur, UP -----

2)Vikas Kumar Chaudhri

Address of Applicant :Associate Professor, Mahatma Gandhi Institute of Pharmacy, Lucknow, UP -----

3)Dr Amandeep Singh

Address of Applicant :Associate Professor, I.S.F College of Pharmacy , Moga, Punjab -----

4)Dr Rohit Bhatia

Address of Applicant :Associate Professor, I.S.F College of Pharmacy , Moga, Punjab -----

5)Bhupendra Nehra

Address of Applicant :PhD Research Scholar, Guru Jambheshwar University of Science and Technology , HISAR, Haryana -----

6)Vishal Kumar

Address of Applicant :PhD Research Scholar, Integral University , Lucknow , UP -----

7)Aarti Tiwari

Address of Applicant :Assistant Professor, Dr. Rammanohar Lohia Avadh University , Lucknow , UP -----

8)Somesh Shukla

Address of Applicant :Assistant Professor, Department of Pharmacy, Rama University , Kanpur , UP -----

(57) Abstract :

Andrographolide is an active constituent of andrographolide paniculata with antioxidant and anti-inflammatory properties. It acts as neuroprotective and neuromodulatory by inhibiting deposition of amyloid protein and activation Nrf2 pathway. In addition it also increases the level of BDNF and NGF indicates it is usefulness for the prevention of cognitive like symptoms. STZ is centrally and peripherally acting agent. It directly effects on tau protein and glutamic neurons. It indirectly act on insulin receptor and leads to insulin resistance and decline the level of energy in brain cells. Therefore, the present Invention demonstrates the neuroprotective effect of andrographolide against STZ (ICV) memmory deficit in experimental rats. Administration of STZ (3 mg/ kg, ICV.) for 1st and 3rd days in rats produces cognitive impairment as evidenced by Morris water maze, elevated pus maze, and actophotometer. In addition, there was increased oxidative stress (MDA, nitrite) and neuroinflammatory markers (TNF- α , IL-1 β and IL-17) through ELISA kits, and decreased levels of glutamate, GABA and increased levels of NE through HPLC- ECD. The treatment drug andrographolide (15, 60 mg/kg) was administered from day 11 to 21 prior to the STZ administration. Andrographoide has significantly and dose-dependently improved memory dementia like symptoms performed by Morris water maze, elevated pus maze, actophotometer. It also reduced oxidative stress and restored the decreased GSH activity, decreased levels of neuroinflammatory markers.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031970 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : 5G INDUSTRIAL IOT ENABLED CLOUD MANUFACTURING SECURITY SERVICE ARCHITECTURE BASED ON FOG COMPUTING AND BLOCKCHAIN

(51) International classification :H04L0029080000, H04L0029060000, H04L0012240000, G05B0019418000, H04L0009320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr.Bharat Bhushan Agarwal
Address of Applicant :Associate Professor Computer Science & Engineering Department
School of Computer Science And Applications IFTM University Moradabad , 244102
State:Uttar Pradesh Country:India -----
2)Ms. S.P.Chitra Preetha
3)Prof (Dr) Vani Ramesh
4)Mrs. Priti Sharma
5)Mr. Rachhpal Singh
6)Mr. Daya Shankar Prasad
7)P.P.Dandavate
8)Dr.Manoranjan Dash
9)Dr Shipra Shivkumar Yadav
10)Mr. Akash Gupta
11)Dr. Harikumar Pallathadka
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.Bharat Bhushan Agarwal
Address of Applicant :Associate Professor Computer Science & Engineering Department
School of Computer Science And Applications IFTM University Moradabad , 244102
State:Uttar Pradesh Country:India -----
2)Ms. S.P.Chitra Preetha
Address of Applicant :Assistant Professor BSA Crescent Institute of Science and Technology .
Chennai Pin : 600048 State: Tamilnadu Country: India -----
3)Prof (Dr) Vani Ramesh
Address of Applicant :Head Research and Innovation Centre Soundarya Institute of
Management and Science Bangalore Pin:560073 State: Karnataka Country: India -----
4)Mrs. Priti Sharma
Address of Applicant :Assistant Professor Department of Electronics and Communication
Engineering Uma Nath Singh Institute of Engineering 2 & Technology(Department of
Electronics & Communication Engineering),Veer Bahadur Singh Purvanchal
University,Jaunpur Pin:222003 State: Uttar Pradesh Country: India -----
5)Mr. Rachhpal Singh
Address of Applicant :Assistant Professor Punjabi University Regional Centre for Information
Technology And Management, Mohal, Residential Area, Phase-7,Mohali Pin: 160059 State:
Punjab Country: India -----
6)Mr. Daya Shankar Prasad
Address of Applicant :Assistant Professor MVN University, 74th KM Stone, NH-2 Delhi-Agra
Highway, NCR, Aurangabad, Haryana, India Pin: 121105 State: Haryana Country: India -----
7)P.P.Dandavate
Address of Applicant :Asst Prof. VIT Pune Pin:411037 State: Maharashtra Country: India -----
8)Dr.Manoranjan Dash
Address of Applicant :Associate Professor Siksha O Anusandhan University Bhubaneswar Pin:
751003 State: Odisha Country: India -----
9)Dr Shipra Shivkumar Yadav
Address of Applicant :Assistant professor Computer science. Computer Science Inter Institute
of Computer Centre, Nagpur. Pin: 440023 State: Maharashtra, Country: India -----
10)Mr. Akash Gupta
Address of Applicant :Researcher National Institute of Delhi, Delhi Pin: 110036 State: Delhi
Country: India -----
11)Dr. Harikumar Pallathadka
Address of Applicant :Director and Professor Manipur International University, Ghari, Imphal,
Imphal West, Pin: 795140 State: Manipur Country: India -----

(57) Abstract :

The most recent iteration of the Industrial Internet of Things (IIoT) confers additional capabilities upon the traditional production model in preparation for Industry 4.0 through the use of cloud computing. Cloud integration expands the capabilities of manufacturing systems by providing cloud-based control and real-time process monitoring. This type of expansion is known as Cloud Manufacturing (CM). The incorporation of cloud computing, on the other hand, presents a new set of security concerns to the entire manufacturing ecosystem as well as increases in end-to-end latency. By moving security services closer to the network's edge, you can minimise message routing latency towards the cloud, remove the system's single most likely point of failure, and improve the overall performance of the system as a whole. We present a security service architecture that is supported by blockchain technology and fog computing, and it works on fog nodes that are located at the edge of manufacturing equipment clusters. The proposed service makes it easier for CM equipment to be authenticated and protects the privacy of the connection between equipment and the cloud, all while maintaining anonymity and unlinkability throughout the blockchain. We used Hyperledger Fabric to create the proposed design, and then compared the performance benefit it offered to that of the most recent and cutting-edge alternatives.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211031971 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD FOR PREPARATION OF A CELLULOSIC VESSELS FROM AN AGRICULTURE WASTE

(51) International classification :D21J0007000000, G01N0001280000, B28B0001520000, A23L0029000000, D21J0003120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Saurabh Sharma

Address of Applicant :Incubatee, Pioneer Incubator, Career Point University, Hamirpur (HP), INDIA-176041 -----

2)Dr. Kuldeep Kumar

3)Dr. Naveen Thakur

4)Mr. Nikesh Thakur

5)Mr. Pankaj Kumar

6)Dr. Sanjay Thakur

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Saurabh Sharma

Address of Applicant :Incubatee, Pioneer Incubator, Career Point University, Hamirpur (HP), INDIA-176041 -----

2)Dr. Kuldeep Kumar

Address of Applicant :Associate Professor, Department of Chemistry, Career Point University, Hamirpur (HP), INDIA-176041 -----

3)Dr. Naveen Thakur

Address of Applicant :Professor, Department of Physics, Career Point University, Hamirpur (HP), INDIA-176041 -----

4)Mr. Nikesh Thakur

Address of Applicant :Ph.D. Research Scholar, Department of Physics, Career Point University, Hamirpur (HP), INDIA-176041 -----

5)Mr. Pankaj Kumar

Address of Applicant :Ph.D. Research Scholar, Department of Physics, Career Point University, Hamirpur (HP), INDIA-176041 -----

6)Dr. Sanjay Thakur

Address of Applicant :Professor, Department of Commerce & Management Studies, Career Point University, Hamirpur (HP), INDIA176041 -----

(57) Abstract :

A method (100) for preparation of a cellulosic vessels from an agriculture waste wherein a method comprising the two phases, first preparation of a coating material a step comprising of; mixing (102) 4 gm of starch with 100 ml of water; putting (104) mixture in the hot air oven; maintaining (106) a temperature about 120-140oC, till the gelatinization is complete; stirring (108) the prepared gel until it concentrated; adding (110) a 5-10 ml of the ethanol and mixing uniformly to obtained uniform thin gel of the starch; Secondly preparing a coating plate a steps comprising of; diluting (112) the pulp with plenty of water to get the uniform isolated molecules; pouring (114) the pulp of known quantity into the circular mould of desired shape; pressing (116) the pulp and removing excess water; moulding (122) dried sample to the disposable paper plate by using the mechanical hot press plate making machine.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032006 A

(19) INDIA

(22) Date of filing of Application :03/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYNTHESIS OF AMINO ACIDS FUSED 1,3,4-OXADIAZOLE AND PREPARATION METHOD THEREOF

(51) International classification :C07K0001000000, C12P0021020000, C07K0005110000, C07K0005097000, C07C0271220000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Ajay Singh Bisht Address of Applicant :Himalayan Institute of Pharmacy & Research, Affiliated to Veer Madho Singh Bhandari Uttarakhand Technical University, Dehradun, Uttarakhand, India-248001 Dehradun ----- 2)Dr. Divya Juyal Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Ajay Singh Bisht Address of Applicant :Himalayan Institute of Pharmacy & Research, Affiliated to Veer Madho Singh Bhandari Uttarakhand Technical University, Dehradun, Uttarakhand, India-248001 Dehradun ----- 2)Dr. Divya Juyal Address of Applicant :College of Pharmacy, Roorkee, affiliated to Veer Madho Singh Bhandari Uttarakhand Technical University, Dehradun, Uttarakhand, India-248001 Dehradun ----- --

(57) Abstract :

The present invention provides design and synthesis of some unnatural amino acid. 1,3,4-oxadiazole is synthesized from nicotinic acid and further their amino acid derivatives are formed. Derivatives are tried to synthesize from two methods, conventional as well as microwave method in order to find out highest yielding method. Here, Method B i.e. microwave used method found to be produce high yield. Amino acids fused 1,3,4-oxadiazole is said to be unnatural amino acids. As unnatural amino acids synthesis is now an area of new research that has gained a lot of interest now a days. The ease of access of other synthetic routes for some unnatural amino acid derivatives and its similar compounds are crucial point in the designing of novel therapeutic drugs. The compound(s) are analyzed using UV, IR and NMR spectra data. Synthesized compound(s) are experienced for in-vitro free radical scavenging activity by DPPH and found to have promising activity.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211032018 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : HEPATOPROTECTIVE HERBAL COMPOSITION AGAINST ALUMINIUM SULFATE-INDUCED LIVER DAMAGE

(51) International classification :A61K0036480000, A61K0036486000, A61K0009000000, A61K0036185000, A61P0001160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Varsha Raj

Address of Applicant :Assistant Professor, Pharmacy Academy, IFTM University, Moradabad, U.P, India, Pin- 244102

2)Dr. Navneet Verma

3)Dr. Munesh Mani

4)Dr. Prevesh Kumar

5)Dr. Abhishek Suman

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Varsha Raj

Address of Applicant :Assistant Professor, Pharmacy Academy, IFTM University, Moradabad, U.P, India, Pin- 244102 -----

2)Dr. Navneet Verma

Address of Applicant :Professor, Pharmacy Academy, IFTM University, Moradabad, U.P, India, Pin- 244102 Moradabad -----

3)Dr. Munesh Mani

Address of Applicant :Professor, Pharmacy Academy, IFTM University, Moradabad, U.P, India, Pin- 244102 Moradabad -----

4)Dr. Prevesh Kumar

Address of Applicant :Assistant Professor, Pharmacy Academy, IFTM University, Moradabad, U.P, India, Pin- 244102 Moradabad -----

5)Dr. Abhishek Suman

Address of Applicant :Assistant Professor, Department of Pharmaceutical Chemistry, Government Pharmacy Institute, Patna, Bihar, Pin-800007 Patna -----

(57) Abstract :

he present invention relates to a hepatoprotective herbal composition against aluminium sulfate-induced liver damage comprising therapeutically effective amount of Mucuna pruriens seed, wherein said herbal composition significantly decreases the level of SGOT, SGPT, CRT, GGTP, Total bile, LDL, ALP, TBL, DBL, TC, triglyceride and significantly increases albumin, TP, and HDL in the blood.

No. of Pages : 30 No. of Claims : 4

(54) Title of the invention : EFFICIENT EVOLUTION OF CRACK SIZE ESTIMATE WITH FAST BOUND CRACK

(51) International classification :H03G0003000000, G06F0017100000, G06F0007020000, G06F0030200000, G06F0017130000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr.Sudhir Kumar Singh

Address of Applicant :Professor, Department of Mechanical Engineering, Galgotias University, Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh - 203201 Greater Noida -----

2)Prof. Parth Gaud**3)K. Arul Rasika****4)Mr. L. Karthick****5)Dr. Ravi Sharma****6)Dr. Anshuman Srivastava****7)Mr. Sumanth Ratna. Kandavalli****8)Mr. Akash Sood****9)Ms. Sunanda Ratna. Kandavalli****10)Mr. Febin Cherian John**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.Sudhir Kumar Singh

Address of Applicant :Professor, Department of Mechanical Engineering, Galgotias University, Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh - 203201 Greater Noida -----

2)Prof. Parth Gaud

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Parul University, Vadodara – 391760, Gujarat Vadodara -----

3)K. Arul Rasika

Address of Applicant :1st year M.Tech., Department of Civil Engineering VIT, Vellore Vellore -----

4)Mr. L. Karthick

Address of Applicant :Assistant Professor Department of Mechanical Engineering, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimabtoe - 641 032, Tamilnadu Coimabtoe -----

5)Dr. Ravi Sharma

Address of Applicant :Researcher, Department of Chemistry, Jai Narain Vyas University, Jodhpur, Rajasthan - 342001 Jodhpur -----

6)Dr. Anshuman Srivastava

Address of Applicant :Professor and DEAN (R and D), Department of Mechanical Engineering, Shambhunath Institute of Engineering and Technology, Jhalwa, Prayagraj – 211002, Uttar Pradesh Prayagraj -----

7)Mr. Sumanth Ratna. Kandavalli

Address of Applicant :50 Farmers Ave, Bethpage, New York 11714, United States -----

8)Mr. Akash Sood

Address of Applicant :Sr. Quality Engineer, New Product Development, Technocrat Connectivity Systems Pvt. Ltd., Gurugram – 122004, Haryana Gurugram -----

9)Ms. Sunanda Ratna. Kandavalli

Address of Applicant :# 2-60C-4, Dr. kkr School Street, Kakinada, East Godavari district, Andhra Pradesh - 533003 Kakinada -----

10)Mr. Febin Cherian John

Address of Applicant :# Mappila Veettil, Puthencavu P.O, Chengannur, Alappuzha District, Kerala-689123, India Alappuzha -----

(57) Abstract :

This paper presents the application of the Fast Bounds Crack methodology to generate upper and lower bound functions for crack size evolution models. The performance of this methodology was evaluated through the relative deviation and computation time relative to the approximate numerical solutions obtained by the open 4th order Runge-Kutta method (RK4). A maximum relative deviation of 5.92% was reached and the calculation time for the analyzed samples was 130000 times greater than the time obtained by the RK4 method. Based on the arithmetic mean of the upper and lower dimensions obtained in the methodology applied in this study, an engineering application has also been made to obtain an approximate numerical solution in cases where the law of evolution is unknown. The maximum relative error found in this application is 2.08%, which proves the effectiveness of the Quick Boundaries Crack methodology.

No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202211032090 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FINANCIAL MONITORING DATA IN ENTERPRISE KNOWLEDGE MANAGEMENT

(51) International classification :G06Q0010060000, B01J0037020000, G09B0005000000, G06N0007000000, G06N0005040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Rajnish Kler

Address of Applicant :Associate Professor, Motilal Nehru College (E), University of Delhi, Delhi, India New Delhi -----

2)Dharani Kumar Talapula

3)Dr. Ashvine Kumar

4)Rahul Pandey

5)Vemulapalli Sailaja

6)Dr. Girbal Singh Lodhi

7)Dr. Giridhari Mohanta

8)Iskandar Muda

9)Ruchika Sharma

10)Sanjeev Kumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rajnish Kler

Address of Applicant :Associate Professor, Motilal Nehru College (E), University of Delhi, Delhi, India New Delhi -----

2)Dharani Kumar Talapula

Address of Applicant :UPES (University of Petroleum and Energy Studies), Dehradun, Uttarakhand, India Dehradun -----

3)Dr. Ashvine Kumar

Address of Applicant :Controller of Examinations, CCS University, Meerut, Uttar Pradesh Meerut -----

4)Rahul Pandey

Address of Applicant :Associate Professor, Faculty of Management & Commerce, Jagran Lakecity University Bhopal, Madhya Pradesh Bhopal -----

5)Vemulapalli Sailaja

Address of Applicant :Asst Professor, Department of MBA KBN college, Vijayawada, Andhra Pradesh Vijayawada -----

6)Dr. Girbal Singh Lodhi

Address of Applicant :Professor and Head Department of Management, Veda Institute of Technology, RKDF University, Bhopal Bhopal -----

7)Dr. Giridhari Mohanta

Address of Applicant :Assistant Professor Faculty of Management Studies Sri Sri University, Cuttack, Odisha Cuttack -----

8)Iskandar Muda

Address of Applicant :Accounting, Universitas Sumatera Utara, Medan, Indonesia, Medan, North Sumatera, Indonesia -----

9)Ruchika Sharma

Address of Applicant :Assistant Professor, University institute of legal studies, Chandigarh University, Mohali, Punjab Mohali -----

10)Sanjeev Kumar

Address of Applicant :Research Scholar, School of Legal Studies and Governance, Career Point University, Hamirpur, Himachal Pradesh, India Hamirpur -----

(57) Abstract :

The investigation of monetarily checking the framework is the exploration of pictorially framing the framework in a manner that delineates the joining and associations between particular parts. It is the goal of an organization's models to make a comprehensive effort to capture all of the various processes that take place within the organisation, as well as the specific data requirements for each of those processes, and to support a framework for storing and recovering this data to enable continuous learning and improvement within the organization's workspace. In the context of economic observation, learning the chief framework captures all of the significant parts of the cycle in sufficient depth. This type of framework is particularly useful for forecasting.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : WIRELESS BODY AREA NETWORK FOR TUMOR DETECTION USING WEARABLE TECHNOLOGY

(51) International classification :A61B0005000000, G01N0033574000, C12Q0001688600, H04B0001382700, A61B0005050000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Jai Mangal

Address of Applicant :Near sky touch children academy, station road, Hindaun City -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Jai Mangal

Address of Applicant :Near sky touch children academy, station road, Hindaun City Hindaun City -----

2)Ajay Anil Kumar

Address of Applicant :Anjanam, Sanjay Nagar, Sekharipuram Sekharipuram -----

3)Lakamraju Abhinav Varma

Address of Applicant :H.No 5-76/2 Raidurgam,Oora pochma temple lane H.S. Darga -----

(57) Abstract :

The deaths due to cancer in 2018 only are 9.5 million, while the number of deaths due to COVID by 2021 will be 6.5 million only. Peoples have a misconception that it is complicated to cure cancer. This statement is partially correct as today; medical science has the technology to cure cancer. The earlier cancer has been detected, the more chances of saving that person increase. It is hard to detect cancer at its early stages. People generally do not go for cancer checkups within a certain period (6 months as advised by WHO). Also, the cancer checkups are costly and not much convenient. With all these conditions and a death number of approximately 10 million per year, it is vital to design a system that provides the information to the people whether they have cancer or not. This invention proposed a cost-effective wireless body area network for tumor detection using wearable technology that will use SAR (Specific Absorption Rates) value to detect cancer cells. Then by using IoT, the data will be transmitted, and then by using artificial intelligence, we will analyze the data. Then data is then sent to the doctor for analysis, and the final results will be sent to the user's mobile. This device could help the human race to become cancer-free one day.

No. of Pages : 6 No. of Claims : 6

(54) Title of the invention : Nanocomposites of rice-straw residue based cellulose nanofibers and VS2 for remediation of lead ions

(51) International classification :B01J0020280000, C02F0001280000, B82Y0030000000, B01J0035000000, H01G0011240000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Miss Preeti Tewetia Address of Applicant :PhD Research Scholar, Energy Research Centre, Panjab University, Chandigarh ----- -- 2)Dr Anupama Sharma 3)Dr Sonal Singhal Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Miss Preeti Tewetia Address of Applicant :PhD Research Scholar, Energy Research Centre, Panjab University, Chandigarh ----- 2)Dr Anupama Sharma Address of Applicant :SSB University Institute of Chemical Engineering and Technology, Panjab University, Chandigarh, India-160014 ----- 3)Dr Sonal Singhal Address of Applicant :Department of Chemistry, Panjab UniversityChandigarh 160 014 -----

(57) Abstract :

Wheat straw is a surplus agro-residue which is burnt on fields causing enormous air pollution. Straw is rich source of biopolymers including cellulose, hemicellulose and lignin. Through this study, an effort was made to extract cellulose nanofibers (CNFs) from wheat straw and use them as substrate for in-situ growth and exfoliation of a transition metal dichalcogenide, vanadium disulphide, for ultra-trace level detection and efficacious annihilation of Pb(II) ions from water. The direct growth of VS2 nanostructures CNFs enabled enhancement in interlayer spacing of VS2 monolayers, substantially increasing its surface area. The composite structure of CNF and VS2 (cel@VS2) hence derived was systematically characterized for morphology and structure using FESEM, TEM, FTIR, XRD and TGA. The composite exhibited excellent selectivity for Pb(II) ions with limit of detection of 19.92 nM. Owing to high active surface area available for adsorption, 99.2% Pb(II) ions were removed at 10mg/L and maximum adsorption capacity was 422 mg.g-1. Exceptional recyclability upto 5 cycles confirm the potential of cel@VS2 nanocomposites in waste water remediation.

No. of Pages : 36 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/06/2022

(21) Application No.202211032122 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMART DUSTBIN

(51) International classification :B65F0001140000, B65F0001000000, B65F0001160000, H02J0007000000, B65F0001060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)G. L. Bajaj Institute of Technology and Management

Address of Applicant :Plot No. 2, Knowledge Park III, Greater Noida
Gautam Buddh Nagar Uttar Pradesh India Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Birendra Kumar Saraswat

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

--
2)Prof. (Dr.) P.C. Vashist

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

--
3)Dr. Sanjeev Sharma

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

--
4)Aman Chaturvedi

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

--
5)Subhashi

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

--
6)Sonam Tomar

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

--
7)Hari Om Verma

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

A smart dustbin for waste management a method for waste management using the smart dustbin is disclosed. The smart dustbin comprises a first type of power source placed on top of the smart dustbin, and a second type of power source placed towards a bottom of the smart dustbin. The smart dustbin further comprises a first type of sensor configured to detect pressure of waste present in the smart dustbin and determine if the detected pressure is more than a predetermined threshold, a second type of sensor configured to determine if amount of waste present inside the smart dustbin has reached amount specified by the user and a sliding mechanism configured to automatically lock the smart dustbin when the detected pressure is more than the predetermined threshold and if the amount of waste inside the smart dustbin has reached the amount specified by the user.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032123 A

(19) INDIA

(22) Date of filing of Application :05/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : UNDERWATER SENSOR NETWORK

(51) International classification :H04B0013020000, H04B0011000000, H04W0004020000, H04W0040220000, H04L0012861000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)G. L. Bajaj Institute of Technology and Management Address of Applicant :Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India Greater Noida --- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Satya Prakash Yadav Address of Applicant :G. L. Bajaj Institute of Technology and Management (GLBITM), Affiliated to AKTU, Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida ----- 2)Shashank Awasthi Address of Applicant :G. L. Bajaj Institute of Technology and Management (GLBITM), Affiliated to AKTU, Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida ----- 3)Rudra Pratap Ojha Address of Applicant :G. L. Bajaj Institute of Technology and Management (GLBITM), Affiliated to AKTU, Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida ----- 4)Mahaveer Singh Naruka Address of Applicant :G. L. Bajaj Institute of Technology and Management (GLBITM), Affiliated to AKTU, Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida ----- 5)Sachin Yadav Address of Applicant :G. L. Bajaj Institute of Technology and Management (GLBITM), Affiliated to AKTU, Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

An underwater communication system and a method for underwater communication is disclosed. A transceiver is configured to receive traffic from wireless body sensor network and a traffic analysis unit is configured to analyze the received traffic. A traffic prioritizing unit is configured to prioritize the analyzed traffic, a route discovery unit is configured to select a route for the analyzed traffic, and a route repair unit is configured to identify transmission issues in channels receiving the traffic.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032124 A

(19) INDIA

(22) Date of filing of Application :05/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : VEHICLE FLEET MODERNIZATION PLAN

(51) International classification :G06Q0010060000, H04L0029060000, G07C0005000000, G06Q0010000000, B60H0001000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)G. L. Bajaj Institute of Technology and Management

Address of Applicant :Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shubhi Sharma

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

2)Nikhil Mishra

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

A vehicle scrapping system and a method for scrapping of vehicles are provided. A vehicle unit is configured to obtain a list of vehicles, wherein the list of vehicles comprises vehicles for which registration has expired. A dismantler is configured to dismantle parts of the vehicles of which the registration has expired. The dismantled parts are analyzed, by a quality checker using an image sensor. The quality checker analyses dismantled parts of the vehicle to determine quality of the dismantled parts of the vehicle and provide a quality status based on the determined quality.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032126 A

(19) INDIA

(22) Date of filing of Application :05/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : UV SANITIZATION AND MONITORING SYSTEM

(51) International classification :A61L0002100000, H04L0029060000, H04L0029080000, G06K0009000000, H04N0021222000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)G. L. Bajaj Institute of Technology and Management

Address of Applicant :Plot No. 2, Knowledge Park III, Greater Noida Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

2)Dr. Shashank Awasthi

3)Dr. Rudra Pratap Ojha

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ratnesh Chandra

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

2)Manish Rajpoot

Address of Applicant :G. L. Bajaj Institute of Technology and Management, Plot No. 2, Knowledge Park III, Greater Noida, Gautam Buddh Nagar Gautam Buddh Nagar Uttar Pradesh India 201306 Greater Noida -----

(57) Abstract :

A plurality of sanitization devices placed in an enclosed area and a method for sanitizing enclosed area using sanitization device is disclosed. Each of the sanitization device is connected with each other via a server. A transceiver is configured to communicate with a plurality of handheld devices. Each of the sanitization device further comprises a plurality of different sensors configured to detect a presence of a living being in the enclosed area and a processing unit which automatically switches on the sanitization device when the living being is not detected in the enclosed area, and automatically switches off the sanitization device after a specified period.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032130 A

(19) INDIA

(22) Date of filing of Application :05/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : GEL HEAT ABDOMINAL BELT FOR MENSTRUAL CRAMPS

(51) International classification :A61F0007000000, A61F0007020000, A61N0005060000, A61F0007030000, A61N0002000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Bhimtal Campus

Address of Applicant :Sattal Road, Bhimtal- 263156, Uttarakhand, India Bhimtal -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Neha Bhatt

Address of Applicant :Assistant Professor, College of Nursing Graphic Era Hill University, Bhimtal Campus Bhimtal -----

2)Babita Bisht

Address of Applicant :Nursing Tutor, College of Nursing, Graphic Era Hill University, Bhimtal Campus Bhimtal -----

(57) Abstract :

Menstrual pain i.e., Primary dysmenorrhea, is the most common gynaecologic condition in women. It refers to painful menstrual cramps in the lower abdominal region, and lower back during menstruation. It frequently involves other symptoms, including sweating, headache, nausea, vomiting & diarrhoea before or during menstruation. Its estimated prevalence varies between 45% and 95% of all women of reproductive age. Dysmenorrhea pain is the primary cause of recurrent short-term school or work absenteeism among young women of childbearing age. Heat therapy has been used as a treatment. A recent systematic review concluded that heat therapy may reduce the pain associated with primary dysmenorrhea. Jo et al. (Scientific Reports, 2018) examined whether heat therapy is a viable treatment for primary dysmenorrhea. This gel Heat Abdominal belt for menstrual cramps will be easy, comfortable and suitable remedy for abdominal cramps, lower back pain and spasms.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032131 A

(19) INDIA

(22) Date of filing of Application :05/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MONKEY SAFE GI SHEET WATER TANK LID

(51) International classification :A01M0029120000, B65F0001160000, B65D0021020000, B65D0043260000, A23L0033160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Bhimtal Campus

Address of Applicant :Sattal Road, Bhimtal- 263156, Uttarakhand, India Bhimtal -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Pawan Agarwal

Address of Applicant :Assistant Professor, PDP Department, Graphic Era Hill University, Bhimtal Campus Bhimtal -----

2)Narendra Bisht

Address of Applicant :Assistant Professor, PDP Department, Graphic Era Hill University, Bhimtal Campus Bhimtal -----

3)Lalit Singh

Address of Applicant :Associate Professor, PDP Department, Graphic Era Hill University, Bhimtal Campus Bhimtal -----

(57) Abstract :

Monkeys in urban areas often use overhead water tanks to drink water. The PVC lids provided with the tanks are easily opened or broken by the monkeys. If any heavy object such as stone slab or iron cover is put on the tank lid, it is pushed away by the monkeys. This can cause injury to humans and non-humans and damage to objects/ buildings below the tanks. Drinking water from the tanks pollute the water which may be used for drinking and other purpose by the residents resulting in potential spread of diseases. This lid deters the monkeys and they do not attempt to open the lid because of the sharp projectiles on the lids. It does not harm humans because the hatch of the lid is conveniently located and the lid can be very easily opened by humans. Installation of the lid involves fixing a hinge on the neck of the water tank and the GI sheet lid covers the original lid.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032132 A

(19) INDIA

(22) Date of filing of Application :05/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : FOLDABLE TOOTHBRUSH WITH COVER CASE

(51) International classification :C08L0021000000, A46B0005000000, A46B0015000000, A46B0009040000, A45C0013000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Bhimtal

Address of Applicant :Sattal Road, Bhimtal- 263156, Uttarakhand, India Bhimtal -----

2)Graphic Era Deemed to be University

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Neha Joshi

Address of Applicant :Assistant Professor, College of Pharmacy Graphic Era Hill University, Bhimtal Campus Bhimtal ----- --

2)Dr. Himanshu Joshi

Address of Applicant :Professor, College of Pharmacy Graphic Era Hill University, Bhimtal Campus Bhimtal -----

3)Shikha Pawar

Address of Applicant :Assistant Professor, College of Pharmacy Graphic Era Hill University, Bhimtal Campus Bhimtal ----- --

4)Ankit Bhatt

Address of Applicant :Graphic Era Deemed To be University, Dehradun Dehradun -----

(57) Abstract :

The invention discloses a foldable toothbrush with a cover case. The system is comprised of a cover case attached to the toothbrush itself. The toothbrush is designed in such a way that it can be easily foldable after use and the portion of bristles fits into the covering case. The covering case is of polypropylene which is safe and will not show any interaction with bristles. It is easily to handle and carry too.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/06/2022

(21) Application No.202211032133 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMART CLOTH

(51) International classification :A61B0005020500, A61B0005000000, A61B0005040200, G16H0040670000, G16H0050200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Graphic Era Hill University, Dehradun Campus

Address of Applicant :510, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rahul Chauhan

Address of Applicant :Assistant Professor, CSE Department, Graphic Era Hill University, Dehradun Campus Dehradun -----

2)Dev Soni

Address of Applicant :Assistant Professor, CSE Department, Graphic Era Hill University, Dehradun Campus Dehradun -----

(57) Abstract :

The smart cloth consists of 1 special feature which includes storing of data onto cloud which is generated by different – different sensors fitted on the cloth like ECG sensor, Temperature sensor, Motion sensor and spo2 sensor. The data is generated by these sensors and then it is transferred by raspberry pi onto cloud health care center, So this technology helps us a lot in different ways like we get timely aid and we don't require daily checkups because suppose that data is generated by the sensors and report is not in favor of patient health then doctor can take immediately action on that particular disease to get patient out of danger.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/06/2022

(21) Application No.202211032134 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD FOR SYNTHESIS OF BIOFUEL PRECURSORS USING ORANGE PEEL HYDROCHAR

(51) International classification	:C08J0005220000, B01J0031020000, B01J0031100000, B01J0023440000, B01J0037080000	(71)Name of Applicant : 1)Tripti Chhabra Address of Applicant :School of Basic Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India Mandi ----- 2)Prachi Dwivedi 3)Venkata Krishnan Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Tripti Chhabra Address of Applicant :School of Basic Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India Mandi ----- 2)Prachi Dwivedi Address of Applicant :School of Basic Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India ----- 3)Venkata Krishnan Address of Applicant :School of Basic Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Mandi, Himachal Pradesh, India -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method (100) for synthesis of biofuel precursors using hydrochar (102) as catalysts may be provided. The method (100) may include preparing (110) the hydrochar (102) using orange peel, functionalizing (120) the hydrochar (102) with acidic functional groups to obtain functionalized catalyst (106) and using (130) the functionalized catalyst (106) in the synthesis of biofuel precursors. Further, the functionalized catalyst (106) prepared from the hydrochar (102) using the biomass waste of orange peel, decreases the cost of the catalyst production and thereby decreases the overall cost of the synthesis of biofuel precursors. The acid functionalization of hydrochar (102) in the method (100) may be done from atleast one acid functional group selected from the group consisting of sulfonic, nitrate and phosphate.

No. of Pages : 30 No. of Claims : 5

(54) Title of the invention : AN INCLUSION COMPLEXATION BASED METHOD FOR CATALYZING THE SOLUBILITY OF RIFABUTIN

(51) International classification :A61K0047690000, A61K0031435000, B82Y0005000000, A61K0031438000, C08B0037000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr. KAPIL KALRA Address of Applicant :S/o. SHRI OM PRAKASH KALRA, PRINCIPAL, ALPINE COLLEGE OF MANAGEMENT & TECHNOLOGY, DEHRADUN - 248007, UTTARAKHAND, INDIA. Dehradun ----- 2)Dr. JYOTI MAITHANI KALRA 3)Dr. BIPIN VERMA 4)Dr. LOKESH TYAGI 5)MANISH NAWANI 6)ALOK BHATT 7)Dr. VIKAS JAKHMOLA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. KAPIL KALRA Address of Applicant :S/o. SHRI OM PRAKASH KALRA, PRINCIPAL, ALPINE COLLEGE OF MANAGEMENT & TECHNOLOGY, DEHRADUN - 248007, UTTARAKHAND, INDIA. Dehradun ----- 2)Dr. JYOTI MAITHANI KALRA Address of Applicant :W/o. Dr. KAPIL KALRA, HEAD OF THE DEPARTMENT, SCHOOL OF PHARMACEUTICAL SCIENCES, HIMGIRI ZEE UNIVERSITY, DEHRADUN - 248007, UTTARAKHAND, INDIA. Dehradun ----- 3)Dr. BIPIN VERMA Address of Applicant :S/o. SHRI G. S. VERMA, GOVERNMENT POLYTECHNIC COLLEGE, DWARAHAT, ALMORA -263653, UTTARAKHAND, INDIA. Dehradun ----- 4)Dr. LOKESH TYAGI Address of Applicant :S/o. SHRI SATISH CHANDRA, KESHARI CHAND SUBHARTI INSTITUTE OF PHARMACY, DEHRADUN - 248007, UTTARAKHAND, INDIA. Dehradun ----- 5)MANISH NAWANI Address of Applicant :S/o. MOHAN PRASAD NAWANI, HIMGIRI ZEE UNIVERSITY, DEHRADUN - 248007, UTTARAKHAND, INDIA. Dehradun ---- 6)ALOK BHATT Address of Applicant :S/o. SHRI DEVENDRA PRASAD BHATT, ASSISTANT PROFESSOR, SCHOOL OF PHARMACEUTICAL SCINECES, HIMGIRI ZEE UNIVERSITY, DEHRADUN - 248007, UTTARAKHAND, INDIA. Dehradun ---- 7)Dr. VIKAS JAKHMOLA Address of Applicant :S/o. KULANAND JAKHMOLA, DEAN, UTTARANCHAL INSTITUTE OF PHARMACEUTICAL SCIENCES, UTTARANCHAL UNIVERSITY, DEHRADUN - 248007, UTTARAKHAND, INDIA. Dehradun -----

(57) Abstract :

The present invention discloses a method for improving the solubility of the drug rifabutin through inclusion complexation method. -Cyclodextrin (8CD) and its derivative hydroxypropyl β -cyclodextrin (HP β CD) were used to prepare inclusion complex of rifabutin at different weight ratios by kneading method. Required quantity of polymer according to the formulation code was added into a mortar and wetted the polymer using water and methanol mixture (50%v/v) to obtain a paste of polymer. Rifabutin was added slowly into the paste of polymer. Kneading of the drug with polymer was performed manually in a mortar for about one hour. The mixture was dried overnight at 40 °C in a hot air oven. The dried product was grounded by using mortar and pestle. The resulted powder was passed through sieve number 85 and the inclusion complex was kept in a well closed container.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/06/2022

(21) Application No.202211032194 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : GUEST ROOM INFORMATION MANAGEMENT SYSTEM AND METHOD

(51) International classification :G08B0005360000, G06Q0050120000, G06Q0099000000, G06Q0010060000, G07C0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. Saurabh Bharti

Address of Applicant :Assistant Professor, UITHM, Chandigarh University, Gharuan, Mohali Punjab India 140413 Mohali -----

2)Mr. Ajaykumar Ramprasad Meshram

3)Ms. Sharmi Banerjee

4)Dr. Priyanka Rana

5)Dr. Sarina Asif

6)Mr. Nikhil Saini

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Saurabh Bharti

Address of Applicant :Assistant Professor, UITHM, Chandigarh University, Gharuan, Mohali Punjab India 140413 Mohali -----

2)Mr. Ajaykumar Ramprasad Meshram

Address of Applicant :Assistant Professor, Sheila Raheja Institute of Hotel Management, Affiliated to University of Mumbai, Raheja Education Complex, Kher Nagar, Bandra East, opp. Colgate Ground, Mumbai Maharashtra India 400051 Mumbai -----

3)Ms. Sharmi Banerjee

Address of Applicant :Assistant Professor, Sister Nivedita University, DG Block (Newtown), Action Area 1,1/2, Newtown, Kolkata West Bengal India 700156 Kolkata -----

4)Dr. Priyanka Rana

Address of Applicant :Associate Professor, School of Commerce & Management, IIMT University Mawana Road Ganganagar Pocket O, Meerut Uttar Pradesh India 250001 Meerut -----

5)Dr. Sarina Asif

Address of Applicant :Assistant Professor, Centre for Innovation and Entrepreneurship, G. D. Goenka University, Gurugram-Sohna Road, Sohna Haryana India 122103 Sohna -----

6)Mr. Nikhil Saini

Address of Applicant :Assistant Professor, Le Cordon Bleu School of Hospitality and Tourism, GD Goenka University, Sohna Gurugram Road, Sohna Haryana India 122103 Sohna -----

(57) Abstract :

Accordingly, embodiments herein disclose a guest room information management system (100) for indicating a status of a hotel guest room, comprising of an input system including a set of sensors (110) which can indicate signs of different room status; and a means for allowing a hotel guest to choose a message to convey to hotel staff and others from within the hotel guest room. The message is expressed by indicators housed within assemblies located outside of the hotel guest room, which are visible to passers-by. The set of sensors (110) may be an electronic device that is configured to receive input from the hotel guest, housekeeping personnel, or the like. The electronic device is situated in each guest room being in data communication with a communications network such that anticipated absence data entered into the guest room unit is delivered to a computer through the communications network.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211032292 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ALGAL BASED EDIBLE COATING COMPOSITION

(51) International classification :A23P0020100000, B65D0065460000, A23B0007160000, C12P0007640000, A23D0009040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GRAPHIC ERA (DEEMED TO BE UNIVERSITY)

Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vinod Kumar

Address of Applicant :Graphic Era Deemed to be University -----

2)Pooja Bhatnagar

Address of Applicant :Graphic Era Deemed to be University -----

3)Afreen Parveen

Address of Applicant :Graphic Era Deemed to be University -----

4)Bhawna Bisht

Address of Applicant :Graphic Era Deemed to be University -----

5)Prateek Gururani

Address of Applicant :Graphic Era Deemed to be University -----

6)Sanjay Kumar

Address of Applicant :Graphic Era Deemed to be University -----

7)Dr. Pankaj Gautam

Address of Applicant :Graphic Era Deemed to be University -----

8)Dr. M. K. Tripathi

Address of Applicant :ICAR-Central Institute of Agricultural Engineering (Govt of India), Nabibagh, Baresia Road, Bhopal (M.P)-462038 -----

(57) Abstract :

The present invention is in the field of edible coating. The Invention particularly provides algal based edible coating. The algal-based edible coating is useful to improve the functional quality and shelf-life of food products.

No. of Pages : 13 No. of Claims : 2

(54) Title of the invention : ACTIVITY RECOGNITION IN VIDEO SURVEILLANCE SYSTEM USING DEEP LEARNING TECHNIQUE

(51) International classification :G06K0009000000, G06K0009620000, H04N0007180000, G08B0013196000, G06N0003040000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Saurabh Gupta Address of Applicant :Assistant Professor, CSE Department, SRM Institute of Science and Technology, Delhi NCR Campus, Ghaziabad ----- 2)Kalpana Batra 3)Paramjeet Kaur 4)Hemlata Rauthan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Saurabh Gupta Address of Applicant :Assistant Professor, CSE Department, SRM Institute of Science and Technology, Delhi NCR Campus, Ghaziabad ----- 2)Kalpana Batra Address of Applicant :Assistant Professor, CSE Department, Global Institute of Technology and Management, Farrukhnagar, Gurugram, Haryana ----- 3)Paramjeet Kaur Address of Applicant :Assistant Professor, CSE Department, Global Institute of Technology and Management, Farrukhnagar, Gurugram, Haryana ----- 4)Hemlata Rauthan Address of Applicant :Assistant Professor, CSE Department, Aravali College of Engineering and Management, Faridabad, Haryana -----

(57) Abstract :

Recent improvements in object detection and face recognition have made it feasible to construct accurate and quick video surveillance systems with incorporated object detection and face identification. This study examines some of the current algorithms for object detection and face identification for accuracy and speed in video surveillance applications. Faster R-CNN with Inception ResNet V2 maintains real-time accuracy. SSD with MobileNet is quick and precise enough for most applications. FaceNet with MTCNN delivers greater accuracy than DeepFace and DeepID2+ while being quicker. End-to-end video monitoring is offered as a foundation for more complicated systems. Various experiments on trained models have been conducted with detailed observations. We explore video object recognition and video salient object detection as possible future system enhancements.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202213031249 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : INTERMITTENT RHYTHMIC PULSATION VACUUM-OXYGEN THERAPY MACHINE

(51) International classification :A61M0016060000, A61M0016100000, A61G0010020000, G02B0007000000, B01D0053040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :
Application Number :01/01/1900
Filed on

(62) Divisional to :NA
Application Number :NA
Filing Date

(71)Name of Applicant :

1)praveen singh

Address of Applicant :112 St-1 Sirhandi Gate -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)praveen singh

Address of Applicant :112 St-1 Sirhandi Gate -----

(57) Abstract :

This invention is an add on to the earlier invention having patent number 389644 consisting of a round vacuum chamber sealed on one end and having an iris type lens opening on the other end, which can seal this end by a clockwise rotation thus making the chamber airtight, such chamber, mounted on a stand which has a vacuum motor fitted and connected to the chamber through a pipe and valve. This system is control by a digital operated software which can turn on or turn off the motor intermittently as per the time set, for creating a vacuum inside the chamber. The entire machine consists of a chamber, iris type lens opening, electrical controls, vacuum motor and a stand and resting bed. Now an oxygen concentrator has been added to the above invention, which supplies fresh oxygen to the patient through a pipe to the oxygen chamber, placed on the face of the patient. The patient thus breathes air enriched with oxygen, while taking therapy.

No. of Pages : 18 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202213032092 A

(19) INDIA

(22) Date of filing of Application :04/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A BATTERY MANAGEMENT SYSTEM FOR SOLDER LESS BATTERY PACK

(51) International classification :H01M0010420000, H02J0007000000, B63B0039060000, B60L0050640000, B60L0058210000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :
Filed on :01/01/1900

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KHATRI MAHESH

Address of Applicant :81, Roop Nagar 2nd, Pal Road, Jodhpur Rajasthan. India 342008 -----

2)CHOPRA GRISHA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KHATRI MAHESH

Address of Applicant :81, Roop Nagar 2nd, Pal Road, Jodhpur Rajasthan. India 342008 Jodhpur -----

2)IYER NARESH

Address of Applicant :C-139, Ashoknagar Society, Behind Sundarvan, Jodhpur Tekra, Ahmedabad-380015 Gujarat, India Ahmedabad -----

3)KORHALKAR DEEPAK

Address of Applicant :13, Sneh shilp, Shivtirth nagar, Paud road, Kothrud, Ex. Serviceman Colony, Pune, Maharastra- 411038 Pune -----

(57) Abstract :

The present invention relates to a battery management system for solder less battery pack having plurality of battery cell (17) enclosed within the molded box (1). The PCB (18, 19) connected to the battery cell (17) without the soldering. The battery management system circuit (22) further having smoke sensor (22a), temperature sensor (22b) and tamper sensor (22c). The connector (100) provided at the one corner having female casing (8) being capable to connect to the male casing of the outer assembly. The redundant dust and water proofing mechanism (101) having a shutter mechanism (9) mounted with a left hand side shutter assembly (10) and a right hand side shutter assembly (11). The redundant dust and water proofing hinge mechanism (101) further having one fixed part (15), one moving part (14), a hinge rod (16) and a hinge spring (21) being capable to displaced in the vertical direction.

No. of Pages : 22 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021001148 A

(19) INDIA

(22) Date of filing of Application :10/01/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : A MEN OR MATERIAL LIFTING DEVICE FOR CONSTRUCTION SITES

(51) International classification :E04G0021320000, B66B0017160000, B65D0088160000, C23C0016480000, H04N0021438500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SUNIL RAMESHBHAI PATEL

Address of Applicant :C-201, VRUNDAVAN VIHAR, OPP. RAF CAMP, VSTRAL, AHMEDABAD -----

Name of Applicant : NA

Address of Applicant : NA

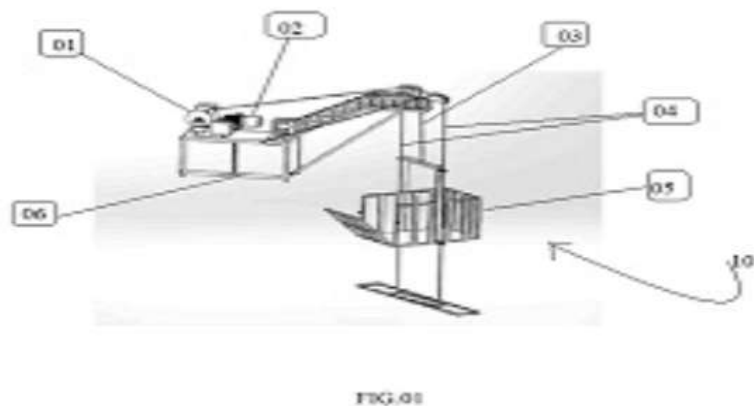
(72)Name of Inventor :

1)SUNIL RAMESHBHAI PATEL

Address of Applicant :C-201, VRUNDAVAN VIHAR, OPP. RAF CAMP, VSTRAL, AHMEDABAD -----

(57) Abstract :

Abstract A MEN OR MATERIAL LIFTING DEVICE FOR CONSTRUCTION SITE The present invention provides a men and material lifting device for construction site (10) which is characterized by having a safety cage (05) which is supported by a transport support mechanism containing a pair of fixed track cables (04) to support and secure stable movement of safety cage and a haulage rope (03) to pull up said cage which encloses men, material or trolley, over the fixed track whereby a combination of safety cage (05) and transport support mechanism (03 and 04) provides safety to men and material to be lifted by material lifting devices at construction sites and thus, improve overall operational efficiency of the material lifting devices to be used at construction sites. For more details refer fig. 01.



No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : HEPARAN SULFATE AND ITS MIMETICS AS CHEMOKINE INHIBITORS

(51) International classification :A61P0025160000, C07D0401140000, C07D0405120000, C07D0417120000, B29C0043000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Science Education and Research

Address of Applicant :Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)KIKKERI, Raghavendra

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

2)KUMAR, N. Vijendra

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

3)SHANTHAMURTHY, Chethan D

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

4)JAIN, Prashant

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

5)RAIGAWALI, Rakesh

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

6)Vered PADLER-KARAVANI

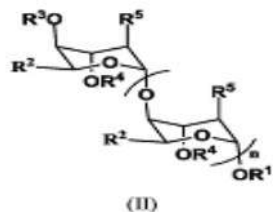
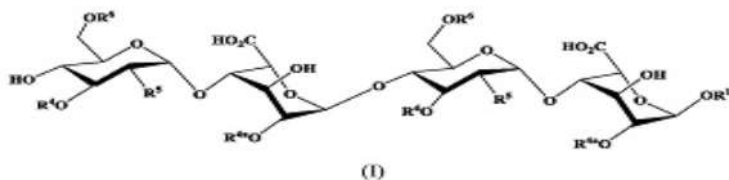
Address of Applicant :c/o Ramot at Tel-Aviv University Ltd., P.O. Box 39296 Tel Aviv 6139201, Israel. -----

7)LEVIATAN BEN-ARYE Shani

Address of Applicant :c/o Ramot at Tel-Aviv University Ltd., P.O. Box 39296 Tel Aviv 6139201, Israel. -----

(57) Abstract :

The present invention relates to a heparan sulfate compound of formula (I) & (II) or a pharmaceutically acceptable salt thereof and pharmaceutical composition containing them. The present invention also relates to a process for preparing the compound of formula (I) & (II) or a pharmaceutically acceptable salt thereof and use of the compound of formula (I) & (II) or a pharmaceutically acceptable salt thereof as chemokine inhibitors



No. of Pages : 82 No. of Claims : 11

(54) Title of the invention : ASSAY FOR DETERMINING TARGET ENGAGEMENT IN REAL-TIME IN LIVING SYSTEMS

(51) International classification :G01N0033680000, G01N0033542000, G01N0033500000, A01K0067027000, C12Q0001370000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Indian Institute of Science Education and Research**

Address of Applicant :Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)BRITTO S SANDANARAJ**

Address of Applicant :Department of Chemistry, Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

2)PUNITA BATHLA

Address of Applicant :Department of Biology, Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

3)ABHIJIT DE

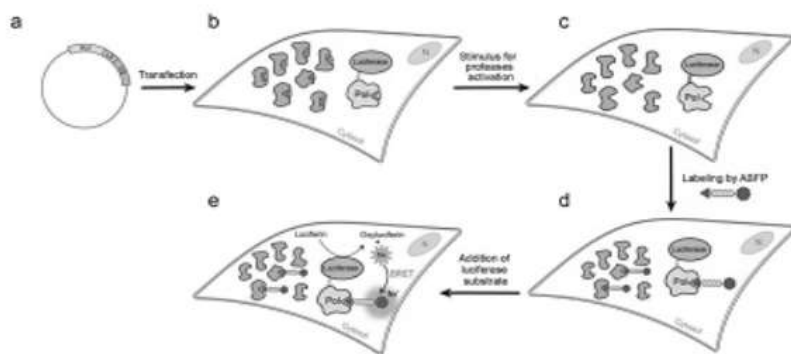
Address of Applicant :Molecular Functional Imaging Lab, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Tata Memorial Centre, Mumbai - 410210, Maharashtra, India. -----

4)Aaiyas Mujawar

Address of Applicant :Molecular Functional Imaging Lab, Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Tata Memorial Centre, Mumbai, India. -----

(57) Abstract :

The present disclosure relates to an assay for determining drug-target engagement in real-time. Specifically, the present disclosure provides a method for determining drug candidate-target interaction in real-time in living systems using Activity-based Reporter Gene Technology - Bioluminescence Resonance Energy Transfer (AbRGT-BRET) based assay. The said assay is useful for High Throughput Screening of compounds to a specific target.

**FIG. 1**

No. of Pages : 39 No. of Claims : 20

(54) Title of the invention : SYSTEM AND METHOD FOR EDGE MICROLENDING SERVICE

(51) International classification :G06N0007000000, G06Q0040020000, G06N0020000000, G06N0005040000, G06Q0030000000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :**1)JIO PLATFORMS LIMITED**

Address of Applicant :Office-101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad - 380006, Gujarat, India. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)KRISHNASWAMY, Dilip**

Address of Applicant :111, 3rd Cross, 3rd Block, Jayanagar, Bangalore - 560011, Karnataka, India. -----

2)MAHAJAN, Yash

Address of Applicant :1/13, Vijay Enclave, Ghodbunder Road, Thane(W) - 400607, Maharashtra, India. -----

3)RAJ, Pethuru

Address of Applicant :D 002, Prospect Princeton Apartment, Manipal County Road, AECS C Block, Bangalore - 560068, Karnataka, India. -----

4)GUPTA, Rajeev

Address of Applicant :A 604, Railway Officer Colony, Pali Hill, Carter Road, Bandra - 400050, Mumbai, Maharashtra, India. -----

(57) Abstract :

The present disclosure relates to system and method for an assisting edge microlending service. The method includes registering a lender and a borrower on a blockchain platform, retrieving raw data and processing the data to extract one or more features using data model, obtaining real time data from the lender and the borrower, processing the real time data, executing a smart contract microservice to process the microlending service, invoking the smart contract microservice for executing an inferencing machine learning model, predicting a probability for the lender and the borrower for assisting microlending service.

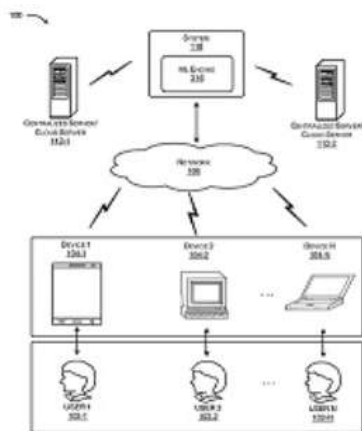


FIG. 1A



FIG. 1B

No. of Pages : 42 No. of Claims : 20

(54) Title of the invention : SYSTEM AND METHOD FOR MAPPING THE LIP ADJUSTMENT BOLTS OF A FLAT EXTRUSION DIE

(51) International classification :B29C0048300000, B29C0048080000, B29D0011000000, B29C0048310000, B29C0048305000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lohia Mechatronik Private Limited

Address of Applicant :Plot No. 115, Sub Plot No. 13, Ramtekdi Industrial Area, Hadapsar, Pune – 411013, Maharashtra, India (IN) -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Siddharth Lohia

Address of Applicant :7/209, Kalyani, Swaroop Nagar, Kanpur-208002, Uttar Pradesh, India (IN) -----

(57) Abstract :

ABSTRACT OF THE INVENTION SYSTEM AND METHOD FOR MAPPING THE LIP ADJUSTMENT BOLTS OF A FLAT EXTRUSION DIE A method to control die bolts of a flat extrusion die that calibrates a zero-line calibration thickness profile, measures a variation in thickness of a film/sheet 214 by temperature change of at least one lip adjustment bolt 206a, ..., 206n by a processor 122 and records a corresponding die bolt influence area. It further calculates a voltage correction factor of the at least one lip adjustment bolt 206a, ..., 206n based on the die bolt influence area using the measured variation in thickness at the at least one lip adjustment bolt position 206ap, ..., 206np and a variation in thickness at a mean lip adjustment bolt position 206ap, ..., 206np and actuates the at least one lip adjustment bolt 206a, ..., 206n by applying the voltage correction factor and correcting the variation in thickness of the film/sheet 214 to the zero-line calibration thickness. Fig. 1

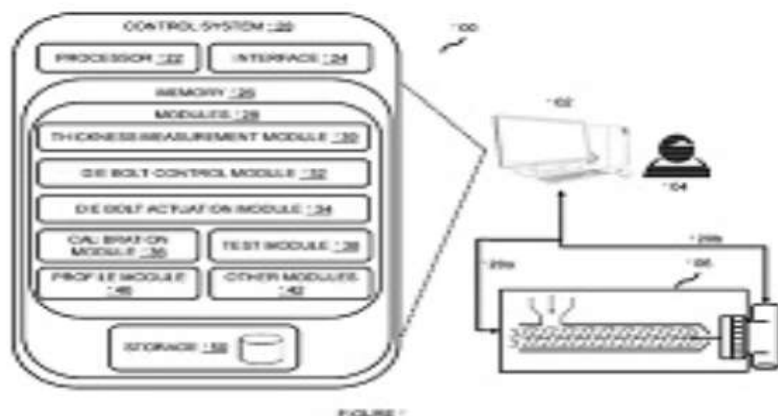


FIGURE 1

No. of Pages : 42 No. of Claims : 18

(54) Title of the invention : CHEMICAL OXYGEN GENERATOR

(51) International classification :C01B0013020000, A62B0021000000, A61F0007030000, A61M0005310000, F24V0030000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Science Education and Research

Address of Applicant :Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)RAPOL, Umakant D.

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

2)HOTHIA, Srinivas

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

3)NAIR, Sunil

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

4)PATEL, Kushal H.

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

5)DUTTA, Pranab

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

6)MAURYA, S. Sagar

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

7)BISWAS, Korak

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

8)DAS, Pratim Kumar

Address of Applicant :Indian Institute of Science Education and Research, Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. -----

(57) Abstract :

The present disclosure relates to an oxygen generator. In particular, the present disclosure pertains to a portable oxygen generator capable of producing controlled and continuous oxygen supply without any requirement of electrical energy from any source. The present disclosure further pertains to an oxygen generator capable of efficiently managing the highly exothermic chemical reaction, having an efficient design for foam/effervescence control and minimization and providing a safe delivery of oxygen to the user.

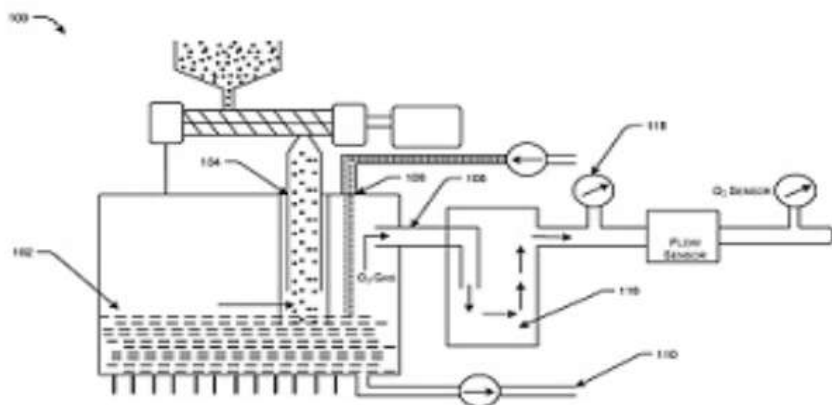


FIG. 1A

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121024884 A

(19) INDIA

(22) Date of filing of Application :04/06/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : IMPROVED EXTRACTION AND ISOLATION OF PHARMACEUTICALLY ACTIVE INGREDIENTS FROM MURRAYA KOENIGII

(51) International classification :A61K0036750000, C12N0015100000, G01N0033500000, A61K0031407000, H01L0021762000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dhanaji S. Suryavanshi

Address of Applicant :Dhanaji S. Suryavanshi Dr. D. Y. Patil College of Pharmacy, Dr. D. Y. Patil Educational Complex, Sector 29, Nigdi Pradhikaran, Akurdi, Pune 411044 -----

2)Dr. Shilpa P. Chaudhari

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dhanaji S. Suryavanshi

Address of Applicant :Dhanaji S. Suryavanshi Dr. D. Y. Patil College of Pharmacy, Dr. D. Y. Patil Educational Complex, Sector 29, Nigdi Pradhikaran, Akurdi, Pune 411044 -----

2)Dr. Shilpa P. Chaudhari

Address of Applicant :Dhanaji S. Suryavanshi Dr. D. Y. Patil College of Pharmacy, Dr. D. Y. Patil Educational Complex, Sector 29, Nigdi Pradhikaran, Akurdi, Pune 411044 -----

(57) Abstract :

The present invention relates to the extraction and isolation of pharmaceutically active ingredients from plant material, this invention relates to novel Isolation method of Koenimbine from Murraya koenigii extract by flash chromatography. It also provide novel characterization method for the identification of active principles extracted from the plant Murraya koenigii

No. of Pages : 27 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121038151 A

(19) INDIA

(22) Date of filing of Application :23/08/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : POLYHERBAL CREAM FORMULATION AND METHOD OF MAKING THEREOF

(51) International classification :A61K0036740000, A61K0036530000, A61K0036580000, A61K0036185000, A61K0036540000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAMEER SHAFI

Address of Applicant :Center for Research in Pharmaceutical science (CRPS) Nanded Pharmacy college, Shyam Nagar, Nanded (M.S.), 431605, Maharashtra, India. -----

2)DR. GIRIDHAR R. SHENDARKAR

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SAMEER SHAFI

Address of Applicant :Center for Research in Pharmaceutical science (CRPS) Nanded Pharmacy college, Shyam Nagar, Nanded (M.S.), 431605, Maharashtra, India. -----

2)DR. GIRIDHAR R. SHENDARKAR

Address of Applicant :Nanded Pharmacy College (Poly), Shyam Nagar, Nanded- 431605 Maharashtra, India. -----

(57) Abstract :

The present invention is related to polyherbal cream formulation comprising extracts of Ocimum sanctum, Rubia cordifolia and Glycyrrhiza glabra and the process of preparing the same. The Polyherbal cream is useful for the treatment of skin and soft tissue infections.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : DAMPING CONTROL SYSTEM FOR SUSPENSION OF A MOTOR VEHICLE

(51) International classification :F16F0009320000, F16F0009440000, F16F0009460000, F02C0009260000, F16F0009540000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ENDURANCE TECHNOLOGIES LIMITED

Address of Applicant :E-92, M.I.D.C. Industrial Area, Waluj, Aurangabad - 431136 Maharashtra, India -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Agnideep A. Ray

Address of Applicant :Endurance Technologies Ltd., E-93, M.I.D.C. Industrial Area, Waluj, Aurangabad – 431136 Maharashtra, India -----

2)Kishor G. Kothe

Address of Applicant :Endurance Technologies Ltd., E-93, M.I.D.C. Industrial Area, Waluj, Aurangabad – 431136 Maharashtra, India -----

3)Ravindra V. Kharul

Address of Applicant :Endurance Technologies Ltd., E-93, M.I.D.C. Industrial Area, Waluj, Aurangabad – 431136 Maharashtra, India -----

(57) Abstract :

ABSTRACT Title: Damping Control System for Suspension of a Motor Vehicle The invention is a damping control system (100) in suspension of a motor vehicle comprising of at least a preload adjustment assembly (50), an Electronic Control Unit (52), sensor (42), actuation mechanism (10), a communication module (44) and a suspension unit (60). The damping control system (100) requires only one suspension unit mounted sensor to reliably sense change in position of the spring preload adjuster. The damping control system (100) automatically adjusts and balances the damping force against any adjustment made to the spring preload, based upon sensed change in position of the preload adjuster. The damping control system (100) can also accept user input to modulate the damping adjustment that is given to the suspension unit. Refer Fig. 1a.

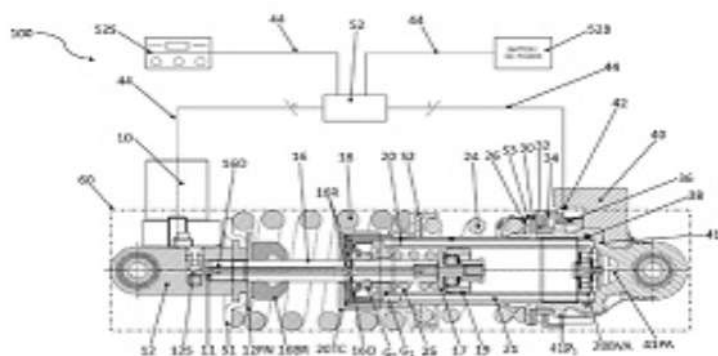


Fig. 1a

No. of Pages : 42 No. of Claims : 15

(54) Title of the invention : A SYSTEM FOR MONITORING THE HEALTH OF A TWO-WHEELED VEHICLE USER

(51) International classification :A63B0022060000, A63B0024000000, G06F0017000000, A61B0005000000, G01C0022000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JADHAV, Sachin Anant

Address of Applicant :A-5 Echinus Court, Balewadi, Pune - 411045, Maharashtra, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)JADHAV, Sachin Anant

Address of Applicant :A-5 Echinus Court, Balewadi, Pune - 411045, Maharashtra, India -----

(57) Abstract :

ABSTRACT A SYSTEM FOR MONITORING THE HEALTH OF A TWO-WHEELED VEHICLE USER The present disclosure relates to and envisages system (1000) for monitoring the health of a two-wheeled vehicle user. The system (1000) comprises an input module (100) for receiving a plurality of user specific input values, a plurality of sensors, a computing module (200) and an output module (300). The sensors are mounted on the vehicle to sense the mass of the user and the speed of the vehicle. The computing module (200) is coupled to the input module (100) and the sensors for receiving the input values and the sensed values to calculate health parameters of the user including calories burnt while riding and BMI value. The output module is configured to display the calculated values of the health parameters.

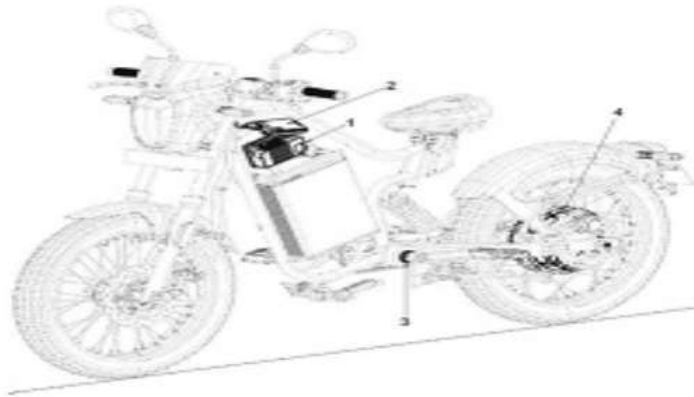


FIGURE 1

No. of Pages : 25 No. of Claims : 9

(54) Title of the invention : AUTOMATIC GRAIN DISPENSING AND PACKAGING MACHINE

(51) International classification :B65B0005100000, C08K0003340000, B65B0039000000, B65B0001300000, A23G0009040000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Dr. D. Y. Patil Institute of Technology, Pimpri, Pune

Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Prof. Ganesh N. Bhalerao

Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

2)Prof. Kewal D. Sarode

Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

3)Dr. Amit S. Chaudhari

Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

4)Dr. Kishor B. Waghulde

Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

5)Dr. Kishor K. Dhande

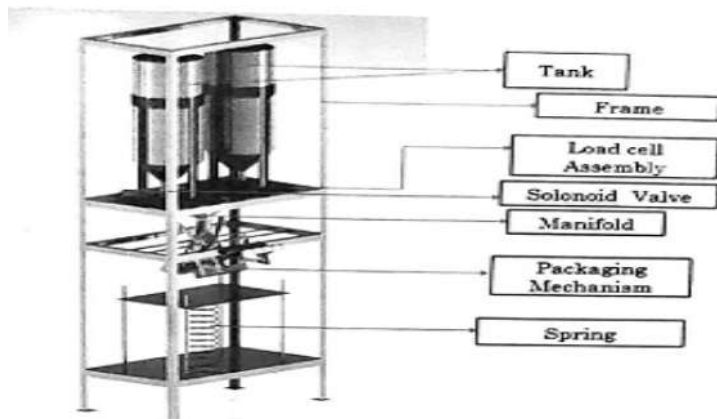
Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

6)Dr. Atul A. Patil

Address of Applicant :Dr. D. Y. Patil Institute of Technology, Sant Tukaram Nagar, Pimpri, Pune 411018 -----

(57) Abstract :

The invention was related to Mechatronics which is used to packaging and vending virtually all kind of free flowing solids. By using this machine Solid granular uneven shaped products can be handled by one machine. It is Micro controller based User friendly machine. In this system all the details are getting on the screen for the user. This packaging equipment handles grocery items such as rice, pulses, chana dal, toor dal, sugar, wheat, tea powder, green peas, white mutter and other items such as Namkeens, farsans, Chips, Frymes and similar products without any change parts or making changes in the settings, one can keep on toggling with different materials & different target weights on the same packing machine. This machine is used for dispensing and packing various types of grains in simple steps. Self learning software eliminates tedious settings in this machine. Timer, Auto dumping, Foot switch facilities are provided for packing the Products. In this machine there are no wear & tear as no moving parts in machine. Also gives Flexibility of operation and production. This system eliminates inaccuracy in the measurement of grains during dispensing and packaging.



No. of Pages : 14 No. of Claims : 3

(54) Title of the invention : METHOD AND SYSTEM FOR LIVE-INTERACTIVE ONLINE SHOPPING

(51) International classification :G06Q0030060000, H04N0021218700, H04L0029060000, H04W0004800000, H04N0021258000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SMOOTH TAG TECHNOLOGIES PRIVATE LIMITED

Address of Applicant :A 603, Emrold Court, Indore, Indore, Madhya Pradesh, 452001 -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)ALOK CHAWLA

Address of Applicant :44 Munish Building, L B S marg, Mulund West, Mumbai 400080 -----

(57) Abstract :

There is disclosed a system for acquiring at least one item of choice, in a live streaming session, including a at least one seller computing device, at least one buyer computing device and an application executable in the at least seller computing device and the at least one buyer computing device. The application causes the at least one buyer computing device to view the at least one seller computing device showing availability of the at least item, select a seller computing device from the at least one available seller computing device, establish a live video stream between the selected computing device and the at least one buyer computing device, determine the at least one item of choice for acquisition during the live video stream and select a mode of delivery for the acquired item during the live video stream.

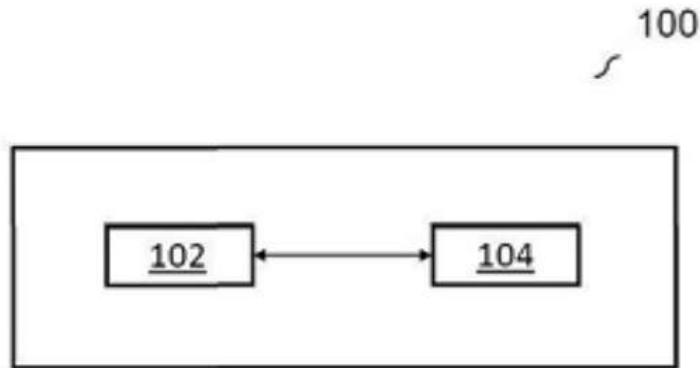


Fig. 1

No. of Pages : 24 No. of Claims : 12

(54) Title of the invention : A HERBAL COMPOSITION

(51) International classification :A61K0045060000, A23L0033000000, A61K0036280000, A61Q0019080000, A61K0009200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

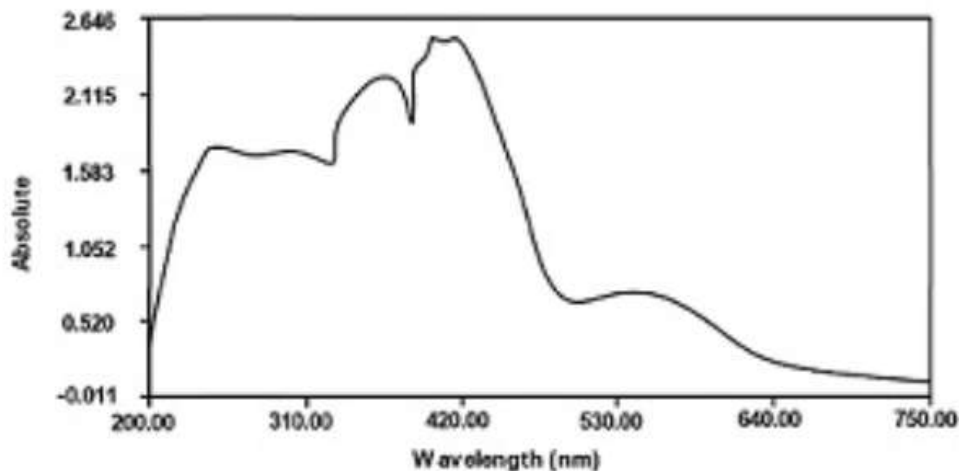
1)Dr. Huma AliAddress of Applicant :158-A sector Nizamuddin colony
BHEL Bhopal Madhya Pradesh India 462 021 -----**2)Dr. Savita Dixit****Name of Applicant : NA****Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Huma AliAddress of Applicant :158-A sector Nizamuddin colony BHEL
Bhopal Madhya Pradesh India 462 021 -----**2)Dr. Savita Dixit**Address of Applicant :Department of Chemistry, Maulana Azad
National Institute of Technology Bhopal Madhya Pradesh India
462 007 -----

(57) Abstract :

AN HERBAL COMPOSITION Disclosed is an herbal composition which when administered in a therapeutically amounts is effective for treatment of cancer, in particular, skin cancer. The herbal composition comprising Aloin in an amount in the range of 18 wt. % to 22 wt. %, Quercetin in an amount in the range of 18 wt. % to 22 wt. %, Rutin in an amount in the range of 18 wt. % to 22 wt. %, Palmatine in an amount in the range of 18 wt. % to 22 wt. %, and Stigmasterol in an amount in the range of 18 wt. % to 22 wt. %. The herbal composition is employed for treatment of skin cancer and is orally administered in an amount in the range of 300 mg/Kg to 500 mg/Kg of body weight three times per week for a time period in the range of 15 weeks to 20 weeks

**FIG. 1**

10

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : DR. VITHALRAO VIKE PATIL FOUNDATION'S MEDICAL COLLEGE PRESENTS MOOT COURT SET-UP : NOVEL TEACHING -LEARNING METHOD IN MEDICAL EDUCATION

(51) International classification :G06Q0050200000, G09B0005060000, A61L0015240000, G09F0015000000, A61M0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR.SANDEEP SITARAM KADU

Address of Applicant :D-2, STAFF QUARTERS, DVVPF'S MEDICAL COLLEGE, VILAD GHAT, AHMEDNAGAR - 414011, MAHARASHTRA, INDIA. -----

2)DR.SUNIL NATHA MHASKE

3)DR.ABHIJIT DILIPRAO DIWATE

Name of Applicant : NA

Address of Applicant : NA

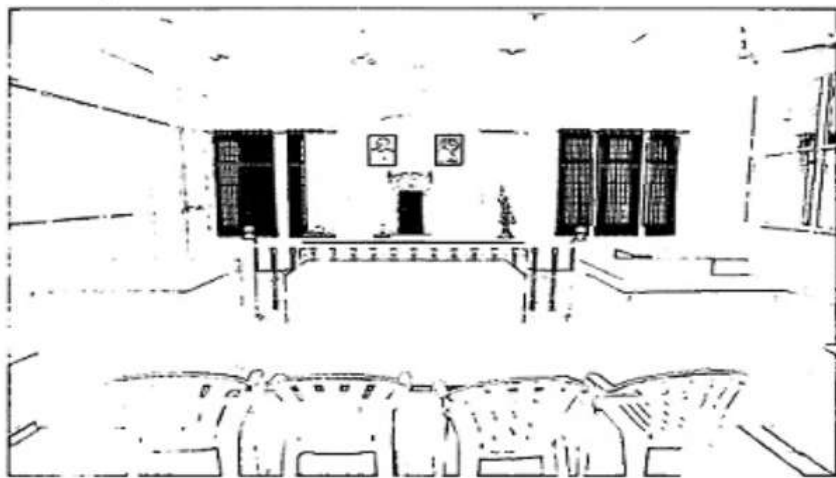
(72)Name of Inventor :

1)DR.SANDEEP SITARAM KADU

Address of Applicant :D-2, STAFF QUARTERS, DVVPF'S MEDICAL COLLEGE, VILAD GHAT, AHMEDNAGAR - 414011, MAHARASHTRA, INDIA. -----

(57) Abstract :

Moot is an old legal term. It originated in the twelfth century and meant either A meeting, an assembly of people, esp. one for judicial or legislative purposes, or the place the meeting was held, according to The Oxford English Dictionary. It evolved to mean an argument, then litigation. Mooting is procedure which imitates the real courts evidence procedure. It includes judge's entry, the mooters and the judge bow to each other, the clerk announces the matter, the mooters give their appearances and are then called to present their submissions, the judge asks questions of the mooters, the court adjourns, and the judge then returns to deliver a brief judgment and some feedback. Moot court motivates students to think deeply about interesting medico- legal issues and to work closely with and learn from their peers. Most students find mooting to be intellectually rewarding and highly enjoyable. Dr. Vithalrao Vikhe Patil Foundation's Medical College's Moot Court Set-up gives opportunity to experience real court procedures at their second year M.B.B.S student life. With this real time experience our college medical student gets confidence and awareness regarding different court procedures and in turn will help to eradicate the phobia of court evidences. OBJECTIVES OF INVENTION: 1) To experience conceptual and practical aspects of different court procedure at undergraduate level. 2) To eradicate phobia of court calls from the minds of budding Indian Medical Graduates (IMG). CONCLUSION: Dr. Vithalrao Vikhe Patil Foundation's Medical College Presents Moot Court Set-up: Novel Teaching-Learning Method in Medical Education which will help budding Indian Medical Graduates (IMG) to experience real court procedures at their undergraduate level. IMG will give confidently the correct evidence in court of law which in turn will help to maintain law and order in society.



No. of Pages : 9 No. of Claims : 2

(54) Title of the invention : THE COST-EFFECTIVE AUTOMATION SYSTEM IN THE CLOTH INDUSTRY, SHOPS, AND IT HELPS TO UNDERSTAND CUSTOMER'S CHOICE.

(51) International classification :G06Q0030060000, G06Q0010080000, D03D0001000000, A47F0003060000, B29C0033000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Madhukar Digambar Jakkan

Address of Applicant :330,Jodbhavi peth -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Madhukar Digambar Jakkan

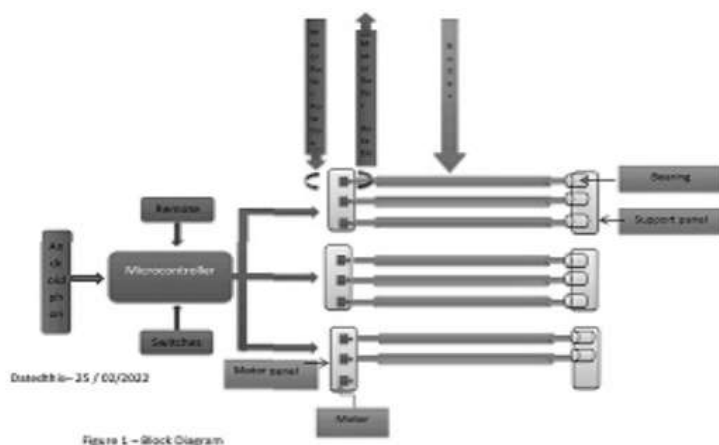
Address of Applicant :330,Jodbhavi peth -----

2)Savita Madhukar Jakkan

Address of Applicant :330,Jodbhavi Peth,Solapur.413002 -----

(57) Abstract :

The cost-effective Automation system in the Cloth industry, shops, and it helps to understand customer's choice. The main objective of this Invention is to provide service in cloth Industry, shop and make fast service to the customers at a low cost to the manufacture, shopkeepers and domestic by reducing the manpower. This helps in proper presentation, Inventory management of clothes and helps in getting the work done quickly and neatly. Software (Computer programing) which helps to understand customers' choices. There are several stages in the textile industry such as textile manufacturing, (Cloths, Saree (Sadi), towels, bed sheets, curtains, and other textiles) Roll, Fold, sales, layout, and exhibition. This requires a large amount of manpower. The main objective of this Invention is to reduce the need for manpower at different stages of the business and in Domestic. This will reduce maximum manpower in cloth showroom this will increase profit of shopkeeper, owners. With the help of modernization in the areas of manufacturing, Roll, Fold, sales, and services, this new technology will also provide more attractive, convenient, Inventory management and affordable services to customers.



No. of Pages : 13 No. of Claims : 8

(54) Title of the invention : HARDWARE ACCELERATOR FOR GABOR WAVELETS

(51) International classification :G06F0013400000, G06T0001200000, G06F0030330000, G06K0009000000, H04L0029060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)National Institute of Technology Goa

Address of Applicant :Farmagudi, Ponda, Goa, India 403401 -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Aswini K. Samantaray

Address of Applicant :Department of Electrical & Electronics Engineering, National Institute of Technology Goa, Farmagudi, Ponda, Goa, India -----

2)Pranose J. Edavoor

Address of Applicant :C-DAC, Bengaluru, Karnataka, India -----

3)Amol D. Rahulkar

Address of Applicant :Department of Electrical & Electronics Engineering, National Institute of Technology Goa, Farmagudi, Ponda, Goa, India -----

(57) Abstract :

The present invention relates to system of hardware acceleration for Gabor wavelet used for enhancing processing speed with reducing hardware . The objective of the present invention is to solve the problems in the prior art technologies related to design of designing and implementing a hardware accelerator for Gabor wavelet. The present design provides increase in speed of operation with reduced hardware in image and video processing applications.

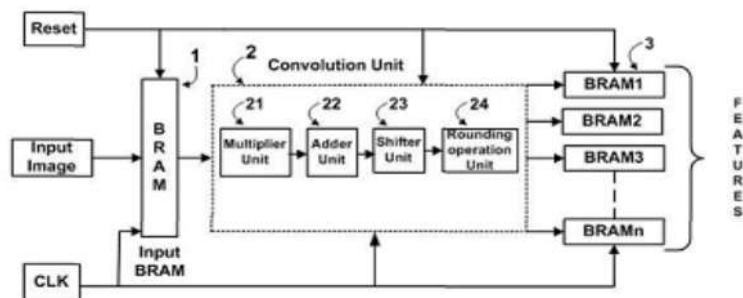


Figure 1

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221017492 A

(19) INDIA

(22) Date of filing of Application :26/03/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : INDOLE DERIVATIVES AND PROCESS FOR THEIR PREPARATION

(51) International classification :A61K0031404500, C07D0209120000, A61K0031538000, C07D0403120000, C07D0209300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)1. SHOBHABEN PRATAPBHAI PATEL SCHOOL OF PHARMACY & TECHNOLOGY MANAGEMENT

Address of Applicant :SVKM's Narsee Monjee Institute of Management Studies, V.L.Mehta Road, Vile Parle (W), Mumbai – 400 056 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Kapil Juvele

Address of Applicant :SVKM's Narsee Monjee Institute of Management Studies, V.L.Mehta Road, Vile Parle (W), Mumbai – 400 056 -----

2)Mr. Sachin Puri

Address of Applicant :SVKM's Narsee Monjee Institute of Management Studies, V.L.Mehta Road, Vile Parle (W), Mumbai – 400 056 -----

(57) Abstract :

As submitted with Form 2

No. of Pages : 39 No. of Claims : 13

(54) Title of the invention : NOVEL TRI-BAND HIGH GAIN BROADSIDE FREQUENCY RECONFIGURE ANTENNA FOR WI-FI, 5G AND WI-MAX APPLICATIONS

(51) International classification :H01Q0009040000, H04B0001000000, H01Q0009140000, H01L0029780000, H01Q0005357000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Rashmi A.Pandhare

Address of Applicant :Assistant Professor , IIIT Nagpur, Nagpur, Maharastra -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rashmi A.Pandhare

Address of Applicant :Assistant Professor , IIIT Nagpur, Nagpur, Maharastra -----

2)Mahesh P. Abegaonkar

Address of Applicant :Associate Professor, IIT Delhi, New Delhi - -----

3)Fateh Lal Lohar

Address of Applicant :PhD Scholar, VNIT Nagpur, Nagpur Maharastra, India -----

(57) Abstract :

The present invention deals with frequency reconfigurable technique used to obtain a frequency reconfigurable antenna (19) with broadside high gain radiation characteristics for multiple wireless applications. The present invention is about a novel tri band frequency reconfigurable antenna (19) configured to work on 2.4 GHz, 3.5GHz, and 5.2GHz with broadside high gain radiation characteristics with utilization of dominant modes and higher order modes for multiband applications. The present antenna (19) is configured to operate for different 8 operating bands (3 single bands, 3 dual bands, 1 triband and 1 jammer band). The present invention is a new reconfigurable technique using PIN diodes, which makes antenna (19) radiate at multiple frequencies and reduce the cost and complexity of the antenna design without reducing its gain.

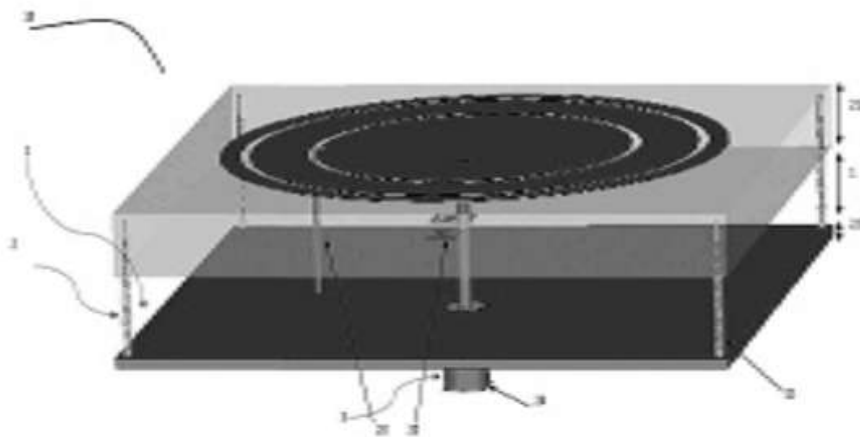


FIGURE 1

No. of Pages : 30 No. of Claims : 8

(54) Title of the invention : A SYSTEM AND A METHOD FOR RE-CHARGING BATTERY OF AN ELECTRIC VEHICLE

(51) International classification :H02J0007000000, H02J0007340000, B60L0008000000, B60L0058210000, H02J0050400000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)ALI MOHAMMAD SAYYED

Address of Applicant :H. NO -1266, PROP. NO -1268, OLKAIWADI, KUSGAON ROAD, LONAVALA, MAHARASHTRA, INDIA - 410401 -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)ALI MOHAMMAD SAYYED

Address of Applicant :H. NO -1266, PROP. NO -1268, OLKAIWADI, KUSGAON ROAD, LONAVALA, MAHARASHTRA, INDIA - 410401 -----

2)RAHUL BHASKAR KAMBALE

Address of Applicant :SILVER OAKS SOCIETY, FLAT NUMBER - B103 GAIKWAD WASTI, MOSHI, PUNE, MAHARASHTRA, INDIA - 412105 -----

(57) Abstract :

A system (10) for re-charging battery (130) of an electric vehicle is provided. The system includes a first gear (20) to rotate corresponding to rotation of the axle shaft (30) of the electric vehicle. The system includes a second to rotate corresponding to rotation of the first gear. The system includes a dynamo unit (50) to provide alternating current (AC) voltage corresponding to rotation of the second gear (40). The system includes a converter unit (60) to generate direct current (DC) voltage by converting the alternating current (AC) voltage provided by the dynamo unit. The system includes a voltage control unit (70) to charge a plurality of capacitor units (80) by deriving a predefined charging current from the direct current (DC) voltage provided by the converter unit. The system includes a control unit (90) to discharge the plurality of capacitor units sequentially to re-charge the battery of the electric vehicle, thereby re-charging the battery (130) of the electric vehicle. FIG. 1

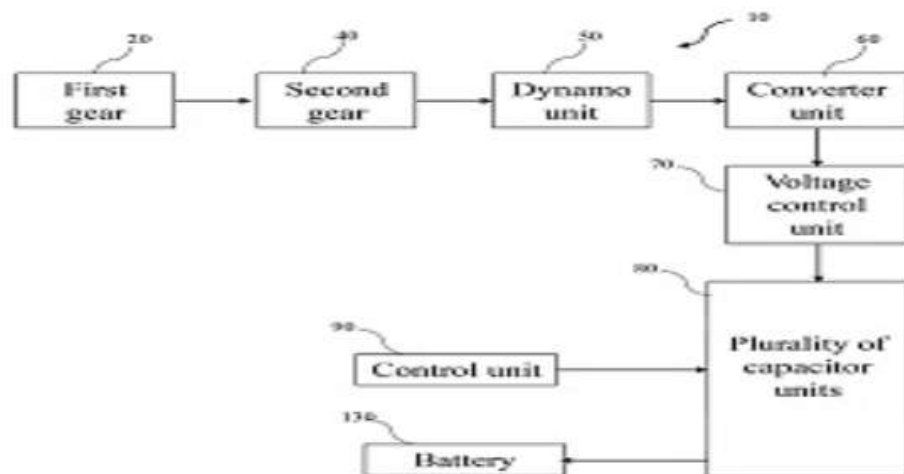


FIG. 1

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : PORTABLE ELECTRIC VEHICLE TO ELECTRIC VEHICLE CHARGING SYSTEM AND ITS CONTROL METHOD

(51) International classification :B60L0053300000, B60L0053140000, B60L0053660000, B60L0053650000, H02J0007020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)National Institute of Technology Goa**

Address of Applicant :Near ITI College, Farmagudi, Ponda, Goa, India. Pin: 403401 -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Madhu G M**

Address of Applicant :Research Scholar, Department of Electrical & Electronics Engineering, National Institute of Technology Goa - -----

2)Anju Mathew

Address of Applicant :Scientist/Engineer-SC, Vikram Sarabhai Space Centre, Department of Space, Thiruvananthapuram -----

3)Chintamani Vyjayanthi

Address of Applicant :Associate Professor, Department of Electrical & Electronics Engineering, National Institute of Technology Goa -----

4)Chirag Modi

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, National Institute of Technology Goa -----

5)Nivedita Naik

Address of Applicant :Research Scholar, Department of Electric and Electronics Engineering, National Institute of Technology Goa -----

(57) Abstract :

The present invention is related to a development of a portable electric vehicle to vehicle charging system with an electrical isolation (207) between the two electric vehicles (101, 105). The disclosed invention is intended to provide a system (301) and a control technique (302) for constructing an electric vehicle to electric vehicle charger that can be utilized to intelligently charge an electric vehicle (105) from another electric vehicle (101) on the road in order to alleviate range issues and possibly on-road blocking out.

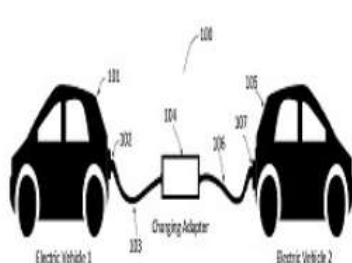


FIGURE 1

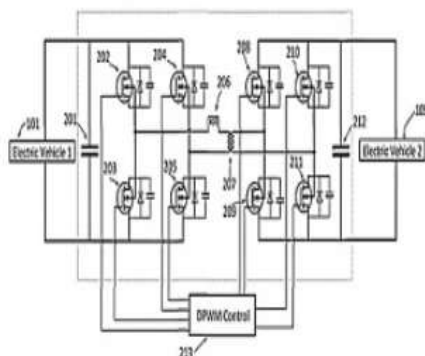


FIGURE 2

(54) Title of the invention : ANTI-HAIL GUN FOR PREVENTING FORMATION OF HAIL STONES AND A METHOD THEREOF

(51) International classification :A01G0013020000, F23R0007000000, H01L0021311000, A01G0015000000, G02B0006300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology Bombay

Address of Applicant :Powai, Mumbai-400076, Maharashtra, India ---

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shubham Chauhan

Address of Applicant :Department of Aerospace Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

2)Mohammed Kalamuddin Ansari

Address of Applicant :Department of Aerospace Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

3)Saran Lakshmayyah Solagar

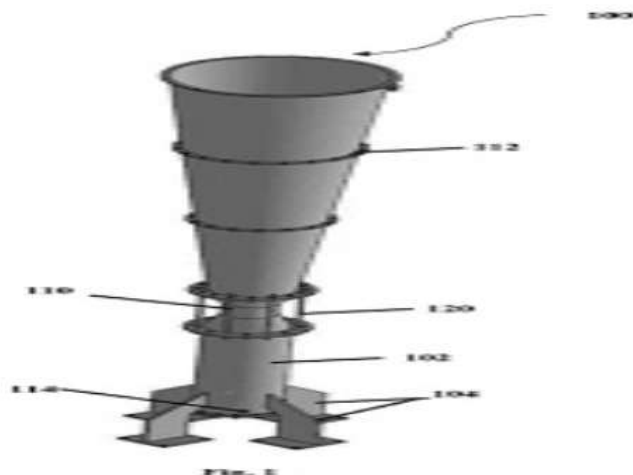
Address of Applicant :Department of Aerospace Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

4)Sudarshan Kumar

Address of Applicant :Department of Aerospace Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India -----

(57) Abstract :

ABSTRACT ANTI-HAIL GUN FOR PREVENTING FORMATION OF HAIL STONES AND A METHOD THEREOF The embodiments herein achieve an anti-hail gun which uses economical and easily accessible fuel to achieve sustained detonation and thereby prevent formation of hail stones. Further, the embodiments herein achieve the anti-hail gun which achieves sustained detonation using liquefied petroleum gas (LPG)-air mixture. Furthermore, the embodiments herein achieve the anti-hail gun which includes a spiral coil (or member) designed to effectively enhance the deflagration to detonation transition (DDT wave) and to generate a detonation wave within a shorter length of a combustion chamber for a LPG-air mixture. Additionally, the embodiments herein achieve the anti-hail gun which is easy to manufacture and has low operational and maintenance cost. Moreover, the embodiments herein achieve a method for generating detonation waves using an anti-hail gun to prevent formation of hail stones. FIG. 1



No. of Pages : 26 No. of Claims : 14

(54) Title of the invention : CHEMICAL FRACTIONATION AND BIOAVAILABILITY OF SELECTED HEAVY METALS IN SEDIMENTS OF RIVER

(51) International classification :A61K0033340000, A62D0101430000, B09C0001080000, A23L0033105000, A61K0031702000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Iqbal Najiroadin Shaikh

Address of Applicant :Vice Principal, Head and Associate Professor, Department of Chemistry Poona College of Arts, Science and Commerce, Camp, Pune Pin:411001 State: Maharashtra Country: India -----

2)Dr. Shaikh Shafikh Mahebub**3)Dr. Shaikh Faazil Shaikh Raheem****4)Dr. Chavre Bhagwat Walmik****5)Dr. Syed Abrar Ahmed**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Iqbal Najiroadin Shaikh

Address of Applicant :Vice Principal, Head and Associate Professor, Department of Chemistry Poona College of Arts, Science and Commerce, Camp, Pune Pin:411001 State: Maharashtra Country: India -----

2)Dr. Shaikh Shafikh Mahebub

Address of Applicant :Assistant Professor,Head, Department - Department of Botany Poona College of Arts Science and Commerce, Camp, Pune Pin:411001 State: Maharashtra Country: India -----

3)Dr. Shaikh Faazil Shaikh Raheem

Address of Applicant :Assistant Professor Department of Chemistry Poona College of Arts Science and Commerce, Camp, Pune Pin:411001 State: Maharashtra Country: India -----

4)Dr. Chavre Bhagwat Walmik

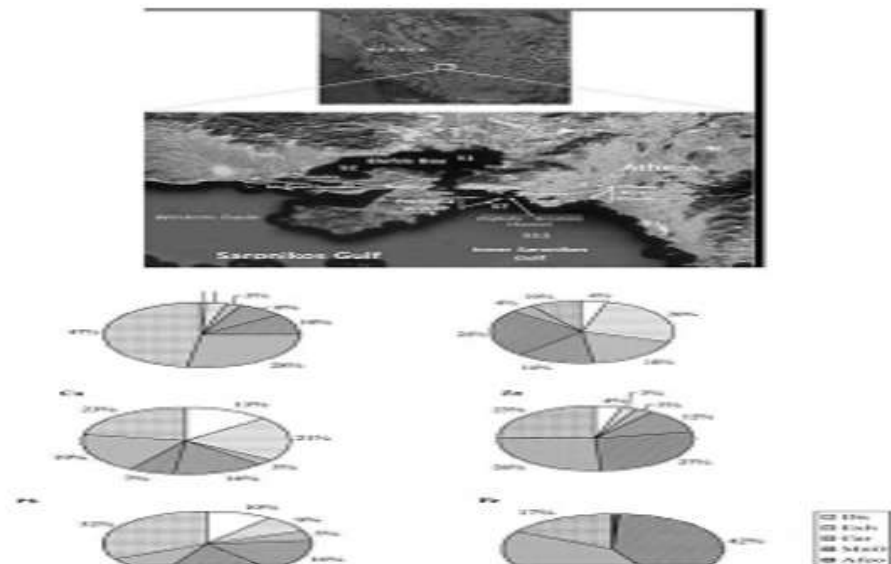
Address of Applicant :Assistant Professor, Head, Department - Department of Botany MVP Samajs, Arts, Commerce and Science College, Nandgaon, Dist. Nashik Pin: 422206 State: Maharashtra Country: India -----

5)Dr. Syed Abrar Ahmed

Address of Applicant :Assistant Professor Department of Botany Government college of Arts and Science, Kile Ark, Aurangabad. Pin: 431001 State: Maharashtra Country: India -----

(57) Abstract :

Chemical Fractionation and Bioavailability of Selected Heavy Metals in Sediments of River Abstract: The chemical fractionation of metals such as lead, cobalt, and chromium found in soils surrounding India's Lakwa oil field was investigated via sequential extraction. This is true for each of the seven heavy metals examined. According to the study, the most critical aspect is the residual percent. For non-residual fractions, the most critical connection between metals and Fe-Mn oxides is that they are most closely related to this group. Copper, cadmium, zinc, and lead are the top three most toxic heavy metals that can have a detrimental effect on human health. The carbonate fraction contains a greater concentration of lead (Pb) than other metals. This is true in the winter as well as the summer. Due of lead's toxicity, it may be hazardous to the environment; therefore The exchangeable fraction contains modest metal concentrations, indicating that these metals are not very bioavailable. Soils and metal fractions may not necessarily exhibit the same physicochemical properties. When compared to recognized criteria of normal abundance and geological background, local mean metal levels are two to four times greater than in the past. These statistics are consistent with a healthy population of the species. The way metals interact with the earth at this place may be significantly influenced by human actions.



(54) Title of the invention : A WATER RECYCLING VEHICLE WASHING SYSTEM AND METHOD THEREOF

(51) International classification :C02F0001000000, B60S0003040000, C02F0009000000, C02F0001280000, B08B0003020000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)GREENWASH HOLDINGS PVT. LTD.

Address of Applicant :8th Floor Regent Chambers, Nariman Point, Mumbai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

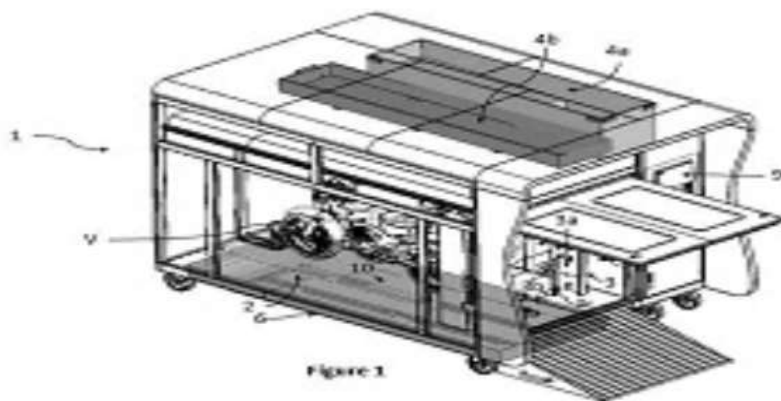
1)SHAH, Rushang

Address of Applicant :Flat no. 6 Burhani Mahal, 2nd Floor, 59 Napean Sea Road Mumbai Maharashtra -400006 -----

--

(57) Abstract :

A water recycling vehicle washing system and method thereof Abstract of the Invention Disclosed herein a water recycling vehicle washing system (1), comprising a washing compartment (2) for washing of the vehicle (V), a water source (4) configured to supply water to the washing compartment, a water recycling and treatment system (5), comprising, a pre-treatment tray (6) situated below the washing compartment (2) and designed to longitudinally inclined from one side towards its outlet side (7a), and a water treatment unit (8) operably connected with the outlet (7) of the pre-treatment tray; and, wherein said water recycling and treatment system (5) operably connected to the main water source (4a and 4b), by way of the water treatment unit (8), is configured to maintain quality of water during recycling so as to maximize wash number and ensure an efficient washing in each wash of the vehicles (V).



No. of Pages : 17 No. of Claims : 17

(54) Title of the invention : AN AUTOMATED VEHICLE WASHING SYSTEM AND METHOD THEREOF

(51) International classification :B60S0003040000, G11B0027100000, G01S0019140000, B01F0001000000, B01J0014000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GREENWASH HOLDINGS PVT. LTD

Address of Applicant :8th Floor Regent Chambers, Nariman Point, Mumbai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHAH, RushangAddress of Applicant :Flat no. 6 Burhani Mahal, 2nd Floor, 59 Napean Sea Road, Mumbai Maharashtra-400006 -----
--

(57) Abstract :

An automated Vehicle Washing System and Method thereof Abstract of the Invention Disclosed herein a mobile automated vehicle washing system, wherein, said system comprising a leakage proof enclosure (2), wherein the enclosure (2) comprising first compartment (3) comprising a gantry assembly slidably mounted on a rail guided ceiling (10) of the first compartment (3) for washing, cleansing and drying of the vehicle (V), and second compartment (4) housed with a chemical mixing system (21) and a controller (7) functionally configured to control the gantry assembly (11), chemical mixing system and a water recycling and treatment system (6) connected operably with the enclosure (2) on its exterior surface, wherein the gantry assembly (11) comprises of a plurality of boom sprayers (13) and a coaxial self-rotatable washing mechanism (14) for efficient washing of the vehicle (V). A time efficient method for high quality vehicle washing is also disclosed in this invention.

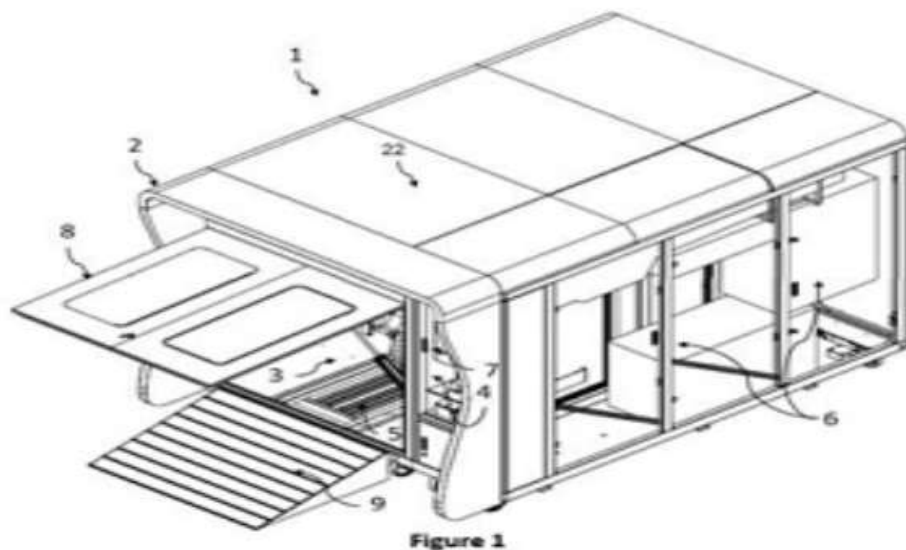


Figure 1

No. of Pages : 30 No. of Claims : 27

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED BRAINWAVE AUTOMATION SYSTEM

(51) International classification :A61B0005047600, A61B0005000000, E05B0065100000, H04L0012280000, A61K0031550000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)R. John Martin

Address of Applicant :Faculty of Computer Science and Information Technology, Jazan University, KSA -----

2)Jehan kadhim Shareef Al-safi**3)Dr. Darshanaben D. Pandya****4)Dr. Anilkumar Suthar****5)Abhishek Umeshbhai Parikh****6)Dr. Sheshang Degadwala**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)R. John Martin

Address of Applicant :Faculty of Computer Science and Information Technology, Jazan University, KSA -----

2)Jehan kadhim Shareef Al-safi

Address of Applicant :Doctor in Artificial Intelligence, Digital Media ,Faculty of media, University of Thi-Qar, Thi-Qar, Iraq -----

3)Dr. Darshanaben D. Pandya

Address of Applicant :Assistant professor, Department of computer science, College : Shri C. J Patel college of computer studies (BCA), Visnagar -----

4)Dr. Anilkumar Suthar

Address of Applicant :Director, New L J Institute of Engineering and Technology, M-403, Shukan Sky, Near City Pulse Campus, Kudasan, Gandhinagar, Gujarat-382421 -----

5)Abhishek Umeshbhai Parikh

Address of Applicant :Research Scholar, 174, Dharmanagar Soc. Part 2, Sabarmati, Ahmedabad, 380005, Gujarat, India -----

6)Dr. Sheshang Degadwala

Address of Applicant :Associate Professor, Sigma Institute of Engineering Engineering Block, Sigma Group of Institutes, Ajwa-Nimeta Road, Bakrol, Vadodara, Gujarat - 390019, India -----

(57) Abstract :

The present invention relates artificial intelligence based brainwave automation system. The product uses a brainwave sensor which tracks the attention ratio of the patient to identify his/her emotional status. A display screen with various options for the patient to choose from is connected using Bluetooth with the sensor. The patient can easily communicate with the attendant or request for service through his eye blinks. The prototype is built with two functionalities of food and panic alert alone. The same can also be extended with few of more functionalities of providing connectivity to entertainment and internet also by including simple options on the application screen. As the brainwaves are continuously monitored, any note of panic or abnormal signal identification can also be sent as notification to the caretaker.

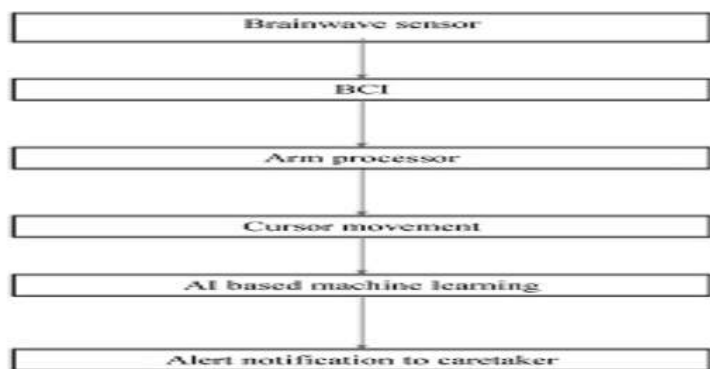


Figure 1 shows a block diagram representation of system of artificial intelligence based brainwave automation system.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/04/2022

(21) Application No.202221024495 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN IOT AND MACHINE LEARNING BASED METHOD OF COMMUNICATING A DIGITAL MESSAGE WITH AN INFORMATION SIGNAL

(51) International classification :H04L0029080000, H04L0009060000, H04L0009320000, H04W0004120000, G06T0001000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Sheshang Degadwala

Address of Applicant :Associate Professor, Sigma Institute of Engineering, Engineering Block, Sigma Group of Institutes, Ajwa-Nimeta Road, Bakrol, Vadodara, Gujarat - 390019, India -----

2)Dr. Bharat Kaushik

3)Dr. Darshanaben D. Pandya

4)Dr. Bhubaneswari Bisoyi

5)Dr. Amit Mittal

6)Dr. Sandeep Kumar Sunori

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sheshang Degadwala

Address of Applicant :Associate Professor, Sigma Institute of Engineering, Engineering Block, Sigma Group of Institutes, Ajwa-Nimeta Road, Bakrol, Vadodara, Gujarat - 390019, India -----

2)Dr. Bharat Kaushik

Address of Applicant :PAHM®, PhD (H.C.), A - 112, Shakti Apartments, Sector 9, Rohini, Delhi - 110085 -----

3)Dr. Darshanaben D. Pandya

Address of Applicant :Assistant professor, Department of computer science, Shri C. J Patel college of computer studies (BCA), Visnagar -----

4)Dr. Bhubaneswari Bisoyi

Address of Applicant :Assistant Professor, Faculty of Management Studies, Sri Sri University, Cuttack-754006, India ---

5)Dr. Amit Mittal

Address of Applicant :Assistant Professor, Allied Science, Graphic Era Hill University Bhimtal Campus, Bhimtal, Uttarkhand- 263156 -----

6)Dr. Sandeep Kumar Sunori

Address of Applicant :Associate Professor, Electronics and Communication, Graphic Era Hill University Bhimtal Campus, Bhimtal, Uttarkhand- 263156 -----

(57) Abstract :

The present invention is an IOT and machine learning based method of communicating a digital message with an information signal. A sent message is a digital message. On the basis of the message sending methods provides a computer-readable cloud storage medium. The determination of a unitary authenticator of a material subject is performed by algorithm and, a mobile communication device is implemented, which comprises digital message acquisition means, and computation means, and which is adapted to implement the same algorithm for determining the second unitary authenticator.

No. of Pages : 13 No. of Claims : 3

(54) Title of the invention : INJECTABLE MICROSPHERES OF ERLOTINIB HYDROCHLORIDE''

(51) International classification :C07D0239940000, A61K0031517000, C23C0014040000, A61K0031522000, A61K0009200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Tejeswini Vikramsinh Deshmukh

Address of Applicant :Shivnagar Vidya Prasarak mandals, College of Pharmacy, Malegaon, Baramati. E-mail id: tejeswini.deshmukhsvpm@gmail.com Mob No. 9822596573, 9359370049 -----

2)Mr. Vikramsinh Tanajirao Deshmukh**3)Dr. Adhikrao Vyankatrao Yadav****4)Dr. Madhuri Tanajirao Deshmukh****5)Pradip Laxmanrao Sadar-Patil**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Tejeswini Vikramsinh Deshmukh

Address of Applicant :Shivnagar Vidya Prasarak mandals, College of Pharmacy, Malegaon, Baramati. E-mail id: tejeswini.deshmukhsvpm@gmail.com Mob No. 9822596573, 9359370049 -----

2)Mr. Vikramsinh Tanajirao Deshmukh

Address of Applicant :Meruling shikshan societies College of Pharmacy Medha, Jawalwadi E-mail id: vikramsinh.deshmukh@yahoo.com Mob No. 9921126225, 9834920463 -----

3)Dr. Adhikrao Vyankatrao Yadav

Address of Applicant :Gourishankar Institute of Pharmaceutical Education and Research, Limb, Satara E-mail id: avyadav03@rediffmail.com Mo No. 9890601832 -----

4)Dr. Madhuri Tanajirao Deshmukh

Address of Applicant :Smt. Kashibai Nawale College of Pharmacy, Kondhwa E-mail id: madhuripharmanicist9@gmail.com Mo No. 9850812489 -----

5)Pradip Laxmanrao Sadar-Patil

Address of Applicant :Hadapsar, Pune- 411028 E-mail id: pradeeplaxman.sadarpatil@ibsindia.org Mobile No.: 9822592116 -----

(57) Abstract :

The present invention relates to microsphere composition comprising Erlotinib Hydrochloride and other pharmaceutical acceptable excipients for anticancer disorders. Further invention relates to process for preparation of microsphere composition comprising Erlotinib Hydrochloride by utilizing an Emulsion dissolvable Evaporation method

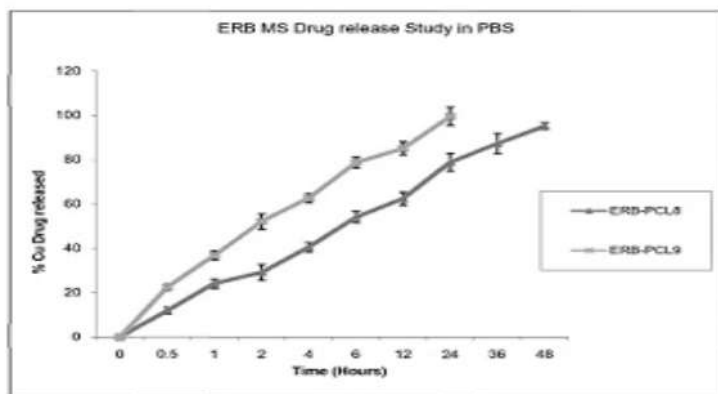


Fig. 1: Drug release study of ERB_PCL_MS batch No. 8 and 9

No. of Pages : 27 No. of Claims : 2

(54) Title of the invention : INJECTABLE MICROSPHERES OF GEMCITABINE''

(51) International classification :A61K0031706800, C07H0019073000, A61K0031522000, A61K0047360000, B01J0035080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Tejeswini Vikramsinh Deshmukh

Address of Applicant :Shivnagar Vidya Prasarak mandals, College of Pharmacy, Malegaon, Baramati. E-mail id: tejeswini.deshmukhsvpm@gmail.com Mob No. 9822596573, 9359370049 -----

2)Mr. Vikramsinh Tanajirao Deshmukh**3)Dr. Adhikrao Vyankatrao Yadav****4)Khushwant S. Yadav**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Tejeswini Vikramsinh Deshmukh

Address of Applicant :Shivnagar Vidya Prasarak mandals, College of Pharmacy, Malegaon, Baramati. E-mail id: tejeswini.deshmukhsvpm@gmail.com Mob No. 9822596573, 9359370049 -----

2)Mr. Vikramsinh Tanajirao Deshmukh

Address of Applicant :Meruling shikshan societies College of Pharmacy Medha, Jawalwadi E-mail id: vikramsinh.deshmukh@yahoo.com Mob No. 9921126225, 9834920463 -----

3)Dr. Adhikrao Vyankatrao Yadav

Address of Applicant :Gourishankar Institute of Pharmaceutical Education and Research, Limb, Satara E-mail id: avyadav03@rediffmail.com Mo No. 9890601832 -----

4)Khushwant S. Yadav

Address of Applicant :Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management, SVKM's NMIMS Deemed to be University, Mumbai, Maharashtra, India E-mail id: Khush.yadav@gmail.com Mobile No.: 9926905556 -----

(57) Abstract :

The present invention relates to microsphere composition comprising Gemcitabine and other pharmaceutical acceptable excipients for anticancer disorders. Further invention relates to process for preparation of microsphere composition comprising Gemcitabine by utilizing an Emulsion dissolvable Evaporation method.

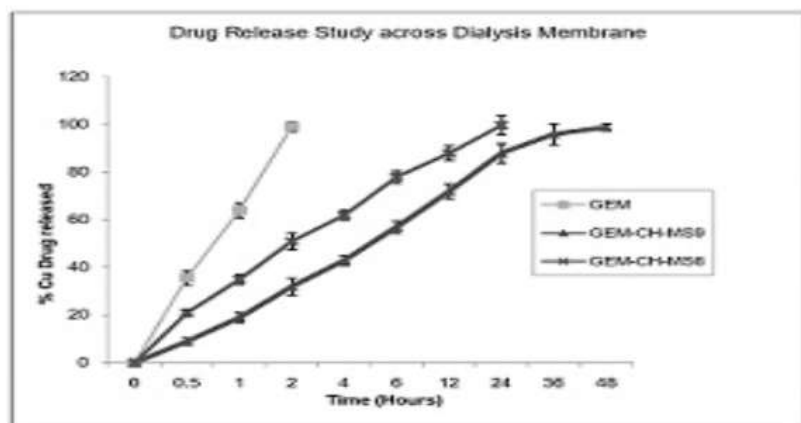


Fig. 1: Drug release study across dialysis membrane

No. of Pages : 23 No. of Claims : 2

(54) Title of the invention : PLASMONIC HYBRID NANOCATALYST INCLUDING NICKEL SUPPORTED ON PLASMONIC COLIDOSOMES AND METHODS INVOLVING THE SAME

(51) International classification :B01J0023755000, G06F0030200000, B01J0023520000, B01J0035000000, B01J0023420000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Address of Applicant :Tata Institute of Fundamental Research (TIFR) Homi Bhabha Road, Navy Nagar, Colaba, Mumbai Maharashtra India 400 005 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)VIVEK POLSHETTIWAR

Address of Applicant :Associate Professor, Tata Institute of Fundamental Research (TIFR); Homi Bhabha Road, Navy Nagar, Colaba, Mumbai Maharashtra India 400 005 -----

2)RISHI VERMA

Address of Applicant :PhD Studnet, Tata Institute of Fundamental Research (TIFR); Homi Bhabha Road, Navy Nagar, Colaba, Mumbai Maharashtra India 400 005 -----

(57) Abstract :

Abstract TITLE: Plasmonic hybrid nanocatalyst including Nickel Supported on Plasmonic Colidosomes and methods involving the same The advancement relates to DPC-C4 based antenna reactor of nickel (DPC-C4-Ni). The DPC-C4 based antenna reactor of nickel (DPC-C4-Ni) achieves exceptional activities for range of reactions in thermal catalysis, including CO₂ hydrogenation. CO₂ hydrogenation with green hydrogen and can provide a one solution to three challenging problems, i) excessive CO₂ levels, ii) the temporal mismatch between solar electricity production and demand, and iii) green hydrogen storage. Importantly, CO₂ hydrogenation reaction which needed very high temperatures, causing quick deactivation of catalyst due to active site sintering and coke formation now could be catalysed at room to moderate temperature via plasmonic excitation of DPC-C4-Ni using solar energy. The reaction mechanism and role of hot electrons studies were also carried out following i) one-electron reduction reaction of ferricyanide to ferrocyanide, ii) competitive C-Cl bond activation and ferricyanide reduction, iii) finite-difference time-domain simulations (FDTD), iv) ultrafast transient absorption spectroscopy, v) quantum chemical calculations, and vi) light dependent production rate.

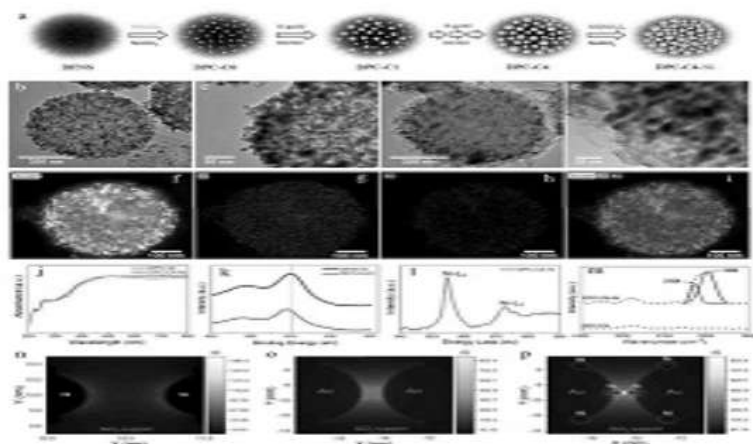


Figure 1

No. of Pages : 88 No. of Claims : 17

(54) Title of the invention : COMPACT HYDRAULIC PINNED JAW CRUSHER SYSTEM WITH HIGH SIZE REDUCTION RATIO.

(51) International classification :B02C0001020000, B02C0001040000, B02C0001000000, B02C0018140000, B02C0021020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SECRETARY, DEPARTMENT OF ATOMIC ENERGY

Address of Applicant :Govt. of India, Anushakti Bhavan Chatrapati Shivaji Maharaj Marg Mumbai Maharashtra India 400001 -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Y. S. Ladola

Address of Applicant :Uranium Extraction Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India 400085 -----

2)Shrishma Paik

Address of Applicant :Uranium Extraction Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India 400085 -----

3)Archana T. M.

Address of Applicant :Uranium Extraction Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India-400085 -----

4)Sujit Chowdhury

Address of Applicant :Uranium Extraction Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India - 400085 -----

5)D.V.Sonawane

Address of Applicant :Uranium Extraction Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India-400085 -----

6)M. L. Sahu

Address of Applicant :Uranium Extraction Division, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India-400085 -----

7)S. Bhattacharya

Address of Applicant :Reactor Project Group, Bhabha Atomic Research Centre, Trombay, Mumbai, Maharashtra, India-400085 -----

(57) Abstract :

ABSTRACT TITLE: COMPACT HYDRAULIC PINNED JAW CRUSHER SYSTEM WITH HIGH SIZE REDUCTION RATIO. The present invention discloses a compact crusher system comprising a jaw assembly including at least two linearly movable jaws for crushing material block by compressing, said jaws are facing each other and having a gap there between defining an active crushing area, a driving unit to push said jaws towards each other for compressing the block in the crushing area thereby generating local stresses in the block for crushing operation and a flat screen element in said crushing area and below said jaws, said screen element includes multiple openings for passing of crushed material smaller than said openings through said openings leaving active crushing area. In a preferred embodiment, inlet opening area of the crusher area is more than 1m² and outlet is restricted to atleast 0.0016m² by the screen enabling feeding of the block less than 0.85m in the crusher area and screening of only crushed pieces with size less than 40mm pass through screen for having size reduction ratio of 20 or more. Figure 4

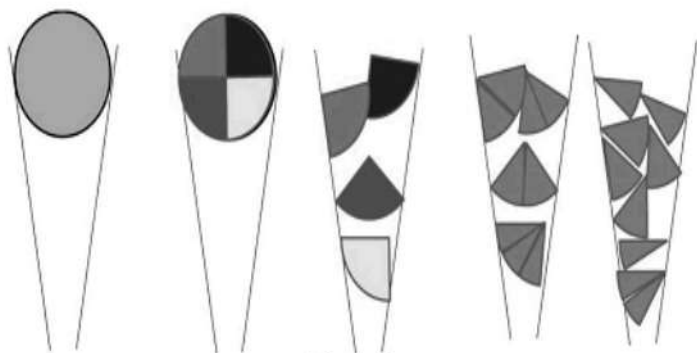


Figure 1

No. of Pages : 29 No. of Claims : 13

(54) Title of the invention : FAST ELECTRIC BATTERY CHARGER

(51) International classification :H02J0007000000, H02J0009060000, H02J0007020000, H02M0001100000, H02N0011000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Ramprakash Mishra

Address of Applicant :JES, A. C. Patil College of Engineering, Plot No.17, Sec-4, Kharghar, Panvel, Raigad-410210 Panvel -----

2)Sanket Shewale**3)Pradeep Khade****4)Ashish More****5)Dr. Dipak S. Marathe****6)Ms. Janvi D. Marathe**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ramprakash Mishra

Address of Applicant :JES, A. C. Patil College of Engineering, Plot No.17, Sec-4, Kharghar, Panvel, Raigad-410210 Panvel -----

2)Sanket Shewale

Address of Applicant :JES, A. C. Patil College of Engineering, Plot No.17, Sec-4, Kharghar, Panvel, Raigad-410210 Panvel -----

3)Pradeep Khade

Address of Applicant :JES, A. C. Patil College of Engineering, Plot No.17, Sec-4, Kharghar, Panvel, Raigad-410210 Panvel -----

4)Ashish More

Address of Applicant :JES, A. C. Patil College of Engineering, Plot No.17, Sec-4, Kharghar, Panvel, Raigad-410210 Panvel -----

5)Dr. Dipak S. Marathe

Address of Applicant :JES, A. C. Patil College of Engineering, Plot No.17, Sec-4, Kharghar, Panvel, Raigad-410210 Panvel -----

6)Ms. Janvi D. Marathe

Address of Applicant :JES, A. C. Patil College of Engineering, Plot No.17, Sec-4, Kharghar, Panvel, Raigad-410210 Panvel -----

(57) Abstract :

ABSTRACT Fast Electric Battery Charger [500] Our Invention Fast Electric Battery Charger is an electric battery charger can charge a battery faster compared to a charger available in the market. The charging time depends on the ampere-hour (Ah) of the battery. Nowadays, the main energy sources are different types of batteries due to the lack of centralized power grids available in developing countries. Today most devices have a backup and the primary power source is the battery. For complete utilization, a charger circuit must charge the battery to full capacity. It protects from overcharging of the batteries and extends their life. This charging circuit with modified transformer winding and wire gauge allows you to charge multiple batteries at once without damaging the battery. The six batteries of 12 V can be charged in a series connection in less than 4 hours by saving a 50 % charging time compared to the existing battery charger. The voltage range is 12 V to 72 V and the current 1 A to 10 A of a charger.

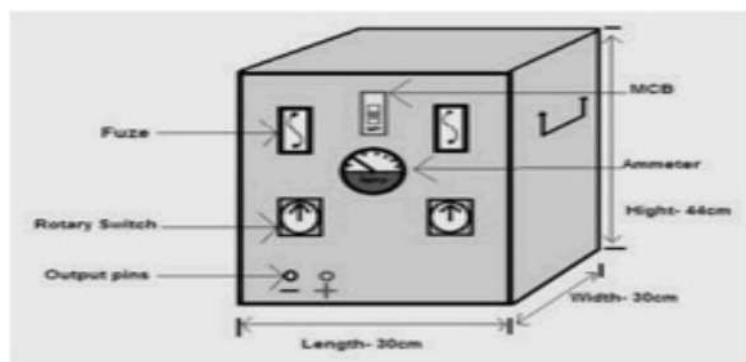


Fig.1. Battery charger model.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221027053 A

(19) INDIA

(22) Date of filing of Application :11/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANTIVIRAL BIOCOMPATIBLE JASAD NANO COMPOSITE BASED ARTEMISIA PALLENS WALL.NASAL OIL DROP COMPOSITION AND METHOD OF PREPARATION THEREOF.

(51) International classification	:A61K0036185000, A61K0036282000, A61K0036750000, A61K0009000000, C04B0028020000	(71)Name of Applicant : 1)Dr. Khade Shrimant T. Address of Applicant :Gate No. 108, Near Piaggio Vespa plant, Katphal, MIDC, Baramati, Pune-413133, Maharashtra, India ----- 2)Dr. Pawar Shivaji H. Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr. Khade Shrimant T. Address of Applicant :Gate No. 108, Near Piaggio Vespa plant, Katphal, MIDC, Baramati, Pune-413133, Maharashtra, India -----
Filing Date	:NA	2)Dr. Pawar Shivaji H. Address of Applicant :Centre for Innovative and Applied Research (CIAR), T. C. College Baramati, Pune-413102, Maharashtra, India. -----
(87) International Publication No	: NA	3)Dr. Murumkar Chandrashekhar V. Address of Applicant :Department of Botany, T.C. College, Baramati-413102, Maharashtra. -----
(61) Patent of Addition to Application Number	:NA	4)Dr. Sharma Rakeshkumar Address of Applicant :D. Y. Patil Medical College, Kolhapur-416006, Maharashtra. -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An antiviral biocompatible Jasad nanocomposite based Artemisia pallens Wall. nasal oil drop composition and method of preparation thereof, the said composition comprising of Jasad bhasma (A), plant extracts (B) of Artemisia pallens Wall. and Aegle marmelos, Tiltaila (C) and Bhimseni kapur (D), combined together in specific proportions, where the said Jasad bhasma is used as nanomaterial in combination of plant extracts and oil as a base; and wherein the composition is biocompatible, nanocomposite, non-cytotoxic, dose specific and safe to use such that the nasal oil drop is effective for multiple viral infections such as Swine flu, SARs II, Common Rhinoviruses causes upper and lower respiratory air born and droplet infections, and more particularly Covid-19.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221027253 A

(19) INDIA

(22) Date of filing of Application :12/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : CAVITY FIGHTER LOW DENSITY MOUTHWASH PREPARED FROM GREEN TEA EXTRACT AND CHLORHEXIDINE

(51) International classification :A61Q0011000000, A61K0031155000, A61K0008430000, A61K0036820000, A61K0008270000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Setu Bavaria
Address of Applicant :MDS, Conservative Dentistry & Endodontics, Ahmedabad Dental College, Gujarat University, Ahmedabad. Email id: ijphs@gmail.com Ahmedabad -----
2)Dr. Nandalal Toshniwal
3)Dr. Sandeep K. Pimpale
4)Dr. Minal M Kshirsagar
5)Dr. Manish A. Ashtankar
6)Dr. Richa Goel
7)Dr. Sapanuneet Kaur
8)Dr. Rajdeep Beura
9)Dr. Adrita Purkayastha
10)Bhakti Porwal
11)Dr. Bhavna Jha kukreja
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Setu Bavaria
Address of Applicant :MDS, Conservative Dentistry & Endodontics, Ahmedabad Dental College, Gujarat University, Ahmedabad. Email id: ijphs@gmail.com Ahmedabad -----
2)Dr. Nandalal Toshniwal
Address of Applicant :Professor and head, Department of orthodontics, Rural dental college of pravara institute of medical sciences Loni 413736 Email id: icdrp2021@gmail.com Loni -----
3)Dr. Sandeep K. Pimpale
Address of Applicant :Assistant Professor, Dept. of Periodontics and Oral Implantology, Nair Hospital Dental College, Mumbai, Maharashtra - 400008 Mumbai -----
4)Dr. Minal M Kshirsagar
Address of Applicant :Assistant Professor, Dept of Public Health Dentistry, Nair Hospital Dental College, Mumbai Mumbai -----
5)Dr. Manish A. Ashtankar
Address of Applicant :Assistant Professor, Dept. of Periodontics and Oral Implantology, VYWS Dental College & Hospital, Amravati, Maharashtra - 444602 Amravati -----
6)Dr. Richa Goel
Address of Applicant :Professor & HOD, Department of Public Health Dentistry, Karnavati School of Dentistry, Karnavati University, Urvasad, Gandhinagar Urvasad -----
7)Dr. Sapanuneet Kaur
Address of Applicant :California, United States of America -----
8)Dr. Rajdeep Beura
Address of Applicant :Reader, Dept of Periodontics, HITECH DENTAL COLLEGE AND HOSPITAL Bhubaneswar -----
9)Dr. Adrita Purkayastha
Address of Applicant :Assistant Professor, Dept of Periodontics, HITECH DENTAL COLLEGE AND HOSPITAL Bhubaneswar ----
10)Bhakti Porwal
Address of Applicant :4th year Student, Rural Dental College, Loni, Maharashtra Loni -----
11)Dr. Bhavna Jha kukreja
Address of Applicant :Professor, Department of Periodontology Teerthanker Mahaveer dental college and research center, Delhi road, Moradabad, Uttar Pradesh 244001 Moradabad -----

(57) Abstract :
ABSTRACT [500] Our Invention Cavity Fighter Low Density Green and Coconut Test Color Mouthwash is to a Broad examinations have been made on the regular mouthwashes, with less secondary effects, as an option in contrast to compound ones. The current review intended to decide the adequacy of green tea and chlorhexidine mouthwashes on plaque and gingival files. The present was a twofold visually impaired clinical preliminary (intercession study). A sum of 10 dental understudies as patients (from first to fourth semester) the subjects were distributed to utilize fake treatment, green tea and chlorhexidine mouthwashes for three courses of three days. There was multi week span between each course. Scaling and root planing were performed for every one of the patients. After each course, the ideal boundaries were determined and information dissected by nonparametric insights (e.g., Kruskal-Wallis test, Mann-Whitney U test, Wilcoxon, utilizing rebashed measures. at gauge and three days after the use, the mean plaque file was 2.2 and 1 in the green tea gathering, 2 and 3 in the fake treatment gathering, and 2 and 0.868 in the chlorhexidine bunch, separately. Decreases in gingival file (GI) went from 1.1 to 0.66 in the green tea bunch, from 1.11 to 2.11 in the fake treatment gathering and 1.10 to 0.715 in chlorhexidine bunch, individually. It was observed that green tea mouthwash could fundamentally lessen the plaque list as well as gum disease. There was no critical contrast among chlorhexidine and green tea mouthwashes in decreasing gum disease. Notwithstanding, the utilization of chlorhexidine found to decrease plaque level more than the utilization of green tea mouthwash. Moreover, in a portion of the subjects utilizing chlorhexidine mouthwash, tooth staining (dental math) noticed. Chlorhexidine and green tea mouthwashes viewed as viable in decreasing plaque list, and it has been demonstrated to be similarly viable in gum disease decrease. Nonetheless, the green tea and chlorhexidine mouthwashes were more powerful than fake treatment. Concerning gingival and plaque files, the green tea and chlorhexidine mouthwashes were negligibly compelling after 72h and 24h separately.



Fig.1: Cavity Fighter Low Density Green and Coconut Test Color Mouthwash.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : INTELLIGENT LED FLAT SCREEN MONITOR TAKE A SELFIES PICTURES AND VIDEO RECORDING.

(51) International classification :H04N0005770000, H04N0005232000, H04N0007140000, H04N0007150000, H04N0007180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mrs. Jyoti Raju Kadam

Address of Applicant :MAHATMA EDUCATION SOCIETY'S , Assistant Professor, Department Biotechnology Pillai College of Arts Commerce and Science. (Autonomous) , Dr. K. M. Vasudevan Pillai Campus, Plot No. 10, Sector 16, New Panvel East, Navi Mumbai, Maharashtra 410206 Navi Mumbai -----

2)Mr. Raju A Kadam**3)Sanjana Raju Kadam**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mrs. Jyoti Raju Kadam

Address of Applicant :MAHATMA EDUCATION SOCIETY'S , Assistant Professor, Department Biotechnology Pillai College of Arts Commerce and Science. (Autonomous) , Dr. K. M. Vasudevan Pillai Campus, Plot No. 10, Sector 16, New Panvel East, Navi Mumbai, Maharashtra 410206 Navi Mumbai -----

2)Mr. Raju A Kadam

Address of Applicant :Building No:-03 Flat No:-207 Green valley, Vichumbe. - 410206. Maharashtra, India. Navi Mumbai -----

--

3)Sanjana Raju Kadam

Address of Applicant :Building No:-03 Flat No:-207 Green valley, Vichumbe. - 410206. Maharashtra, India Navi Mumbai -----

(57) Abstract :

ABSTRACT [500] Our Invention Intelligent LED Flat Screen Monitor take a Selfies Pictures and Video Recording is an In LED level screen embed worked in webcam, Mike, speakers with sound and video record choice and Able to take a selfies pictures and video recording from the level screens which ought to be utilized in personal computer. A selfie is a sort of self-portrayal photograph, ordinarily taken with a hand-held automated camera or camera phone. Selfies are every now and again associated with casual correspondence, as Instagram. Video is an electronic mechanism for the recording, replicating, playback, broadcasting, and show of moving visual media. Video was first produced for mechanical TV frameworks, which were immediately supplanted by cathode-beam tube frameworks which were subsequently supplanted by level board showcases of a few kinds.



Fig.1: Intelligent LED Flat Screen Monitor take a Selfies Pictures and Video Recording structure

No. of Pages : 10 No. of Claims : 6

(54) Title of the invention : BUILT-IN MINI FAN OF 1 INCH DIAMETER UNDER SMARTPHONES.

(51) International classification :F04D0027000000, H05K0007200000, F21V0029670000, A01G0013080000, A47C0021040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mrs. Jyoti Raju Kadam

Address of Applicant :MAHATMA EDUCATION SOCIETY'S , Assistant Professor, Department Biotechnology Pillai College of Arts Commerce and Science. (Autonomous) , Dr. K. M. Vasudevan Pillai Campus, Plot No. 10, Sector 16, New Panvel East, Navi Mumbai, Maharashtra 410206 Navi Mumbai -----

2)Mr. Raju A Kadam

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mrs. Jyoti Raju Kadam

Address of Applicant :MAHATMA EDUCATION SOCIETY'S , Assistant Professor, Department Biotechnology Pillai College of Arts Commerce and Science. (Autonomous) , Dr. K. M. Vasudevan Pillai Campus, Plot No. 10, Sector 16, New Panvel East, Navi Mumbai, Maharashtra 410206 Navi Mumbai -----

2)Mr. Raju A Kadam

Address of Applicant :Building No:-03 Flat No:-207 Green valley, Vichumbe. - 410206. Maharashtra, India Navi Mumbai -----

-

(57) Abstract :

ABSTRACT [500] Our Invention Built-in Mini Fan of 1 Inch Diameter under Smartphones is a In cell phones embed a little or small aficionado of 1 inch measurement close motherboard which assists with eliminating heat created inside the cell phone and this addition of smaller than expected 1 inch fan will play double part that is, it delivers a cool air for the proprietor of the cell phone and will keep the versatile cool too. There ought to be a sensor that will detect assuming the versatile is getting warmed up and gadget will send the notice saying that your gadget is getting warmed up might you want to turn on the interior fan. This invention is intended for smart controller fans. Deeply, the sensor, Bluetooth and Andrews' framework applied to the plan of astute controller fan. As indicated by the temperature sensor to accomplish the indoor temperature assortment, to accomplish and set the temperature examination, in this manner influencing the fan speed. Simultaneously, the framework as per the infrared sensor parts to recognize outer variables, to accomplish the running or halting of the fan, or at least, to accomplish wise control of the fan. Furthermore, the framework accomplish the Bluetooth and cell phone Andrews' arrangement of viable mix, and through the product program to finish the fan far off activity and wind speed control.

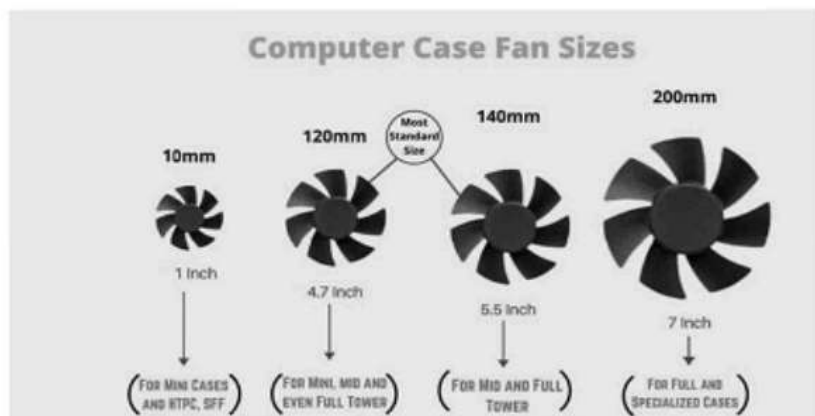


Fig.1: Built-in Mini Fan of 1 Inch Diameter

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : SMARTPHONES CONVERT IN TO A MINI PROJECTOR LENS OF HIGH DEFINITION.

(51) International classification :G02B0030270000, F21S0041265000, G09F0027000000, G03B0029000000, G02B0013180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mrs. Jyoti Raju Kadam

Address of Applicant :MAHATMA EDUCATION SOCIETY'S , Assistant Professor, Department Biotechnology Pillai College of Arts Commerce and Science. (Autonomous) , Dr. K. M. Vasudevan Pillai Campus, Plot No. 10, Sector 16, New Panvel East, Navi Mumbai, Maharashtra 410206 Navi Mumbai -----

2)Mr. Raju A Kadam**3)Sanjana Raju Kadam**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mrs. Jyoti Raju Kadam

Address of Applicant :MAHATMA EDUCATION SOCIETY'S , Assistant Professor, Department Biotechnology Pillai College of Arts Commerce and Science. (Autonomous) , Dr. K. M. Vasudevan Pillai Campus, Plot No. 10, Sector 16, New Panvel East, Navi Mumbai, Maharashtra 410206 Navi Mumbai -----

2)Mr. Raju A Kadam

Address of Applicant :Building No:-03 Flat No:-207 Green valley, Vichumbe. - 410206. Maharashtra, India. Navi Mumbai -----

--

3)Sanjana Raju Kadam

Address of Applicant :Building No:-03 Flat No:-207 Green valley, Vichumbe. - 410206. Maharashtra, India. Navi Mumbai -----

--

(57) Abstract :

ABSTRACT [500] Our Invention Smartphones Convert in to a Mini Projector Lens of High Definition is a smartphones insert a mini projector lens of high definition (HD). Quality of the picture, image should be of 720pc60 crystal clear image on white board display which will be used in the offline classrooms which will help the faculties to take the lectures presentations in the classroom without fixing the projector separately. (HIGH DEFINITION (HD) PROJECTOR LENS IN SMART PHONE). Glassless 3D presentations utilizing projectors and cell phones in view of essential imaging innovation have been created. Three-layered picture records are made from the 2D pictures caught by a customary camera. Enormous size 3D pictures utilizing four HD and Ultra HD 4K projectors are made with a survey point of 45 degrees and a huge profundity. Three-layered pictures are exhibited utilizing improved lenticular focal points and versatile cell phones.



Fig.1: Smartphones Convert in to a Mini Projector Lens of High Definition Process

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : DEVELOPMENT OF NOVEL IN-SITU GEL-FORMING SYSTEM OF ALMOTRIPTAN FOR BRAIN TARGETING VIA NASAL ROUTE

(51) International classification :A61K0009000000, A61K0047360000, A61K0009060000, A61K0047340000, A61M0031000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Ashish Jain

Address of Applicant :School Of Pharmacy, LNCT University, Kolar road Bhopal, MP. -----

2)Megha Parashar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Megha Parashar

Address of Applicant :School of Pharmacy, LNCT University, Kolar Road, Bhopal, M.P., India Bhopal -----

2)Dr. Ashish Jain

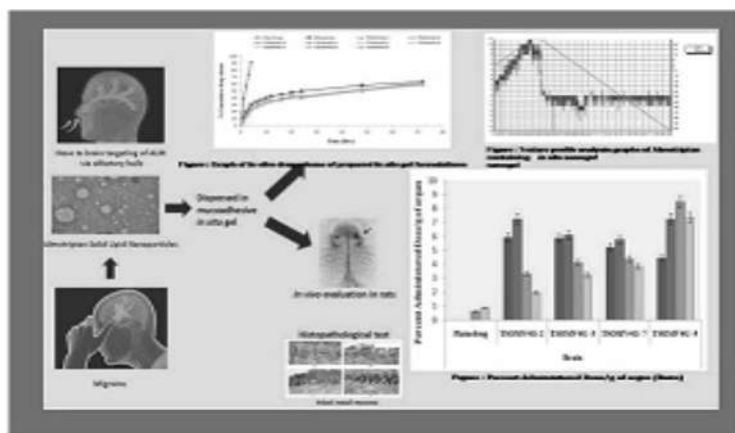
Address of Applicant :School of Pharmacy, LNCT University, Kolar Road, Bhopal, M.P., India Bhopal -----

3)Dr. Akhlesh Kumar Singhai

Address of Applicant :School of Pharmacy, LNCT University, Kolar Road, Bhopal, M.P., India Bhopal -----

(57) Abstract :

Abstract In the present work, it was attempt to develop a strategy that can deliver drug direct to the brain through nasal route. The almotriptan loaded ethosomes containing nano in-situ gel system was prepared that can release drug in controlled manner and transport from nostril to brain directly via olfactory region. The formulation will remain in solution form and it will become be gel for upon interaction with the physiological condition like pH, ions and temperature of nasal cavity. Almotriptan causes extra cerebral, intracranial blood vessel constriction via binding to serotonin 5-HT 1B and 1D receptors in the central nervous system (CNS) that reduce extravasation of plasma proteins, and lowering the release of other inflammatory mediators from the trigeminal nerve which help to relief the headaches. The prepared ethosomes formulation was shown the 218.6 nm in average vesicle size and 0.305 PDI respectively and found 73.5% of drug encapsulation. The prepared optimized formulation was incorporated in the solution prepared by Xanthan gum and HPMC. The nano in-situ gel was further characterized for drug content, viscosity, gel strength, gel capacity, gelling time, spreadability and in-vitro drug release study. The prepared gel formulation was found 8.5 cps viscosity of optimized formulation in the form of sol which was optimum for nasal administration. The prepared optimized formulation was shown significant gelling capacity and strength and mucoadhesivness which retain the drug in nasal cavity to release, absorb and transport in therapeutic amount to the brain. The formulation was found 3.3 to 6.7 g/cm of gelling strength and 6.7±0.7 to 18.6±0.6 cm²/min of spreadability for different prepared formulations. In-vitro drug release was carried out in acetate buffer pH 6.4 using French diffusion cells and found 58.2% to 63.32% in 72 hrs. Drug release from the formulation was sustained and controlled manner following Koresmeyer Peppas release kinetic kinetic model. It was found that the formulation was non-irritant to the nasal mucosa which was confirmed by performing histopathology study. Drug distribution was revealed that the drug was found higher in concentration in the brain when it compare with normal drug solution. The prepared optimized nano in-situ nasal gel formulation will capable to deliver drug to the brain in higher amount with minimum side effect with low cost of treatment.



(54) Title of the invention : HIDDEN CAMERA DETECTOR PEN TO DETECT HIDDEN SPY CAMERAS.

(51) International classification :G08B0013196000, H04N0007140000, G06F0021620000, G07C0009250000, G08B0013060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Saiprasad Potharaju

Address of Applicant :Associate Professor Dept of Comp Engg Sres Coe -----

2)Diksha Dilip Gherade**Name of Applicant : NA****Address of Applicant : NA**

(72)Name of Inventor :

1)Rohit Raindra Nikamm

Address of Applicant :Assistant Professor Dept of IT Sanjivani College of Engineering Kopargaon Kopargaon -----

2)Dr Inumarthi Veerabhadra Srinivas

Address of Applicant :203, Neelam Building, Kasturi Chs, Moraj Residency, Sector 16, Sanpada, Navi Mumbai Navi Mumbai -----

3)Swapnali N Tambe

Address of Applicant :w/o Nilesh Jagtap, Bank Colony Kopargaon Kopargaon -----

4)Ganesh Bhivsen Gadekar

Address of Applicant :Assistant Professor, Dept of Computer Engineering Sres College of Engineering Kopargaon Maharashtra Kopargaon -----

5)Diksha Dilip Gherade

Address of Applicant :Dept of Computer Engineering Sres College of Engineering Kopargaon Maharashtra Kopargaon -----

6)Amruta Kailas Rajput

Address of Applicant :Dept of Computer Engineering Sres College of Engineering Kopargaon Maharashtra Kopargaon -----

7)Swati Subhash Hiwrale

Address of Applicant :Dept of Computer Engineering Sres College of Engineering Kopargaon Maharashtra Kopargaon -----

(57) Abstract :

Day to Day, various technologies are advancing. With this advancement in technologies, the risk to privacy has been a big threat. People who travel a lot and stay outdoors mostly face this issue. And for females it is a big big threat. Personal privacy leakage has become an important topic nowadays. With the advancement of technologies spy cameras can be of whichever size which ever form and cannot be recognized or identifiers with naked eyes. From the smallest object like in a metal nail also there can be a camera placed to bigger objects like in the mirror. While in the changing room, if you go into any clothing store a threat will remain to you whether there must be a camera or not which is spying on your activity. So this easy to carry hidden camera detector pen avoids all the risks and can make you free of privacy concerns. It is wireless and is easily manageable. And it looks like a normal pen so there will not be any realization that you are carrying any such device. It is easy to use and can be used at any remote location where mobile networks can be considerably low as it does not include any kind of internet connection.

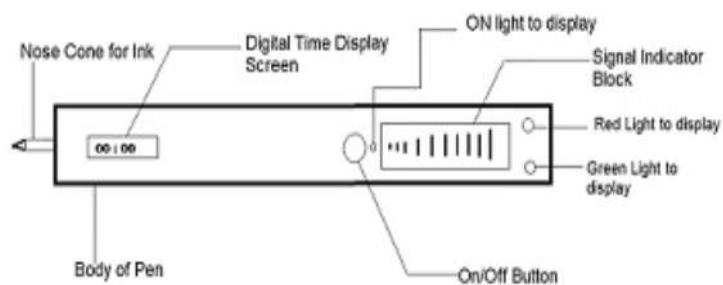


Fig. 1 illustrates a schematic of the overall proposed system

No. of Pages : 12 No. of Claims : 6

(51) International classification :G05D0001020000, B60W0050000000, B62D0011080000, B60W0050080000, B60N0002020000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)Dr. Vishwanth Karad MIT World Peace University

Address of Applicant :S.No, 124, Paud Road, Kothrud, Pune 411038, Maharashtra, India Pune -----

2)Yash Keskar

3)Sudhanshu Manerikar

4)Sourabh Damkale

5)Shubhanga Kulkarni

6)Pratyaksh Pandey

7)Prerana Kolipaka

8)Prakash B. Joshi

9)Ganesh M. Kakandikar

10)Shrikant K. Yadav

11)Omkar K. Kulkarni

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Yash Keskar

Address of Applicant :501, Aquilla Classique, Ramnagar, Bavdhan, Pune-411021, Maharashtra, India Pune ----

2)Sudhanshu Manerikar

Address of Applicant :B3/603/ Shree Suvarna Ratna Gardens Hsg, Near Cummins College, Karvenagar, Pune 411052, Maharashtra, India Pune -----

3)Sourabh Damkale

Address of Applicant :Flat No. 203, Wing A/1, Pawan Co-Op Hsg Society, Sai Chowk, Pashan, Sus Road, Pune 411 021, Maharashtra, India. Pune -----

4)Shubhanga Kulkarni

Address of Applicant :C-107, Sanskar CHS, Neelam Nagar ph-2, Mulund East, Mumbai-400081, Maharashtra, India Mumbai -----

5)Pratyaksh Pandey

Address of Applicant :Jindal polyfilms ltd 28km stone mundegaon Igatpuri nasik 422403, Maharashtra, India mundegaon Igatpuri -----

6)Prerana Kolipaka

Address of Applicant :Flat no. 511, Lotus Block, Ushodaya Signature, Deepthisree nagar, Madinaguda, Hyderabad, Telangana-500049, India Madinaguda -----

7)Prakash B. Joshi

Address of Applicant :School of Mechanical Engineering, Dr. Vishwanath Karad MIT-World Peace University, S. N. 124, Paud Road, Kothrud, Pune 411038, Maharashtra, India Pune -----

8)Ganesh M. Kakandikar

Address of Applicant :School of Mechanical Engineering, Dr. Vishwanath Karad MIT-World Peace University, S. N. 124, Paud Road, Kothrud, Pune 411038, Pune Maharashtra India. Pune -----

9)Shrikant K. Yadav

Address of Applicant :School of Mechanical Engineering, Dr. Vishwanath Karad MIT-World Peace University, S. N. 124, Paud Road, Kothrud, Pune 411038, Maharashtra, India Pune -----

10)Omkar K. Kulkarni

Address of Applicant :School of Mechanical Engineering, Dr. Vishwanath Karad MIT-World Peace University, S. N. 124, Paud Road, Kothrud, Pune 411038, Maharashtra, India Pune -----

(57) Abstract :

AUTONOMOUS FOUR-WHEELER ELECTRIC VEHICLE ABSTRACT Disclosed is an autonomous four-wheeler electric vehicle (100) driven by an autonomous vehicle management system that is capable of controlling the operation of steering, brake, and throttle units of the vehicle and facilitating safe driving without any human intervention. The vehicle management system comprises a plurality of controllers operably coupled to a plurality of electric motors (12a, 12b, 12c) by means of respective driver circuits. The electric motors (12a, 12b, 12c) are coupled to the steering, brake, and throttle pedal (31) individually and provide actuation in accordance with the trigger signals received from the plurality of controllers. The plurality of controllers includes a first controller coupled to a plurality of sensors and is configured with a path planning and an object detection module, and a second controller (12) that receives inputs from the first controller and produces control signals necessary for the electric motors (12a, 12b, 12c) for safe driving. Figure 2

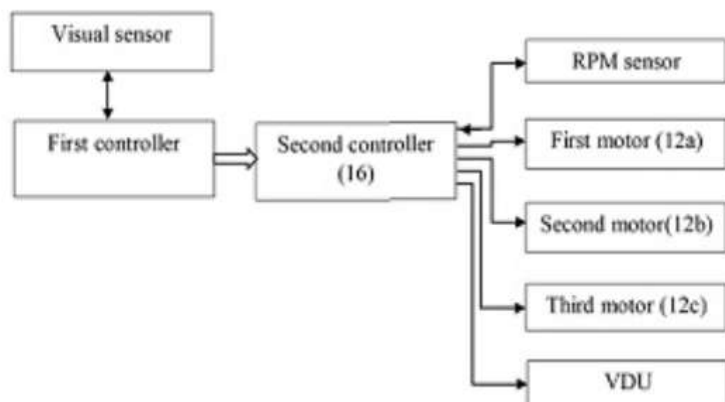


Figure 2

(54) Title of the invention : AN IOT BASED SYSTEM TO FIND FAULT DIAGNOSIS OF MOTORS

(51) International classification :G06Q0010060000, H04L0029080000, A61B0005000000, H05B0045000000, G06F0009440100

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Swapnil Anil Damate

Address of Applicant :Sector no. 16, Plot no. 132/4, RajeShivajiNagar, PCNTDA Chikhali, Chinchwad, Pune 411019 -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Swapnil Anil Damate

Address of Applicant :Sector no. 16, Plot no. 132/4, RajeShivajiNagar, PCNTDA Chikhali, Chinchwad, Pune 411019 -

(57) Abstract :

Fault diagnosis of motors, as well as proper data management, is a significant issue in today's industry. To address this issue, we have created a data-driven system (100) that locates and diagnoses errors while also storing data centrally on a cloud platform. Signals retrieved from motor are processed by the device designed for fault data collecting. The device has a sophisticated controller, LED display, analog voltage signals processing potential divider circuits, and LED indicators. Initially, the device will use the Cloud platform database to retrieve the user entered motor serial number and motor manufacturer name. The device is built in such a way that OEM vendor companies can use it to test motors. The system is based on Industry 4.0 concepts, and as a result, it meets the data acquisition needs of today's industries. The proposed device and web application are linked via a cloud platform, allowing all diagnostic data as well as important manufacturer information to be stored in a centralized location. For accurate device validation, a web application can support a variety of industry manufacturers.

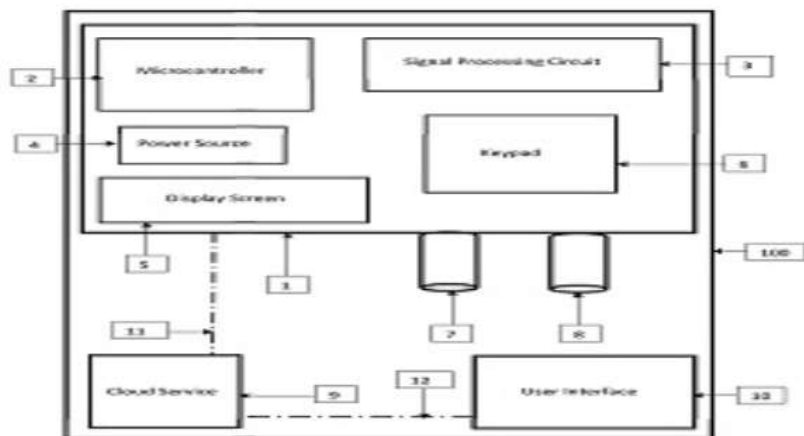


FIG. 1

No. of Pages : 10 No. of Claims : 10

(54) Title of the invention : CABLE LENGTH MANAGEMENT SYSTEM AND A METHOD THEREOF

(51) International classification :H01L0021311000, H01L0021768000, H02G0001100000, H02J0007340000, H02G0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Godrej & Boyce Mfg Co Ltd

Address of Applicant :Pirojshanagar, Vikhroli (W), Mumbai, Maharashtra, India- 400079. Mumbai -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Venkat Ega

Address of Applicant :Plant 13 Annex, Interio, Godrej and Boyce Mfg Co. Ltd, Pirojshanagar, Vikhroli East, Mumbai-400079. Mumbai -----

2)Devesh Mistry

Address of Applicant :Plant 13 Annex, Interio, Godrej and Boyce Mfg Co. Ltd, Pirojshanagar, Vikhroli East, Mumbai-400079. Mumbai -----

3)Haribabu Darapaneni

Address of Applicant :Plant 13 Annex, Interio, Godrej and Boyce Mfg Co. Ltd, Pirojshanagar, Vikhroli East, Mumbai-400079. Mumbai -----

4)Sunil Kulkarni

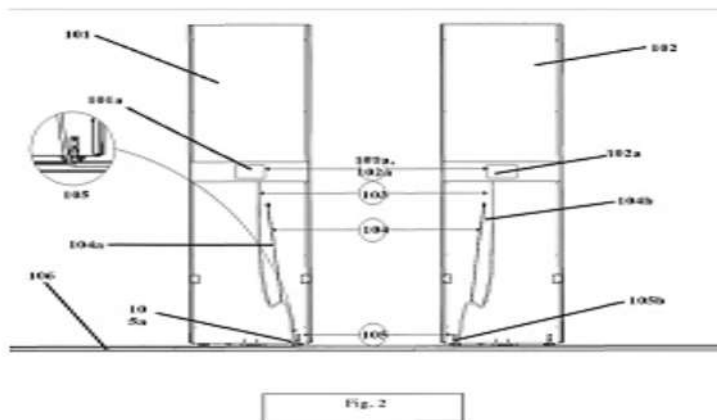
Address of Applicant :Plant 13 Annex, Interio, Godrej and Boyce Mfg Co. Ltd, Pirojshanagar, Vikhroli East, Mumbai-400079. Mumbai -----

5)Sameer Desai

Address of Applicant :Plant 13 Annex, Interio, Godrej and Boyce Mfg Co. Ltd, Pirojshanagar, Vikhroli East, Mumbai-400079. Mumbai -----

(57) Abstract :

CABLE LENGTH MANAGEMENT SYSTEM AND A METHOD THEREOF The embodiments herein achieve a cable length management system(the system) for managing varying length of cable connected between two moving bodies requiring electric power supply. Further, the embodiments herein achieve the system which eliminates entanglement of cable when the moving bodies are pushed relatively close and prevents pulling of cable and disconnection of moving bodies when they are pulled relatively far apart. Furthermore, the embodiments herein achieve the system which allows the smooth and seamless movement of moving bodies relative to each and prevents damage caused to the cable during their movement. The embodiments herein achieve the system which does not impact the aesthetics of a product or system in which it is integrated. Moreover, the embodiments herein achieve a method for managing varying length of cable connected between two moving bodies requiring electric power supply. Fig. 2



No. of Pages : 22 No. of Claims : 6

(54) Title of the invention : INNOVATIVE CONE SHAPED ELECTRODE FOR EARTHING WITH NOVEL BACKFILL MATERIAL

(51) International classification :H01R0004660000, E02D0029020000, C23C0016455000, B06B0001060000, G10K0011000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MEGHNA BHOSALE-YASHWANTE

Address of Applicant :PES MODERN COLLEGE OF ENGINEERING, 1186/A, OFF. J.N. ROAD, SHIVAJINAGAR, PUNE - 411005, MAHARASHTRA, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MEGHNA BHOSALE-YASHWANTE

Address of Applicant :PES MODERN COLLEGE OF ENGINEERING, 1186/A, OFF. J.N. ROAD, SHIVAJINAGAR, PUNE - 411005, MAHARASHTRA, INDIA. -----

2)PARASHURAM B.KARANDIKAR

Address of Applicant :ARMY INSTITUTE OF TECHNOLOGY,ALANDI RD,DIGHI,PUNE,MAHARASHTRA,INDIA-411015 -----

3)NEELIMA RAVINDRA KULKARNI

Address of Applicant :PES MODERN COLLEGE OF ENGINEERING, 1186/A, OFF. J.N. ROAD, SHIVAJINAGAR, PUNE - 411005, MAHARASHTRA, INDIA. -----

(57) Abstract :

The current invention is a ground electrode for electrically grounding electric equipment in a variety of electric facilities. Equipment and personnel protection both require earthing. Because of technological advancements, the power generation, transmission, and distribution sectors of power systems have all changed. Earthing design is influenced by both natural and man-made changes. Ground electrode and soil around are the major influential parameters. The proposed invention is intended to provide an alternative to existing earthing methods that are ineffective in certain situations. The presented innovation is a novel approach for a cone-shaped earthing electrode. It can be either a full cone or a truncated cone. The proposed innovative back fill material that reduces earth resistance is the goal of the presented invention.

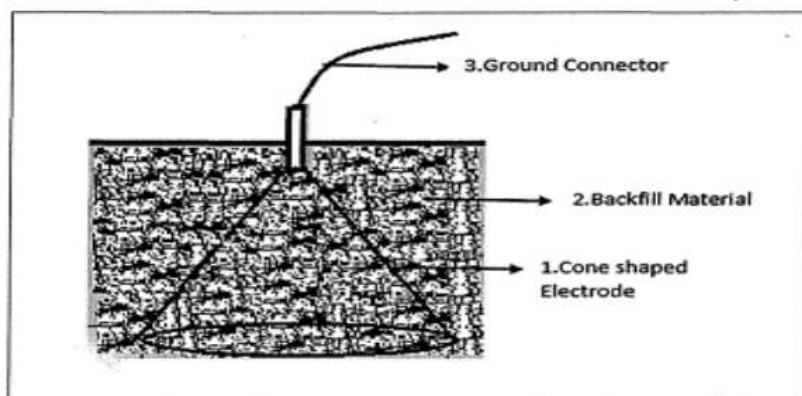


Fig.1.Ground pit with electrode and backfill

No. of Pages : 13 No. of Claims : 7

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(19) INDIA

(22) Date of filing of Application :25/05/2022

(21) Application No.202221029919 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYSTEM FOR SUPERVISING CONTENT ITEMS DISPLAYED ON A SIGNAGE DEVICE AND A METHOD THEREOF

(51) International classification :G06Q0030020000, H04N0021488000, H04N0021239000, A63F0013213000, G09B0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Adheer A. Goyal
Address of Applicant :Research Scholar, Department of Management, School of Commerce & Management, G H Raisoni University, Saikheda -----
2)Dr. Mustafizul Haque
3)Swati. A. Goyal
4)Dr. Padmalini Singh
5)Dr. Anamika Singh
6)Dr. Chandrani Singh
7)Dr. Syed Siraz
8)Dr. Sachin R. Wankhede
9)Dr. Asita Ghewari
10)Dr. Netra P. Patil
11)Mahesh Lagad
12)Sanjay M. Satav
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Adheer A. Goyal
Address of Applicant :Research Scholar, Department of Management, School of Commerce & Management, G H Raisoni University, Saikheda -----
2)Dr. Mustafizul Haque
Address of Applicant :Associate Professor & DEAN, Department of Management, School of Commerce & Management, G H Raisoni University, Saikheda -----
3)Swati. A. Goyal
Address of Applicant :Assistant Professor, Department of Management, School of Commerce & Management, G H Raisoni University, Saikheda -----
4)Dr. Padmalini Singh
Address of Applicant :Associate Professor, RV Institute of Management, CA 17, 36th Cross Road, 4th T Block East, 9th Block, Jayanagar -----
5)Dr. Anamika Singh
Address of Applicant :Director, Singhgad Institute of Management & Computer Application, Pune -----
6)Dr. Chandrani Singh
Address of Applicant :Director -MCA STES SIOM and Incharge STES Singhgad Data Centre, Pune -----
7)Dr. Syed Siraz
Address of Applicant :Associate Professor, Malla Reddy Institute of Management, Secunderabad -----
8)Dr. Sachin R. Wankhede
Address of Applicant :Head of the Department, Department of Management Studies, Smt. Kashibai Navale College of Engineering, Savitribai Phule Pune University, Pune -----
9)Dr. Asita Ghewari
Address of Applicant :Associate Professor, Rasiklal M. Dhariwal Institute of Management , Pune -----
10)Dr. Netra P. Patil
Address of Applicant :Director & Professor,MCA Department Singhgad Institute of Business Administration & Research S. No. 40/4, Near Octroi Post, Kondhwa-Saswad Road, Kondhwa(Bk), Pune -----
11)Mahesh Lagad
Address of Applicant :Assistant Professor, Smt.Kashibai Navale College of Engineering, Department of Management Studies, Vadgaon -----
12)Sanjay M. Satav
Address of Applicant :Research Scholar , RC-Sinhgad Institute of Computer Application and management, Savitribai Phule , Pune University, Pune -----

(57) Abstract :
ABSTRACT A SYSTEM FOR SUPERVISING CONTENT ITEMS DISPLAYED ON A SIGNAGE DEVICE AND A METHOD THEREOF The present disclosure envisages a system and a method for supervising content items displayed on a signage device. The system comprises a content manager to detect a location surrounding a signage device, identify at least one malfunctional activity surrounding the signage device, and display content items at the signage device while providing a first set of optimal solution pertaining to the malfunctional activity. The system further comprises a content conversion unit configured to detect presence of at least one user, receive inputs from the at least one user, and identify a type of user based on an image frame. The system further comprises a report generation module to generate a suggestive report to provide an alternative solution based upon said inputs.

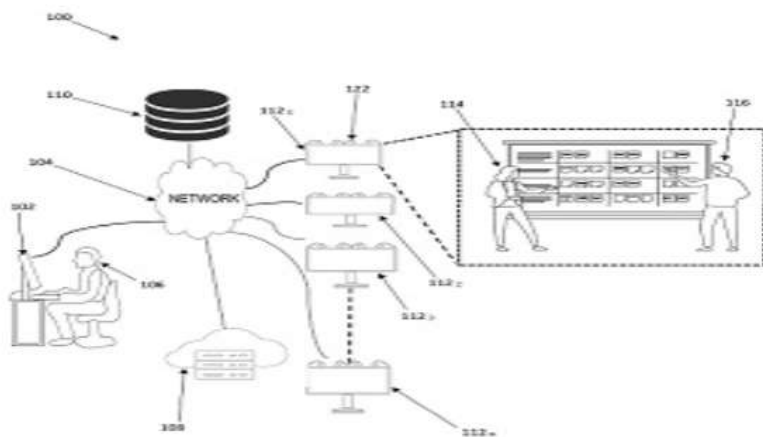


Figure 3

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : A DEVICE FOR PERFORMANCE MANAGEMENT IN HIGHER EDUCATION AND METHOD THEREOF

(51) International classification :G09B0019000000, G06Q0050200000, B25J0011000000, G06F0001323400, G06F0001160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SYMBIOSIS INSTITUTE OF MANAGEMENT STUDIES-PUNE

Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVALE, TAL. MULSHI, PUNE - 412115, MAHARASHTRA, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)JAYA CHITRANSHI

Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVALE, TAL. MULSHI, PUNE - 412115, MAHARASHTRA, INDIA. -----

2)RAJIV DIVEKAR

Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVALE, TAL. MULSHI, PUNE - 412115, MAHARASHTRA, INDIA. -----

3)REENA LENKA

Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVALE, TAL. MULSHI, PUNE - 412115, MAHARASHTRA, INDIA. -----

(57) Abstract :

A DEVICE FOR PERFORMANCE MANAGEMENT IN HIGHER EDUCATION AND METHOD THEREOF Performance Management is the focus of an institution of higher education, to achieve its sublime objective of educating/ training/ steering mature minds. The purpose of transforming students into high-performance individuals will be achieved completely when there are certain checkpoints and steps to the process of performance management. The device 100 enables to increase the performance of students in higher education comprising (a) step 1 -goal-setting; (b) step 2- coaching and guiding; (c) step 3- performance measurement; (d) step 4- mentoring; (e) step 5- counseling; (f) step 6- performance measurement after counseling; (g) step 7-aggregate performance with respect to a goal(s); (h) step 8- final rewards/advisory; (i) step 9-new goal(s)/ revising and recalibrating goal(s); and (j) continuous feedback is given to the students towards improving their performance. The industry/ work organizations will also benefit by procuring performers. This will further create and boost a high-performance work culture in organizations. To be published with Figure 1.

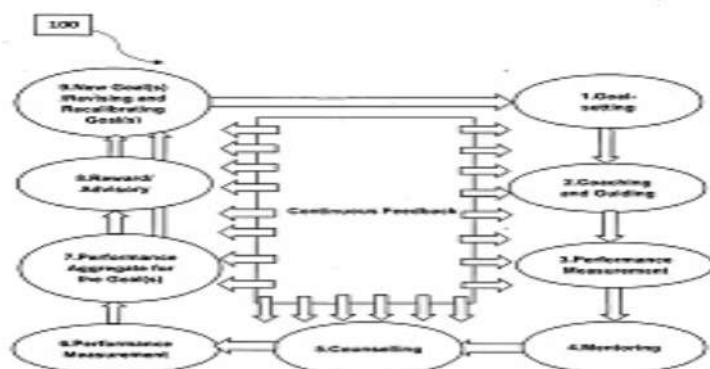


Figure 1

No. of Pages : 26 No. of Claims : 9

(54) Title of the invention : A DEVICE FOR DIET SCANNING, AND COMPUTING FOR MEASURING NUTRITION, AND METHOD THEREOF

(51) International classification :G06Q0050220000, G16H0020600000, A61B0005107000, A61J0015000000, A23K0050900000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SYMBIOSIS INSTITUTE OF MANAGEMENT STUDIES-PUNE

Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVALE, TAL. MULSHI, PUNE - 412115, MAHARASHTRA, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MITA MEHTA

Address of Applicant :SYMBIOSIS KNOWLEDGE VILLAGE, GRAM LAVALE, TAL. MULSHI, PUNE - 412115, MAHARASHTRA, INDIA. -----

(57) Abstract :

A DEVICE FOR DIET SCANNING AND COMPUTING FOR MEASURING NUTRITION, AND METHOD THEREOF The present disclosure refers to a device (100) for diet scanning and computing for measuring nutrition consisting of an N 1 user data module; an N 2 image processing module; an N3 food consumption module; an N4 information processing module; an N5 diet planning module; and an N6 weather detecting module. The device in which the N 1 module is recording the input personal data in terms of height, weight, health information, age, etc., the N2 module processes the images of the food item and captures the nutrients and quality, the N3 module suggests the correct way of preparing and consuming food so that the nutrients can be retained, the N4 module retrieves the information from N 1, N 2, N 3, N 6 and process, the N5 module suggests the dietary plan as per the results generated by the N4 module and the N6 module detects the current weather and giving input to the N4 module. [to be published with figure 1]

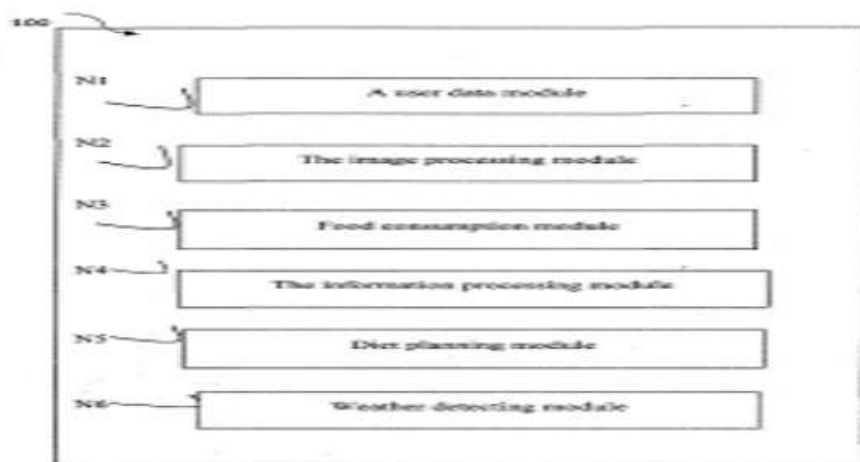


Figure 1

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : VIBRATING ARRANGEMENT FOR A BAG FILTER

(51) International classification :B01D0046000000, B01D0046020000, B01D0046040000, E02D0005380000, B01D0046060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KALANI MECHANICAL WORKS PVT.LTD.Address of Applicant :H-2, Old MIDC SATARA- 415004
SATARA -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KALANI JUGALKISHORE KUNJILALAddress of Applicant :H-2, OLD MIDC SATARA-415004
SATARA -----

(57) Abstract :

ABSTRACT A vibrating arrangement for a bag filter A vibrating arrangement for a bag filter (A), having a horizontal frame (1); fitted with a plurality of vertical hollow pipes(2). Each vertical pipe is attached at its upper end(3) to the horizontal frame(1); At the lower end of the hollow pipes (2) are attached springs(5). The hollow pipe (2) and the spring (5); are placed inside a cage (6). Each filter bags (7), housing the cage(6); and a vibrating device(8) is attached to the horizontal frame; such that ,when the vibrating device (8) vibrates, the horizontal frame(1) vibrates , causing the vertical hollow pipes (2) in every filter bag(7) to vibrate, enabling the particulate matter accumulated on the outside of the filter bags (7) to slide down, thus cleaning the filter bag (7). Ref.Fig.1

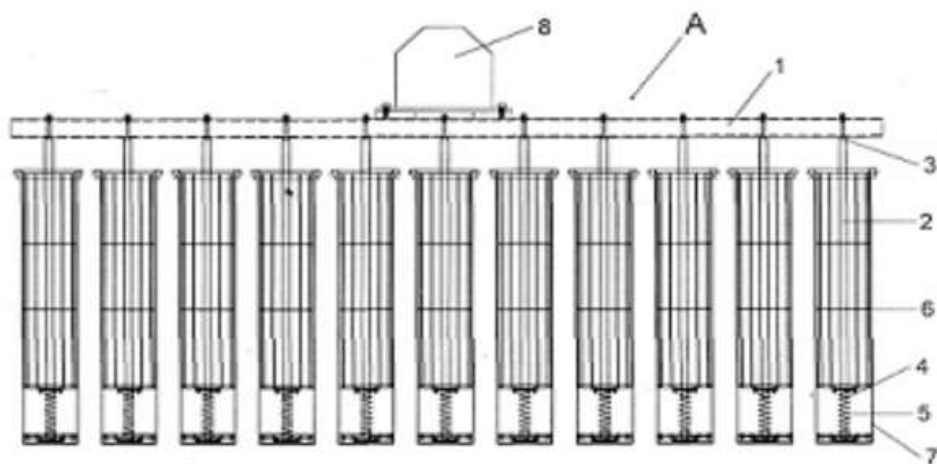


FIGURE 1

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : DISTRIBUTION PLATE WITH BLADES FOR ROTOR OF A VSI CRUSHER

(51) International classification :B02C0013286000, B02C0013280000, B02C0019000000, B02C0013300000, F01D0005220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KALANI MECHANICAL WORKS PVT.LTD.Address of Applicant :H-2, Old MIDC SATARA - 415004
SATARA -----

Name of Applicant : NA

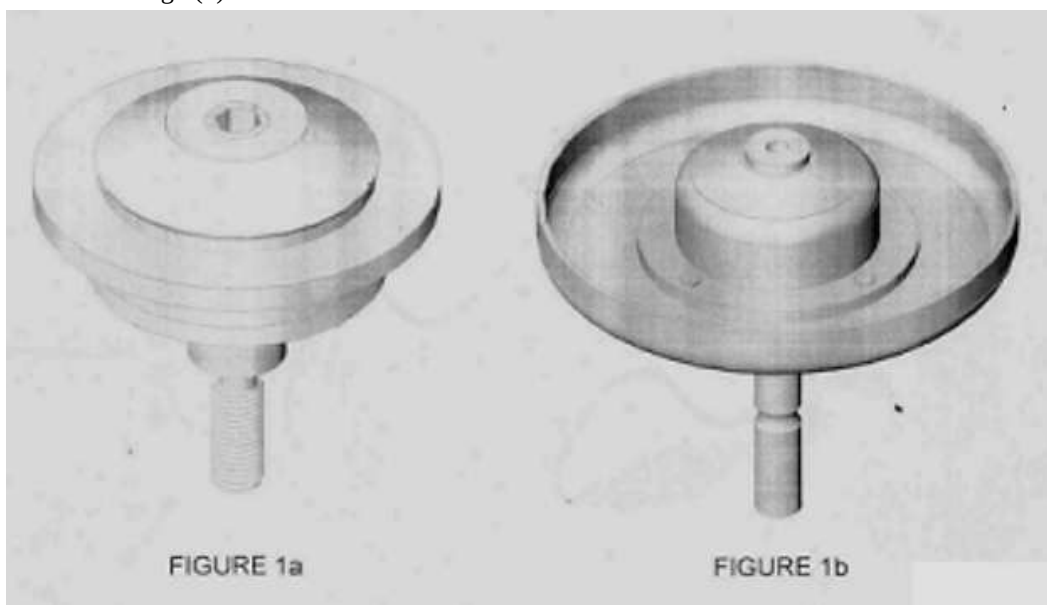
Address of Applicant : NA

(72)Name of Inventor :

1)KALANI JUGALKISHORE KUNJILALAddress of Applicant :H-2, Old MIDC SATARA - 415004
SATARA -----

(57) Abstract :

ABSTRACT Distribution Plate with blades for rotor of a VSI crusher The invention relates to a distribution plate (1) provided with at least one pair of blade (2) for revolving in the direction opposite to that of a rotor (3) of the VSI Crusher. Due to suction, air between the two blades (2) gets out creating vacuum thus enabling the blades to revolve in reverse direction to that of the rotor(3) of the VSI crusher. Ref.Fig.2(b)



No. of Pages : 15 No. of Claims : 9

(54) Title of the invention : TECHNIQUES FOR START-UPS TOWARDS INDIAN DIGITAL ECONOMY GROWTH

(51) International classification :G06Q0050200000, G06Q0040020000, G06Q0020400000, G06Q0020380000, G06F0009440100

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Sandeep Malu

Address of Applicant :Associate Professor, Shri Vaishnav Institute of Management, Gumasta Nagar, Scheme No. 71, Indore (M.P.) , India -----

2)Dr. Deepa Joshi

3)Dr. Vishal Purohit

4)Mr. Saideep Shrivastava

5)Dr. Anukool Manish Hyde

6)Mr. Robin Neema

7)Ms. Mahak Badkur

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sandeep Malu

Address of Applicant :Associate Professor, Shri Vaishnav Institute of Management, Gumasta Nagar, Scheme No. 71, Indore (M.P.) , India -----

2)Dr. Deepa Joshi

Address of Applicant :Associate Professor, Shri Vaishnav Institute of Management, Gumasta Nagar, Scheme No. 71, Indore (M.P.) , India -----

3)Dr. Vishal Purohit

Address of Applicant :Faculty (Commerce), Dr. B. R. Ambedkar University of Social Sciences, Mhow, (M.P.) , India -----

4)Mr. Saideep Shrivastava

Address of Applicant :Assistant Professor, Shri Vaishnav Institute of Management, Gumasta Nagar, Scheme No. 71, Indore (M.P.), India -----

5)Dr. Anukool Manish Hyde

Address of Applicant :Professor and Head- HR, Prestige Institute of Management and Research, Scheme No. 54, Indore, Madhya Pradesh, India -----

6)Mr. Robin Neema

Address of Applicant :Assistant Professor, Vishisht School of Management, DAVV, Indore, (M.P.) , India -----

7)Ms. Mahak Badkur

Address of Applicant :Assistant Professor, Shri Vaishnav Institute of Management, Gumasta Nagar, Scheme No. 71, Indore (M.P.) , India -----

(57) Abstract :

ABSTRACT TECHNIQUES FOR START-UPS TOWARDS INDIAN DIGITAL ECONOMY GROWTH The present disclosure is a technique for startups towards digital economic growth that is the present disclosure covers two aspects of the economy such as education and finances. The present disclosure also discloses a method for boosting education startup's growth using VR technology which provides hologram 3D images of teachers even at the student is at home. The VR software can be installed in the student computer or any other device and the students can view teachers using VR software installed with the help of VR HMD. The monitoring software is installed in the student's devices, the monitoring software is configured with a camera for collecting images of students. In an aspect, the present disclosure also discloses, blockchain technology can be used in KYC verification, payments, settlements, and loans for reducing error-free and secure financial services. .

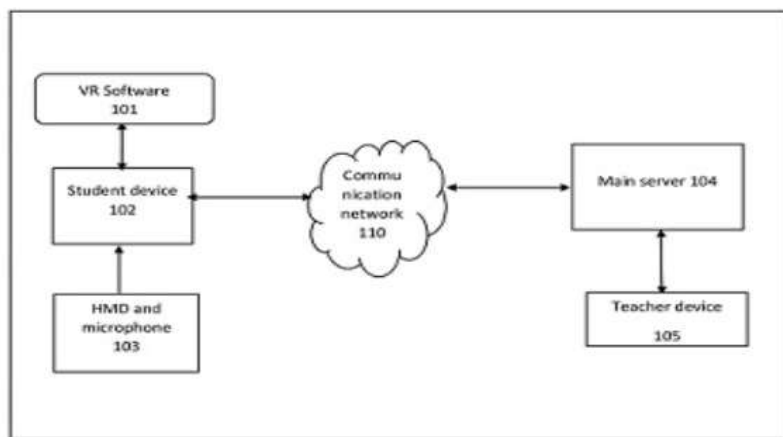


Fig.1

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221030071 A

(19) INDIA

(22) Date of filing of Application :25/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ENTERPRISE FINANCIAL RISK EXPOSURE MANAGEMENT SYSTEM

(51) International classification :G06Q0010060000, G06Q0040080000, G06Q0040060000, C07K0016180000, H02N0002180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Shiva Johri

Address of Applicant :Associate Professor, Management Discipline, Department of Management, Oriental College of Management, Oriental Group of Institutes Bhopal , Madhya Pradesh, India -----

2)Dr Somanchi Hari Krishna

3)Prof. (Dr.) Meenakshi Sharma

4)Dr. Ganesh Ramesh Teltumbade

5)Dr. Anju Gupta

6)Dr Syed Khaja Safiuddin

7)Dr. Shaili Gala

8)Dr. Ujjwal Mishra

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Shiva Johri

Address of Applicant :Associate Professor, Management Discipline, Department of Management, Oriental College of Management, Oriental Group of Institutes Bhopal , Madhya Pradesh, India -----

2)Dr Somanchi Hari Krishna

Address of Applicant :Associate Professor, Department of Business Management,Vignana Bharathi Institute of Technology, Aushapur Village Ghatkesar Mandal Medichal Malkajigiri , Telangana, India -----

3)Prof. (Dr.) Meenakshi Sharma

Address of Applicant :Associate Dean, Department of Management Mangalmay Institute of Management and Technology, Greater Noida, U.P., India -----

4)Dr. Ganesh Ramesh Teltumbade

Address of Applicant :I/c Director & Associate Professor, Mahatma Gandhi Vidyamandir's Institute of Management and Research, Nashik, Maharashtra, India -----

5)Dr. Anju Gupta

Address of Applicant :Principal & Professor, Khandelwal Vaish Girls Institute of Technology, Jaipur, Rajasthan, India -----

6)Dr Syed Khaja Safiuddin

Address of Applicant :Associate Professor, Department of Management and Commerce, Maulana Azad National Urdu University, Gachibowli, Hyderabad, Telangana, India -----

7)Dr. Shaili Gala

Address of Applicant :Assistant Professor, Department of Accountancy, Smt. P N Doshi Women's College, Ghatkopar west, Mumbai, Maharashtra, India -----

8)Dr. Ujjwal Mishra

Address of Applicant :MIT College of Management MIT ADT University Pune, Maharashtra, India -----

(57) Abstract :

ABSTRACT ENTERPRISE FINANCIAL RISK EXPOSURE MANAGEMENT SYSTEM The expanding business world is exposed to different scenarios everyday and thus required a more efficient check and balance system to monitor its risks. This led to integrated enterprise risk management systems. The importance of ERM is broad and far-reaching. A comprehensive ERM framework improves risk reporting. This makes it easier to identify the risks and manage them better by implementing proper controls to manage its effect and/or threats. The relation between firm performance and ERM is not very clear. ERM is not seen to have a major effect on firm performance however, it adds to it.

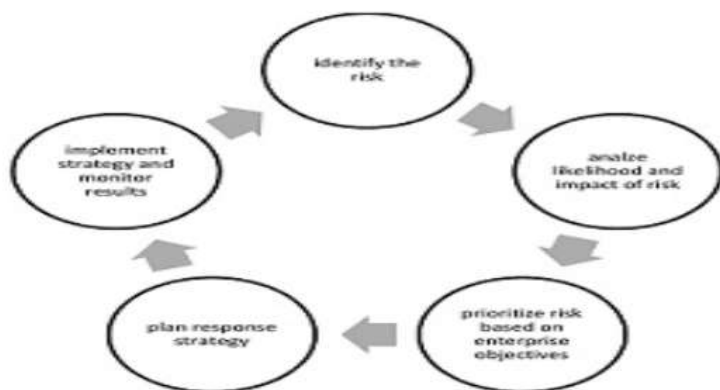


Figure 1 Steps in Enterprise Risk Management

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : AN APPARATUS FOR REMOVING A BROKEN FASTENER TRAPPED IN AN OBJECT

(51) International classification :G06Q0010100000, B25B0027180000, G04B0019220000, F01L0013000000, F16K0031040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)PHANSALKAR INDUSTRIES

Address of Applicant :Plot No. E-3/1, M.I.D.C. Kupwad, Sangli - 416436, Maharashtra, India -----

Name of Applicant : NA**Address of Applicant : NA**

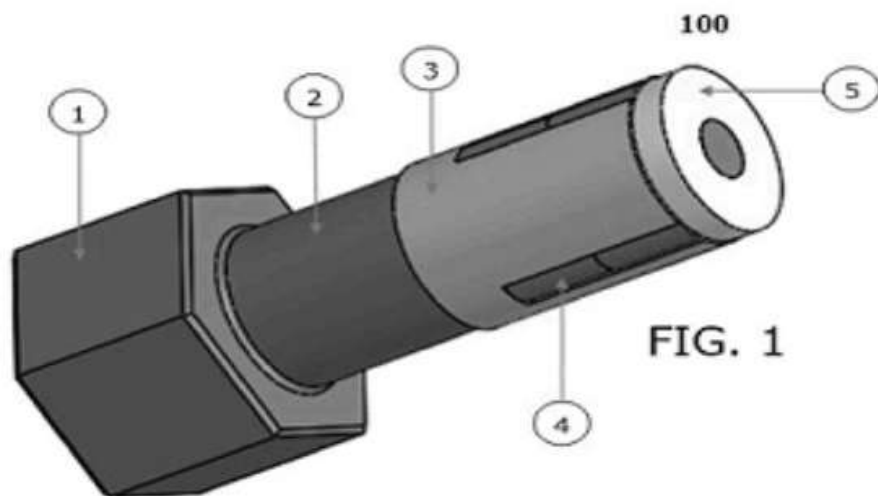
(72)Name of Inventor :

1)MR. ASHUTOSH SHANTARAM PHANSALKAR

Address of Applicant :Phansalkar Wada, Brahmanpuri, Ranade Galli, Miraj, Dist. Sangli, Maharashtra, India. Pin code - 416410 Miraj -----

(57) Abstract :

ABSTRACT TITLE: AN APPARATUS FOR REMOVING A BROKEN FASTENER TRAPPED IN AN OBJECT There was a long standing need to provide a tool which would remove a broken fastener trapped in an object. Present invention provides an apparatus (100) comprising a) a main body (2) having one or more cam profile(s)(7); b) one or more roller(s) (4) to slide on said cam profile(s) (7); c) a circular or a tubular cage (3) - rotatable around said main body (2)and surrounding said cam profile(s) (7), - holding and keeping said roller(s) (4) in contact with said cam profile(s) (7), - having slot(s) (15) with an outside opening (8) smaller than its inside opening (9) confronting said cam profile(s) (7) for allowing said roller(s) (4) to project outside from said slot(s) (15) without falling outside said cage (3); and d) a driving provision (1) for rotating said apparatus (100) in clockwise and anticlockwise direction. This is a very handy tool providing economic solution addressing the problem. Refer FIGURE 2:



No. of Pages : 23 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/05/2022

(21) Application No.202221030119 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : HERBAL COMPOSITION WITH ANTIMICROBIAL ACTIVITY

(51) International classification :A61K0036906600, A61K0009060000, A61K0009000000, A61K0036886000, A61K0036906800

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Dr. Yogesh Vaishnav

Address of Applicant :Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

2)Ms. Rajni Yadav

3)Mr. Arpan Kumar Tripathi

4)Dr. Dusmanta Kumar Pradhan

5)Dr. Shekhar Verma

6)Khemkaran Ahirwar

7)Mr. Alok Sahu

8)Mr. Revendra Parganiha

9)Mr. Devendra Sahu

10)Dr. Ajit Kumar Pandey

11)Mr. Ashish Kumar Pandey

12)Mr. Deepak Kumar Biswas

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Yogesh Vaishnav

Address of Applicant :Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

2)Ms. Rajni Yadav

Address of Applicant :Assistant Professor, Faculty of Pharmacy, Kalinga University, Naya Raipur, Chhattisgarh, India-492101 -----

3)Mr. Arpan Kumar Tripathi

Address of Applicant :Associate Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

4)Dr. Dusmanta Kumar Pradhan

Address of Applicant :Principal, Raigarh College of Pharmacy, Kotrapali, Jurda, Near DPS, Raigarh, Chhattisgarh, India-496001 -----

5)Dr. Shekhar Verma

Address of Applicant :Professor and Principal, University College of Pharmacy, Pt. Deendayal Upadhyay Memorial Health Sciences and Ayush University of Chhattisgarh, Raipur, Chhattisgarh, India-493661 -----

6)Khemkaran Ahirwar

Address of Applicant :Assistant Professor, Sant Gahira Guru Vishwavidyalaya, Ambikapur, Sarguja, Chhattisgarh, India-497001 -----

7)Mr. Alok Sahu

Address of Applicant :Assistant Professor, School of Pharmacy, LCIT, Bilaspur, Chhattisgarh, India-495220 -----

8)Mr. Revendra Parganiha

Address of Applicant :Associate Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

9)Mr. Devendra Sahu

Address of Applicant :Associate Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

10)Dr. Ajit Kumar Pandey

Address of Applicant :Associate Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

11)Mr. Ashish Kumar Pandey

Address of Applicant :Associate Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

12)Mr. Deepak Kumar Biswas

Address of Applicant :Associate Professor, Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Junwani, Bhilai, Chhattisgarh, India-490020 -----

(57) Abstract :

Herbal ointments always gain favor because of their natural origin and lesser side effects. They rapidly absorb into the body and exerts desired medical results. The present invention relates to an herbal antimicrobial ointment, comprising, aloe vera extract 0.5 gm, turmeric extract 0.5gm, neem oil 0.6 gm, taken alone or in combination and emulsifying ointment 6 gm; wherein emulsifying ointment comprising of emulsifying wax 8 gm, soft paraffin 8 gm and liquid paraffin 4 ml. The present invention also relates to an herbal antimicrobial and antifungal ointment, comprising of aloe vera 0.4gm, turmeric 0.3gm, neem 0.3gm; and emulsifying ointment 8gm. The herbal antimicrobial ointment, wherein the emulsifying wax, comprising of cetosteryl alcohol 6.4gm, sodium lauryl sulphate 0.8gm and water 5ml. The present invention also relates to process for preparation of herbal antimicrobial ointment.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : NOVEL FAST DISINTEGRATING ORAL FILM FOR MANAGEMENT OF CARDIOVASCULAR DISORDER

(51) International classification :A61K0009000000, A61K0009200000, A61K0009700000, A61K0047380000, A61K0047320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)PAWAR VIJAYKUMAR TANAJIRAO

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF PHARMACY, NEAR CHITRANAGARI, KANDALGAON ROAD, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PAWAR VIJAYKUMAR TANAJIRAO

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF PHARMACY, NEAR CHITRANAGARI, KANDALGAON ROAD, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. -----

2)MORE HARINATH NIVRUTTI

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF PHARMACY, NEAR CHITRANAGARI, KANDALGAON ROAD, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. -----

3)BHATIA MANISH SUDESH

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF PHARMACY, NEAR CHITRANAGARI, KANDALGAON ROAD, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. -----

(57) Abstract :

Present invention is of novel fast disintegrating oral film of Lisinopril ion pair and Amlodipine for management of cardiovascular disorders. Reportedly, oral bioavailability of the lisinopril is 25 to 30%, assigned to its poor permeability. Hence, Ion pair is best alternative to increase the permeability of lisinopril. And this ion pair is used in the formulation of fast disintegrating oral film formulation. Calcium antagonists and ACE inhibitors in combination reduce blood pressure more than either drug-alone. Study showed the effectiveness of the strategy to prescribe fixed combination lisinopril + Amlodipine for the patients with hypertension in daily clinical practice in Ukraine for the prevention of cardiovascular complications. Oral fast disintegrating films (OFDF) is an emerging technology brings out formulations taken without water with quick onset of action and improved patient compliance. Oral films provide better drug utilization in by-passing the first pass metabolism, enhance drug bioavailability, mask the bitter taste of the drug and do not need water to swallow. In this invention film formulation was prepared by solvent casting of both drugs-PEG 400 complex along with Pullulan as Film forming agent. Sodium starch glycolate is used as Superdisintegrant. The FTIR study conducted using a combination of drugs along with excipients and polymers revealed that combination can be safely prepared. Formulation was optimized using 3 factorial design. LAOF8 batch was selected as optimized batch as having 95 ± 1.27 folding endurance and 22 ± 0.12 seconds disintegration time. The film formulation was evaluated for parameter such as thickness, Weight variation, surface pH, Folding endurance, uniformity of drug content, percentage of moisture loss, disintegration time and accelerated stability study. All the physical parameters were in acceptable limit of standard specification. In vivo and pharmacokinetic results showed that, there is almost 1.5 times increase in Cmax and AUC of Lisinopril and Amlodipine from fast dissolving oral film as compared to marketed formulation. Hence this novel combination could be used to improve patient compliance towards the effective management of cardiovascular disease.

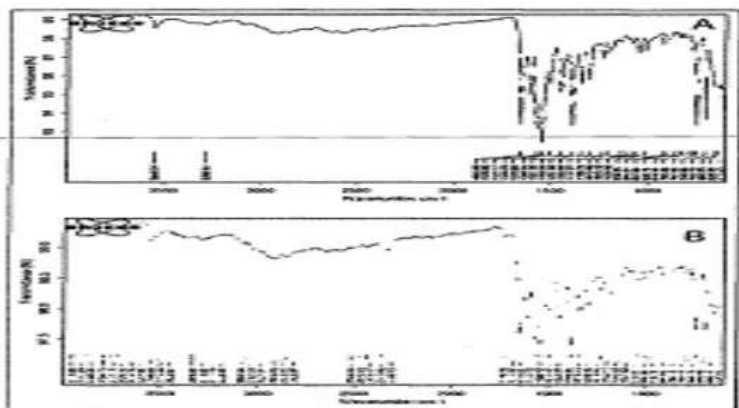


Figure 1: FTIR Spectra of (A) lisinopril
(B) Lisinopril ion pair

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221030178 A

(19) INDIA

(22) Date of filing of Application :26/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : INVESTIGATION OF USABILITY AND DIFFERENT FACTORS AFFECTING LIBRARY WEBSITE BUILDING USING INFORMATION SCIENCE

(51) International classification :G06Q0010040000, G06Q0030060000, G06Q0050200000, G06Q0090000000, G09B0007000000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Mr. R. K. KISHORE PATNALA

Address of Applicant :34, CANPARK BULDG, GUJRAT COLONY KOTHRUD PUNE MAHARASHTRA 411038 INDIA
Pune -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. R. K. KISHORE PATNALA

Address of Applicant :34, CANPARK BULDG, GUJRAT COLONY KOTHRUD PUNE MAHARASHTRA 411038 INDIA
Pune -----

(57) Abstract :

Existing investigations have broadly investigated factors that affect clients' goals to utilize college library website assets; yet little consideration has been given to factors affecting college library web architecture. This paper investigates factors that influence college library web architecture and evaluates the progress of the college library website from the two architects' and clients' points of view. The discoveries show that while arranging a website, university webwebsite specialists think about college rules, survey different websites, and talk with specialists and other divisions inside the library; notwithstanding, assets and preparing for the plan interaction are deficient. While web specialists survey their websites as exceptionally effective, client assessments are rather lower. To guarantee a specific level of convenience, a library website ought to be methodically planned, particularly since end clients comprise a huge number of individuals with various requirements and requests. The central target of this examination was to explore how various sorts of end clients (for example understudies, understudies, the functioning populace, seniors, and specialists) answer a library website regarding its viability, effectiveness, and fulfillment, which together address its convenience. The responses were acquired by performing formal ease of use testing, counting verbally process convention, log examination, and polls. The aftereffects of the factual investigation show that various gatherings of end clients accomplish various degrees of adequacy and proficiency, while there is no huge contrast between bunches in fulfillment level. The outcomes likewise show that members did not accomplish the limit for a usable website. In light of the recognized shortcomings, specialists present suggestions for working on a website's helpfulness, particularly for non-experienced clients.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2022

(21) Application No.202221030283 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FINANCIAL MANAGEMENT AND DECISION MAKING IN THE 21ST CENTURY

(51) International classification :G06Q0040000000, G06Q0010060000, G06Q0010100000,
G06Q0040060000, G06Q0010040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Aftab Anwar Shaikh
Address of Applicant :Professor, Principal Poona College of Arts, Science and Commerce, Pune, Maharashtra, India -----
2)Dr. Sayyad Vakeel Ahmad Munaf Ali
3)Lakshmi. V
4)Dr. Shalini Singh
5)Dr. Bhavna Sharma
6)Dr. Shubhanker Yadav
7)Dr. Pooja Nagpal
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Aftab Anwar Shaikh
Address of Applicant :Professor, Principal Poona College of Arts, Science and Commerce, Pune, Maharashtra, India -----
2)Dr. Sayyad Vakeel Ahmad Munaf Ali
Address of Applicant :Assistant Professor, Department of Commerce, PG and Research Centre, A.K.I's Poona College of Arts, Science and Commerce Pune, Maharashtra, India -----
3)Lakshmi. V
Address of Applicant :Assistant Professor and Head Commerce, Acharya Institute Of Graduate Studies, Bengaluru, Karnataka, India -----
4)Dr. Shalini Singh
Address of Applicant :Assistant Professor, School of Commerce, Finance & Accountancy Christ (Deemed to be University), Delhi NCR Ghaziabad, U.P., India -----
5)Dr. Bhavna Sharma
Address of Applicant :Assistant Professor, Department of Commerce, JIMS Engineering Management Technical Campus, Greater Noida, U.P., India -----
6)Dr. Shubhanker Yadav
Address of Applicant :Assistant Professor, School of Commerce, Finance & Accountancy Christ (Deemed to be University), Delhi NCR Ghaziabad, U.P., India -----
7)Dr. Pooja Nagpal
Address of Applicant :Assistant Professor, Department of Management Studies, St Aloysius College (AIMIT), Dakshina Kannada, Mangalore, Karnataka, India -----

(57) Abstract :

This research explored financial management's role in company decision-making. The study aims to determine the role of financial management in business financial decision-making and the extent of responsibility to make decisions and commitments in entrusted tasks through an integrated concept of financial management in business and the role of the CFO in commercial and financial institutions. The research relies on a descriptive-analytical curriculum, historical data, and primary materials from a chosen employee survey. The study's outcomes include the link between financial management and planning, taking suitable judgments while getting money, regulating the organisation, and investing in commercial enterprises. Commercial businesses' financial management is not autonomous from other departments, which worry about financial analysis. The original hypothesis indicated a link between financial management decisions and business planning.

BRIEF DESCRIPTION OF THE DRAWINGS

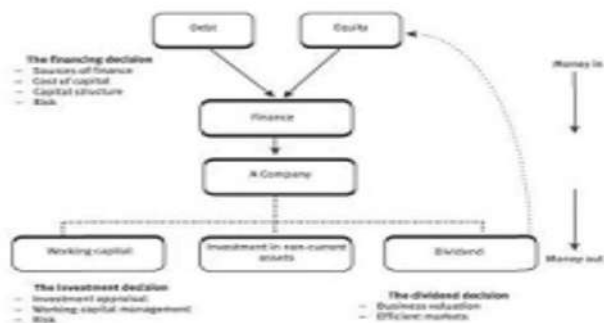


Fig.1 Depicts the Financial Management.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : A SYSTEM FOR ENERGY HARVESTING

(51) International classification :H02N0002180000, H03H0011480000, H01L0041113000, H01L0027200000, G01S0007526000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shri Ramdeobaba College of Engineering and Management

Address of Applicant :Ramdeo Tekdi, Gittikhadan, Katol Road, Nagpur-440013, Maharashtra, India. -----

2)PANDEY, Sandeepkumar Ramsewak

3)ZALKE, Jitendra Babanrao

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PANDEY, Sandeepkumar Ramsewak

Address of Applicant :Department of Electronics Engineering, Shri Ramdeobaba college of Engineering and Management, Ramdeo Tekdi, Gittikhadan, Katol road, Nagpur- 440013, Maharashtra, India. -----

2)ZALKE, Jitendra Babanrao

Address of Applicant :Department of Electronics Design Technology, Shri Ramdeobaba college of Engineering and Management, Ramdeo Tekdi, Gittikhadan, Katol road, Nagpur- 440013, Maharashtra, India. -----

(57) Abstract :

Abstract Title: A system for energy harvesting The present invention is to provide a system (100) for energy harvesting. The system (100) includes a piezoelectric harvester (10) for sensing a mechanical vibration and converts the mechanical vibrations into corresponding electrical signals. Also, a power conditioning unit (20) is electrically connected to the piezoelectric harvester (10) to extract the charge available from the piezoelectric harvester (10). A load (30) for receiving the power output from the piezoelectric harvester (10). Further, an active inductor (LA) (40) is electrically connected between the piezoelectric harvester (10) and the power conditioning unit (20). The active inductor (LA) (40) facilitates the power conditioning unit (20) to extract maximum power delivered to the load (30) and improve the power delivery to the load (30). Figure 2

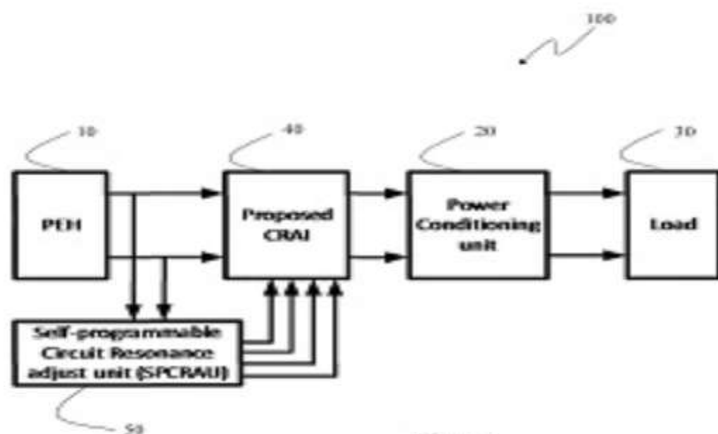


Figure 2

No. of Pages : 18 No. of Claims : 6

(54) Title of the invention : A DEVICE FOR ANALYSING AN OCCLUSAL PLANE

(51) International classification :B23D0059000000, G02B0021240000, G01B0005000000, F16M0011040000, A61C0019050000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DESHMUKH, Vishwajeet A.

Address of Applicant :Department of Prosthodontics and Crown & Bridge, School Of Dental Sciences, Krishna Institute of Medical Sciences Deemed to be University, Karad, Satara, Maharashtra -415539. -----

2)REDDY, Arem Sarath Kumar**3)SANYAL, Pronob Kumar**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DESHMUKH, Vishwajeet A.

Address of Applicant :Department of Prosthodontics and Crown & Bridge, School Of Dental Sciences, Krishna Institute of Medical Sciences Deemed to be University, Karad, Satara, Maharashtra -415539. -----

2)REDDY, Arem Sarath Kumar

Address of Applicant :Department of Prosthodontics and Crown & Bridge, School Of Dental Sciences, Krishna Institute of Medical Sciences Deemed to be University, Karad, Satara, Maharashtra -415539. -----

3)SANYAL, Pronob Kumar

Address of Applicant :Department of Prosthodontics and Crown & Bridge, School Of Dental Sciences, Krishna Institute of Medical Sciences Deemed to be University, Karad, Satara, Maharashtra -415539. -----

(57) Abstract :

Abstract Title: A device for analysing an occlusal plane The present invention provides a device 100 for analysing an occlusal plane. The device 100 has a vertical support 10. An interpupillary plate 20 is arranged at an upper portion of the vertical support 10 for analysing a reference point of a plane of rim. A camper's plate 30 arranged parallelly to the interpupillary plate 20. Further, a bite fork 40 is arranged at a lower portion of the vertical support 10. Furthermore, a first knob 50a and a second knob 50b are configured on the vertical support 10. Upon operating the first knob 50 and the second knob 50b, the interpupillary plate 20 is adapted to move vertically therealong for analysing a reference point of the plane of the rim and the camper's plate 30 is adapted to move vertically therealong to analyse the parallelism of the occlusal plane with respect to a camper's line, respectively. Figure 1

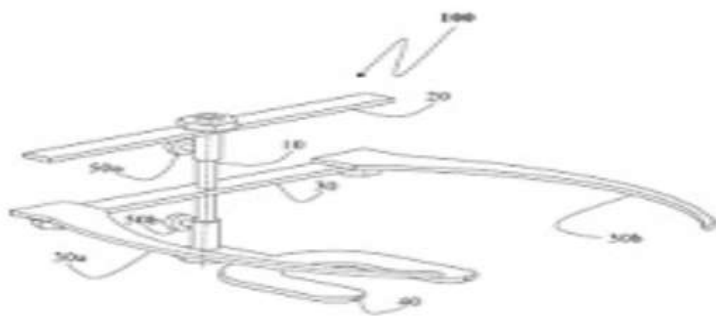


Figure 1

No. of Pages : 15 No. of Claims : 5

(51) International classification :B01J0035000000, C02F0001720000, B01J0019240000, C02F0001360000, B01D0053860000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)MANISHA VITTHAL BAGAL

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

2)BHAGYESH ANAND NANDGAWLE

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

3)PARAG RATNAKAR GOGATE

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

4)ASHISH VISHWANATH MOHOD

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

5)ROHAN VIJAY THOSAR

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

6)SAIF MUNAF KHALFAY

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

(57) Abstract :

The present invention describes an effective wastewater treatment approaching a continuous mode using an ultrasonic- photocatalytic tray tower. The main novelty is combining advanced oxidation processes such as ultrasonic cavitation and photolytic oxidation using a efficient design facilitating continuous operation. The reactor can be used to treat the wastewater or industrial effluent such as textiles, paper and pulp, plastics, pesticides, insecticides, wood preservatives, and others on a large scale of operation. The major advantage of this apparatus is that it can be operated at a large scale with a continuous operation and is also easy to operate and maintain.

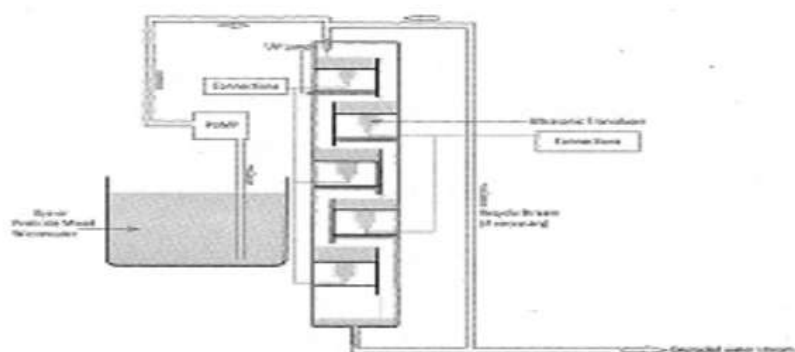


Figure 1: Elevation-front view of schematic representation of Ultrasonic-photocatalytic tray tower with complete required assembly.

(51) International classification :C10L0001020000, C11C0003000000, C11C0003100000, C12P0007100000, B01J0019000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI
Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MANISHA VITTHAL BAGAL
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
2)BHAGYESH ANAND NANDGAWLE
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
3)PARAG RATNAKAR GOGATE
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
4)ASHISH VISHWANATH MOHOD
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
5)ROHAN VIJAY THOSAR
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
6)SAIF MUNAF KHALFAY
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
7)SANDHYA DILIP JADHAV
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
8)MAHESH ARJUN SURYAWANSHI
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
9)GAJANAN BABU KUMBHAR
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----
10)VIJAY BALASO MANE
Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

(57) Abstract :

The present invention describes a prototype design of an ultrasonic reactor in the form of a tray tower used for biodiesel synthesis effectively in a continuous mode. It is a modified version of the ultrasonic-photocatalytic tray tower. The main novelty of this ultrasonic tray tower reactor is the handling of reaction mixture at a large capacity. The reactor can be used to synthesize biodiesel via edible as well as non-edible oil in an effective way. The major advantage of this apparatus is that it can be operated at a large scale with a continuous operation and is also easy to operate and maintain

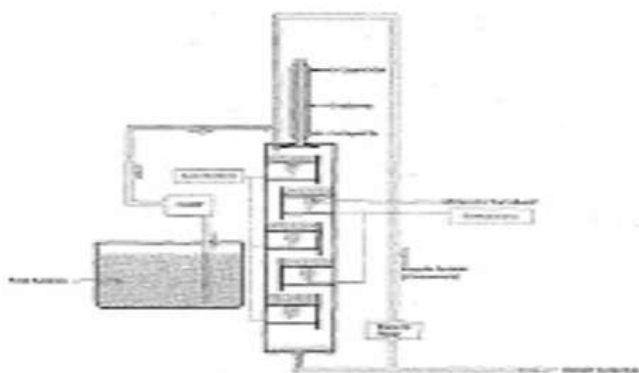


Figure 1: Elevation-front view of schematic representation of ultrasonic reactor in the form of a tray tower with complete required assembly.

(51) International classification :B01J0035000000, C02F0001320000, B01J0019120000, C02F0001720000, C02F0001300000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :**1)BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI**

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)MANISHA VITTHAL BAGAL**

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

2)BHAGYESH ANAND NANDGAWLE

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

3)PARAG RATNAKAR GOGATE

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING AISSMSCOE PUNE MAHARASHTRA,INDIA-411001 -----

4)ASHISH VISHWANATH MOHOD

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING AISSMSCOE PUNE MAHARASHTRA,INDIA-411001 -----

5)VIJAY THOSAR

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

6)ROHAN VIJAY THOSAR

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

7)SAIF MUNAF KHALFAY

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING BHARATI VIDYAPEETH COLLEGE OF ENGINEERING,NAVI MUMBAI SECTOR 7, CBD, BELAPUR, NEAR KHARGHAR RAILWAY STATION, NAVI MUMBAI - 400614, MAHARASHTRA, INDIA. -----

(57) Abstract :

The present invention describes a continuous mode wastewater treatment approach using aswirling flow ultraviolet lamp induced reactor containing various additives and catalysts. It is a modified photocatalytic reactor that is used for the treatment of effluent from industries such as textiles, paper and pulp, plastics, pesticides, insecticides, wood preservatives, and others. The current work introduces a new photocatalytic oxidationmethod that operates continuously. The main advantage of this apparatus is that it is simple to assemble, maintain, and operate.

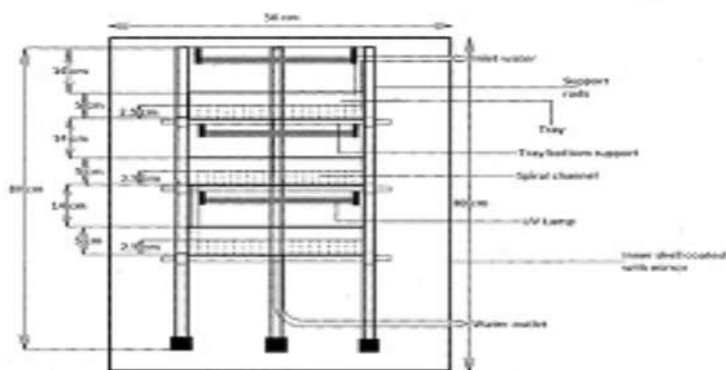


Figure 1: Front View of Continuous Swirling Flow Photocatalytic Reactor

(54) Title of the invention : A PROCESS FOR PREPARATION OF FRUIT ICE - CREAM USING ICE CREAM BASE

(51) International classification :A23G0009280000, A23G0009420000, A23G0009320000, B65D0005540000, A23G0009500000

(86) International Application No	:NA
Filing Date	:NA

(87) International Publication No : NA

(61) Patent of Addition :NA
to Application Number :NA
Filing Date :NA

(62) Divisional to
Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Prashant kumbhar

Address of Applicant :K- 604, usha complex, Village Road,
Bhandup (W), Mumbai -400078 Mumbai -----

2)Ratan Nitin Kashid

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prashant kumbhar

Address of Applicant :K- 604, usha complex, Village Road,
Bhandup (W). Mumbai -400078 Mumbai -----

2)Ratan Nitin Kashid

Address of Applicant : G-204, Usha complex, Village road,
Bhandup west, Mumbai-400078 Mumbai -----

(57) Abstract :

ABSTRACT A process for preparation of fruit Ice - cream using Ice cream base Accordingly, a process for producing an ice-cream by using an ice cream base with natural fruit and to an ice-cream of high nutritional value is disclosed. The present invention helps don't face the 'ice crystals' issue with products. Taste, texture and quality is much superior compared to competitors because of usage of actual ingredients and fresh making. Transportation cost is less because we transport raw material in Tetrapak of base and few ingredients through normal transportation without worrying about wastage and travel time. The advantage (Taste, texture) of freshly made ice cream with real ingredients over frozen (Already made) ice cream is like freshly made fruit juice compared to canned/packageged juice. Fig 2



Fig 1

No. of Pages : 21 No. of Claims : 3

(54) Title of the invention : AN ANCHORAGE PLATE FOR POST TENSIONING OF A PRESTRESSED CONCRETE

(51) International classification :E04C0005120000, A61B0017800000, F03D0013200000, B65D0083000000, A61F0002380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shri Ramdeobaba College of Engineering and Management

Address of Applicant :Ramdeo Tekdi, Gittikhadan, Katol Road, Nagpur-440013, Maharashtra, India. -----

2)KHAPRE, Rajendra**3)JAIN, Monika**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KHAPRE, Rajendra

Address of Applicant :Shri Ramdeobaba College of Engineering and Management, RamdeoTekdi, Katol Road, GittiKhadan, Nagpur 440013, India. -----

2)JAIN, Monika

Address of Applicant :Shri Ramdeobaba College of Engineering and Management, RamdeoTekdi, Katol Road, GittiKhadan, Nagpur 440013, India. -----

(57) Abstract :

Abstract Title: An anchorage plate for post-tensioning of a prestressed concrete. The present invention relates to an anchorage plate for post-tensioning of a prestressed concrete (11). Existing anchorage plates have load dispersion perpendicular to the plate, which causes bursting force to develop within the plate. The anchorage plate (100) includes a flat surface (10) with a definite thickness, a protrusion (20) having a hole (20a) which is extending from the flat surface (10), a ring element (30) arranged on the flat surface (10) circumferentially surrounding the protrusion (20). The ring element (30) has a conical projection with an angle (θ) lesser than 90°. The anchorage plate (100) causes load dispersion along an angle lesser than 90°, which reduces bursting force and maximum transverse tensile stress in the anchorage zone of the anchorage plate (100). [Figure 2].

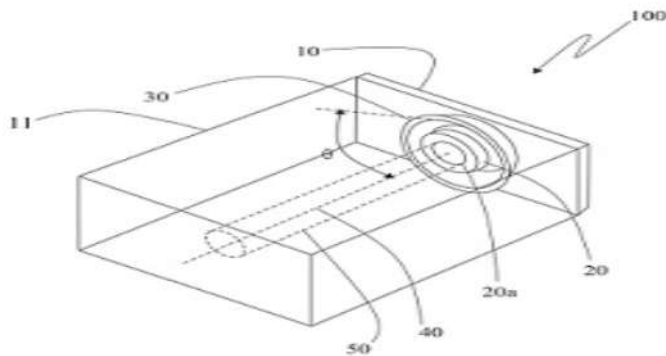


Figure 2

No. of Pages : 15 No. of Claims : 5

(51) International classification :A61K0009000000, A61K0009160000, A61K0009200000, A61K0009500000, A61K0009510000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Manojkumar M. Nitalikar
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404 Walwa -----

2)Miss. Priyanka V. Bagade

3)Dr. Shrinivas K. Mohite

4)Dr. Indrayani D. Raut

5)Miss. Shubhangi Y. Khade

6)Mr. Abhishek S. Patil

7)Mr. Bilal J. Shaikh

8)Miss. Avitashri S. Patil

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Manojkumar M. Nitalikar
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404 Walwa -----

2)Miss. Priyanka V. Bagade
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----

3)Dr. Shrinivas K. Mohite
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----

4)Dr. Indrayani D. Raut
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----

5)Miss. Shubhangi Y. Khade
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----

6)Mr. Abhishek S. Patil
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----

7)Mr. Bilal J. Shaikh
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----

8)Miss. Avitashri S. Patil
Address of Applicant :Rajarambapu College of Pharmacy, Kasegaon, Walwa, Sangli, Maharashtra, Pin Code: 415404. Walwa -----

(57) Abstract :

The present invention relates to investigate pharmaceutical potentialities of a polymeric micro particulates drug delivery system for modulating the drug profile of poorly water-soluble anti-epileptic drug Lamotrigine. Microspheres were prepared by spray drying technique with PVP as polymer. Lamotrigine was entrapped in the microspheres at various polymer ratios. The microspheres were evaluated for various parameters like micrometrics properties cumulative in-vitro drug release, by FTIR, DSC and SEM. The prepared microspheres were found in spherical shape and showed good entrapment efficiency (78.60%). FTIR and DSC results indicated that the drug was compatible with the polymers. Amongst all the formulations, B4 (drug: Lamotrigine and polymer Polyvinylpyrrolidone) showed excellent drug release properties with 88.36% of drug released at the end of 1 hr. Microspheres prepared using Polyvinylpyrrolidone can be used as a drug delivery system for Lamotrigine for epilepsy treatment.

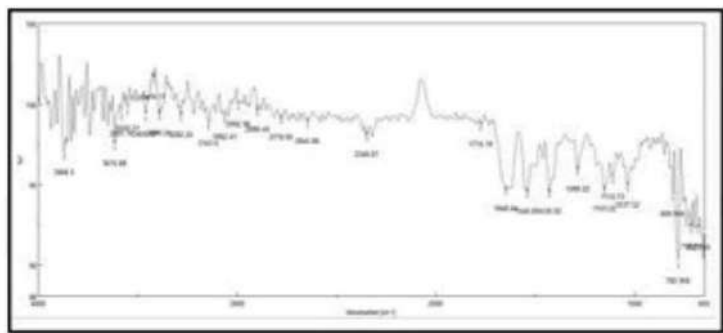


Figure 1

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(19) INDIA

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(21) Application No.202221030720 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN APPARATUS AND SYSTEM FOR DENOISING SIGNALS USING WAVELETS.

(51) International classification :G06T0005000000, G06T0005100000, A61B0005000000, H01L0029792000, G01P0003489000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Akhilesh Jain
Address of Applicant :Oriental College of Technology, Associate Professor Electronics and Communication Department, Bhopal, Madhya Pradesh, 462021, INDIA -----
2)Dr. Shivali Verma
3)Dr. Puran Gour
4)Dr. Ravi Shankar Mishra
5)Dr. Ashish Kumar Srivastava
6)Dr. Rajesh Kumar Nema
7)Dr. Swapnil Jain
8)Dr. Shravan Kumar
9)Prashant Yadav
10)Rahul Pandey
11)Dheeraj Kumar
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Akhilesh Jain
Address of Applicant :Oriental College of Technology, Associate Professor Electronics and Communication Department, Bhopal, Madhya Pradesh, 462021, INDIA -----
2)Dr. Shivali Verma
Address of Applicant :Oriental College of Technology, Associate Professor Department of Basic Sciences, Bhopal, Madhya Pradesh,462021, INDIA Bhopal -----
3)Dr. Puran Gour
Address of Applicant :NRI Group Of Institutions, Professor Electronics and Communications Department, Bhopal, Madhya Pradesh , 462021, INDIA Bhopal -----
4)Dr. Ravi Shankar Mishra
Address of Applicant :Sagar Institute of Science and Technology, Professor and Head Department of ECE, Bhopal, Madhya Pradesh, 462044, INDIA Bhopal -----
5)Dr. Ashish Kumar Srivastava
Address of Applicant :UIE, Chandigarh University, Professor, CSE Department, Chandigarh, 160014, INDIA Chandigarh -----
6)Dr. Rajesh Kumar Nema
Address of Applicant :IES College Of Technology, Professor Electronics and Communication, 462044, Madhya Pradesh, INDIA Bhopal -----
7)Dr. Swapnil Jain
Address of Applicant :Shri Vaishnav Vidyapeeth Vishwavidyalaya, Assistant Professor Department of Electrical and Electronics, Indore, Madhya Pradesh, 453111, INDIA Indore ----
8)Dr. Shravan Kumar
Address of Applicant :Research Scholar, Rabindra Nath Tagore University , Bhopal, Madhya Pradesh, 464993 INDIA Bhopal -----
9)Prashant Yadav
Address of Applicant :Assistant Professor And HOD, Department Of Computer Science And Engineering, Guru Nanak Institute Of Technology, Dahegaon, Kalmeshwar Road, Nagpur, Maharastra, 441501, INDIA Nagpur -----
10)Rahul Pandey
Address of Applicant :School of Research and Technology, Peoples University Bhopal, Assistant Professor Electronics and Communication Department, Bhopal, Madhya Pradesh, 462037, INDIA Bhopal -----
11)Dheeraj Kumar
Address of Applicant :RNTU UNIVERSITY, Assistant Professor, Bhopal, Madhya Pradesh, 464993, INDIA Bhopal -----

(57) Abstract :

The apparatus and system for denoising signals using wavelets system and denoising signals using wavelets. More particularly relates to methods, structures and packages for denoising a signal using discrete wavelet transformation The approach for denoising a signal may additionally further include transforming, using an inverse discrete wavelet transformation, as a minimum the denoised element component for each of the determined resolution stages into a denoised signal. Also each of the primary variable threshold and the second one variable threshold, respectively for each of the wide variety of different resolutions incorporates a lower variable threshold and an upper variable threshold and for every of the decided range of various resolutions to be used in thresholding, evaluating each coefficient within the first wavelet component with a variable threshold, the variable threshold for every of the decided wide variety of different resolutions being unique, and selectively converting a cost of the coefficient process.

No. of Pages : 25 No. of Claims : 5

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE (AI) & MACHINE LEARNING BASED SYSTEM FOR DETECTING TAMPERING IN AN IMAGE AND METHOD THEREOF

(51) International classification :G06K0009620000, G06N0020000000, G06F0016583000, H04N0007180000, G06K0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mrs.Rashmi Pandey

Address of Applicant :Assistant Professor, Department of Computer Application, ITM, Gwalior, Madhya Pradesh, India. Pin Code:474001 Gwalior ----

2)Dr. Anand Kumar Pandey

3)Mrs.Priusha Narwariya

4)Mr.Neeraj Goyal

5)Mr.Brajesh Kumar Shrivastava

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mrs.Rashmi Pandey

Address of Applicant :Associate Professor, Department of Computer Application, ITM, Gwalior, Madhya Pradesh, India. Pin Code:474001 Gwalior -----

2)Dr. Anand Kumar Pandey

Address of Applicant :Associate Professor, Department of Computer Science and Application, ITM University, Gwalior, Madhya Pradesh, India. Pin Code:474001 Gwalior -----

3)Mrs.Priusha Narwariya

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, ITM, Gwalior, Madhya Pradesh, India. Pin Code:474001 Gwalior ----

4)Mr.Neeraj Goyal

Address of Applicant :Assistant Professor, Department of Computer Science and Application, ITM University, Gwalior, Madhya Pradesh, India. Pin Code:474001 Gwalior -----

5)Mr.Brajesh Kumar Shrivastava

Address of Applicant :Assistant Professor, Department of Computer Science and Application, ITM University, Gwalior, Madhya Pradesh, India. Pin Code:474001 Gwalior -----

(57) Abstract :

[034] The present invention discloses an Artificial Intelligence (AI) & machine learning based system for detecting tampering in an image and method thereof. The system includes, but not limited to, a memory which stores instructions; one or more processors attached to the memory wherein the one or more processors, when executing the instructions which are stored, are configured to have: an image receiving module receiving one or more original images. Further, the processing unit is configured for detecting a tampering in the image based, at least in part, by classification features generated based, at least in part, on the image data according to a Hilbert-Huang transformation. Accompanied Drawing [FIG. 1]

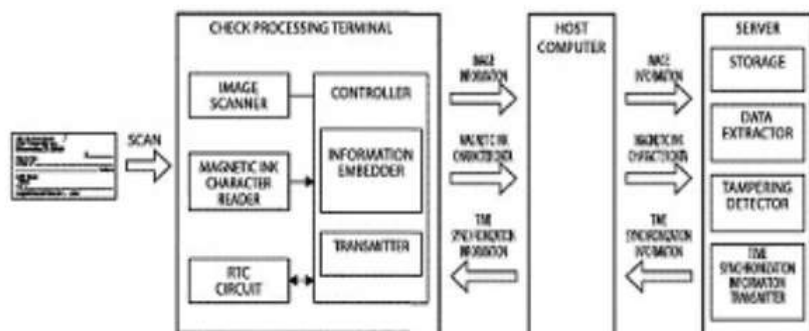


FIG. 1

No. of Pages : 23 No. of Claims : 9

(54) Title of the invention : STACKABLE DENTAL SURGICAL GUIDE ASSEMBLY

(51) International classification :A61C0008000000, A61C0001080000, B23B0047280000, A61C0013000000, A61C0019040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Anshul Dineshchandra Mel

Address of Applicant :4/96, Malifalia, Haripura, Pirchhadi Road, Surat – 395003, Gujarat, India Surat -----

2)Deepal Dineshbhai Mehta

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Anshul Dineshchandra Mel

Address of Applicant :4/96, Malifalia, Haripura, Pirchhadi Road, Surat – 395003, Gujarat, India Surat -----

2)Deepal Dineshbhai Mehta

Address of Applicant :43, Makanji Park Society, Behind Anath Ashram, Katargam, Surat – 395004, Gujarat, India Surat -----

(57) Abstract :

The dental surgical guide assembly is comprises of a base support plate (1), a reference plate (12), a prosthetic teeth assembly (34) and a drilling jig (8). The base support plate (1) is configured for fitting on a jaw bone (36). Assembly of the base support plate (1) and the reference plate (12) is used for fixing of the base support plate (1) on the jaw bone (36) for dentulous and partial dentulous condition. The inner surface of the reference plate (12) is configured for the purpose. The base support plate (1) and the prosthetic teeth assembly (34) is used for fixing of the base support plate (1) on the jaw bone (36) in case of edentulous condition. The drilling jig (8) is detachably attachable to the base support plate (1). This surgical guide assembly aid in accurate positioning of dental implants and reduction in the number of sittings.



FIG. 1

No. of Pages : 36 No. of Claims : 8

(54) Title of the invention : CONSTRUCTION OF CURCUMIN-BAEL FRUIT GUM ELECTROSPUN NANOFIBERS

(51) International classification :D01D0005000000, A61K0047340000, D04H0001728000, C08G0018670000, A61L0027180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GAIKWAD DINANATH TUKARAM

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF PHARMACY, NEAR CHITRANAGARI, KANDALGAON ROAD, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)GAIKWAD DINANATH TUKARAM

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF PHARMACY, NEAR CHITRANAGARI, KANDALGAON ROAD, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. -----

2)SHINDE KAJAL SUNIL

Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF PHARMACY, NEAR CHITRANAGARI, KANDALGAON ROAD, KOLHAPUR, MAHARASHTRA, INDIA - 416 013. -----

3)SHARMA KIRAN KUMAR K

Address of Applicant :SHIVAJI UNIVERSITY,KOLHAPUR,MAHARASHTRA,INDIA-416004 - -----

(57) Abstract :

The impact of nanotechnology on health science is far-reaching. The potential role of nanofibers in biomedical applications such as drug release and tissue engineering has recently been explored. Electrospinning studies have provided in-depth -insights into the fabrication of lightweight, ultrafine, porous and biofunctional nanofibers for applications in wound dressings, drug release, tissue engineering, and more. Curcumin [1,7 bis (4 hydroxy 3methoxyphenyl) 1,6 heptadiene 3, 5 Dione] has been identified as an antioxidant, antibacterial, anti-inflammatory, and pharmaceutical property as an inhibitor of tumorigenesis and metastasis. It is a phenolic compound. Due to its hydrophobicity and its consequent low bioavailability, new transport carriers using electrospinning technology have been studied. Bael fruit gum (BFG) has been reported to have excellent protection against a wide range of pathogens, including antibacterial, antitumor, antiviral, anti-inflammatory and antifungal. It possesses better aqueous solubility and water retaining capacities due to presence of high D-galactosecontent and galactouronic acid. Considering above facts study attempted to construct the curcumin-bael fruit gum electrospun nanofibers as a suitable carrier for drug delivery.



Figure 1: Bael fruit gum

(54) Title of the invention : AUTOMATED WALNUT PROCESSING DEVICE

(51) International classification :A23N0005080000, A61K0036520000, A47J0043260000, B09B0005000000, C10J0003300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Heli A. Shah

Address of Applicant :Professor and Head of Department, Department of Mechatronics, Robotics and Automation Engineering, Parul Institute of Technology, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr. Geetika M. Patel

Address of Applicant :Medical Director, Parul Institute of Medical Science and Research, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

An automated walnut processing device, comprises of a housing 1 mounted with a display panel 2 accessed by user for providing walnut's form, a cylindrical chamber 3 crafted inside housing 1 with multiple nozzles 6 for dispensing water to soak walnuts, a motorized blade assembled inside chamber 3 for churning walnuts, an AI based imaging unit 4 installed within housing 1 for confirming complete removal of husk, a first outlet 9 erected within chamber 3 for transferring walnut, a hydraulic piston 10 assembled within housing 1 for breaking walnut's outer shell, a sorter conveyor 14 assembled in continuation of container 8 for separating edible part from outer shell, the outer shell gets collected into storage unit 15, the edible walnut gets accumulated inside receptacle and a screw compressor 16 assembled in proximity to sorter conveyor 14 for crushing edible walnut and extract oil inside canister 17 attached beneath compressor 16.

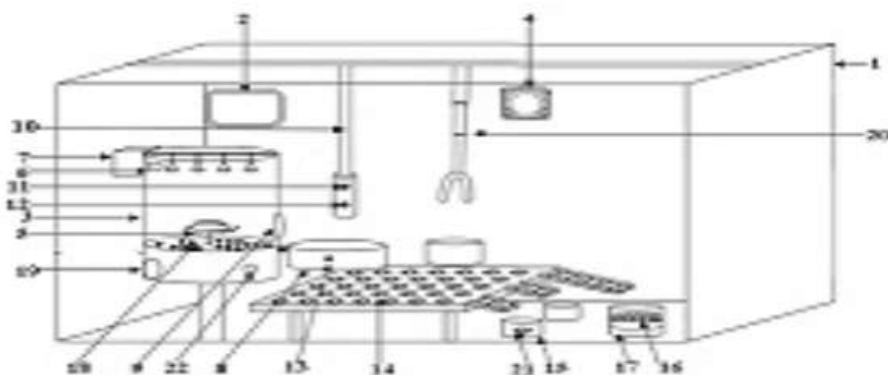


Figure 1

No. of Pages : 19 No. of Claims : 9

(54) Title of the invention : DEVICE FOR CURING POSTURAL DEFORMITIES

(51) International classification :G06K0009000000, H04N0001000000, A63B0023000000, A61B0005103000, A61H0001020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Vijay J Upadhye

Address of Applicant :Deputy Director, Center of Research for Development & Associate Professor, Parul Institute of Applied Sciences, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr. Geetika M. Patel

Address of Applicant :Medical Director, Parul Institute of Medical Science and Research, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

A device for curing postural deformities, comprising a base 1 having a cavity 2 which is adapted to store sand with a user having flat feet needs to stand on sand, an artificial intelligence enabled image capturing module 3 for capturing multiple images of imprints to decode type of arches exactly formed on sand and further examines to decode flexibility or rigidity nature of flat feet, a platform 4 to aid user to place feet at equidistance from each other and directs a speaker 5 to generate voice commands regarding stretching/flexing of toes of user by pressing feet against the base 1 which in turn cures flexible type of flat feet, and a ball 6 to pop-out of base in a manner for being placed on sand and speaker 5 is again re-activated to direct user for standing on ball 6 to cure rigid type of flat feet.

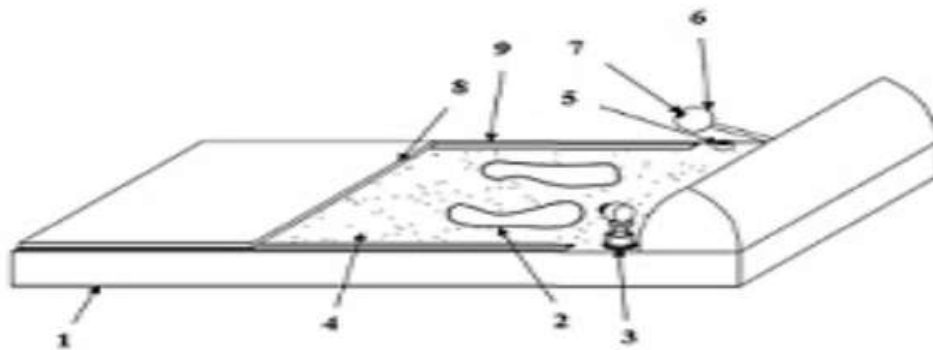


Figure 1

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : SLEEP POSTURE MAINTENANCE DEVICE

(51) International classification :A61B0005110000, B25J0005000000, A61B0005020000, B25J0009000000, E02F0009260000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Vijay J Upadhye

Address of Applicant :Deputy Director, Center of Research for Development & Associate Professor, Parul Institute of Applied Sciences, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr. Geetika M. Patel

Address of Applicant :Medical Director, Parul Institute of Medical Science and Research, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

The present invention relates to a sleep posture maintenance device comprising, a platform 1 having a first and second portion 11, 12 adapted to be positioned over a bed, plurality of motorized omnidirectional wheels 2 for providing movement to the platform 1 over the bed, an imaging unit 3 for capturing and processing images of the user while sleeping sideways over the bed, a proximity sensor 4 for measuring distance between the upper arm and platform 1, a C-shaped clamping unit 5 for securing upper arm over the platform 1, an angle sensor 6 for detecting inclination angle of the upper arm, a flipping arrangement 7 for attaining an appropriate posture of the upper arm, a strain sensor 8 for detecting strain experienced over the upper arm during lifting and a massaging unit 9 attached with the platform 1 for massaging over the arm for reducing the strain.

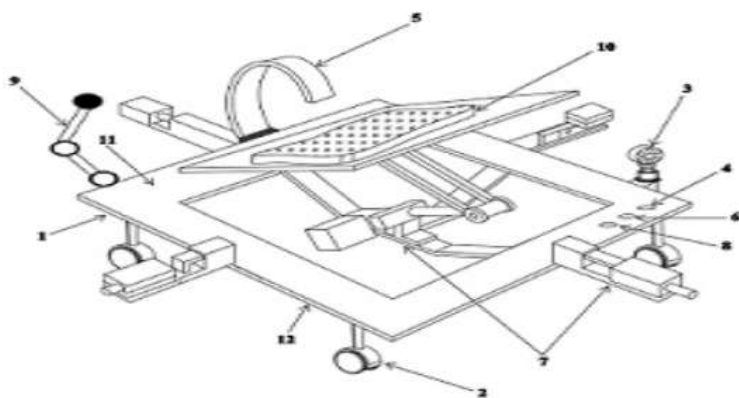


Figure 1

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : BOOK SORTING AND STUDYING ASSISTIVE DEVICE

(51) International classification :H04R0001020000, G06K0009340000, G06F0003160000, A61G0005100000, A47D0015000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Vipul Vekariya

Address of Applicant :Professor and Dean, Faculty of Engineering and Technology, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr. Devanshu Patel

Address of Applicant :President, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

A book sorting and studying assistive device, comprises of a circular frame 1 associated with the device having seat 2 in the centre for allowing user to seat 2, an artificial intelligence enabled image capturing module 3 installed on frame 1 that captures multiple images of the user, multiple compartments 4 assembled on frame 1 via motorized guiding rail 5 dedicated towards accommodating of books and translate compartment 4 in proximity to user, a microphone 6 integrated within seat 2 accessed by user for providing voice commands, a pair of telescopic clamps 7 positioned on guiding rail 5 for placing book in their designated compartment 4, a OCR sensor 8 interlinked with module 3 for decoding book's title, an LDR 9 positioned on frame 1 for detecting light intensity in surroundings of frame 1 and a lamp 10 mounted on frame 1 for providing sufficient light over book.

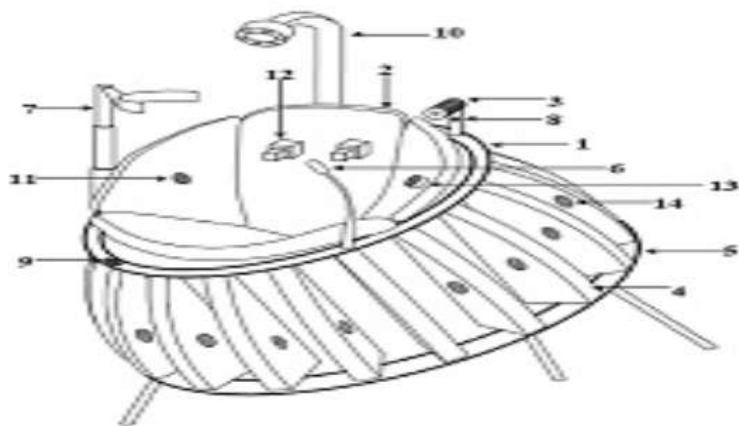


Figure 1

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : HANDHELD UNIFORM FOOD SLICING DEVICE

(51) International classification :B26D0007320000, B26D0005000000, B26D0007060000, B26D0007010000, B26D0001360000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Rutvij Joshi

Address of Applicant :Associate Professor and Head, Department of Electronics and Communication Engineering, Parul Institute of Engineering and Technology, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr. Devanshu Patel

Address of Applicant :President, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

A handheld uniform food slicing device, comprises of a frame assembled with a handle 1 to be carry by a user, primary and secondary telescopic plates 2, 3 are joined with handle via motorized hinge joint 4, an artificial intelligence enabled imaging module 5 synchronized with an ultrasonic sensor 6 installed over handle 1 detect geometrical characteristics of food item, a touch interactive panel 7 positioned over handle 1 allow user to enter input regarding size of slices to be cut, a cutting blade 8 assembled with secondary plate via telescopic bars 9 to cut slices, a pair of rollers 10 connected to primary telescopic plate 2 that locate at determined reference point of food to be cut, a tactile sensor 11 plugged to roller determine the food hardness and accordingly actuates a vibration unit 17 for providing optimum level of vibration to cut food item without human interference.

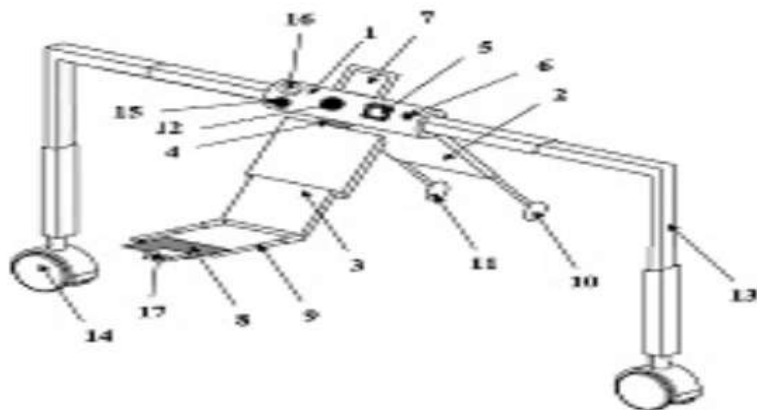


Figure 1

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : AGRICULTURAL PRODUCE COLLECTION DEVICE

(51) International classification :G01J0003280000, G01J0003020000, G01N0033020000, B65B0025040000, B65B0069000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Snehal V. Trivedi

Address of Applicant :Associate Professor and Head of the Department, Department of Mechanical Engineering, Parul Institute of Technology, Parul University, Post Limda, Waghodia, Gujarat 391760, India Vadodara -----

2)Dr. Devanshu Patel

Address of Applicant :President, Parul University, Post Limda, Waghodia, Gujarat 391760, India Vadodara -----

(57) Abstract :

An agricultural produce collection device comprises of a circular platform 1 arranged with an elastic strap 2 that is worn over waist portion, a motorized roller 3 is configured on platform 1 and connected with one end of strap 2 for wrapping/unwrapping strap 2, two telescopic rod 4 attached beneath platform 1 and configured with motorized wheel 5 to manoeuvre platform 1, an AI-based imaging module 6 mounted over platform 1 to capture multiple images of surroundings, a robotic gripper 7 assembled at platform's outer periphery by means of guiding rail 8 to enable movement of gripper 7 over platform 1 to grip and shake branches, a hyper spectral imaging sensor 9 integrated on platform 1 to evaluate freshness level of agricultural produced vegetables and fruits and a rotatable chamber 10 bifurcated into multiple compartments 11 connected underneath platform 1 via iris opening to separate agricultural produced vegetables.

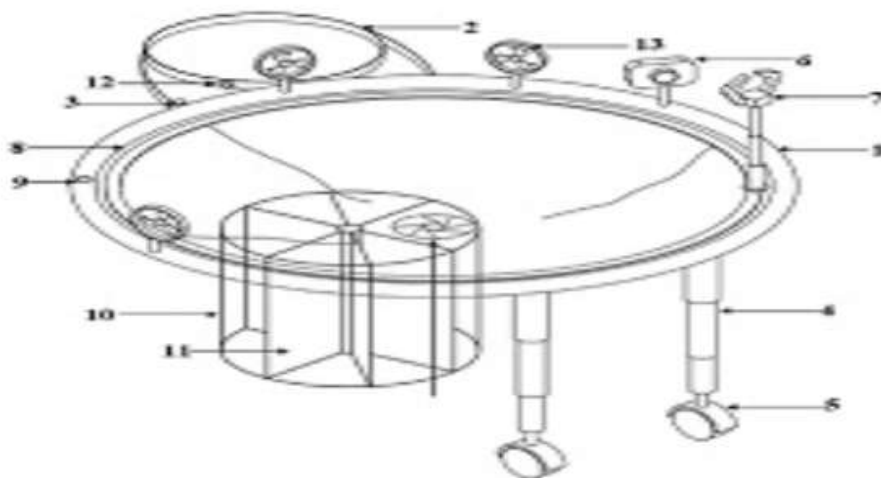


Figure 1

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : WOODEN FLOOR MAINTENANCE DEVICE

(51) International classification :A47L0011400000, B25J0005000000, G01D0021020000, F24F0011300000, E04F0015040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Ruchi Shrivastava

Address of Applicant :Principal, Parul Institute of Engineering and Technology-Diploma Studies, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr. Devanshu Patel

Address of Applicant :President, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

The present invention relates to a wooden floor maintenance device comprising, a housing 1 having a first and second portion 2, 3 positioned over a wooden floor layered with a carpet, plurality of omnidirectional wheels 4 for providing movement to the housing 1 over the floor, a computing unit installed with a user interface accessed by a user to control maneuvering of the housing 1, a sensing module for measuring temperature, humidity and moisture level in the surroundings, a detachable tripod structure 5 for positioning the structure 5 over the defective region, a screw dispensing arrangement 6, 7 for dispensing one of the screw within a cavity 9, a drilling unit 10 for drilling the dispensed screw over the region to repair the conditions, an ultrasonic sensor for detecting length of the screw penetrating within the floor and a slicing unit 11 for slicing-off extra portion of the penetrated screw.

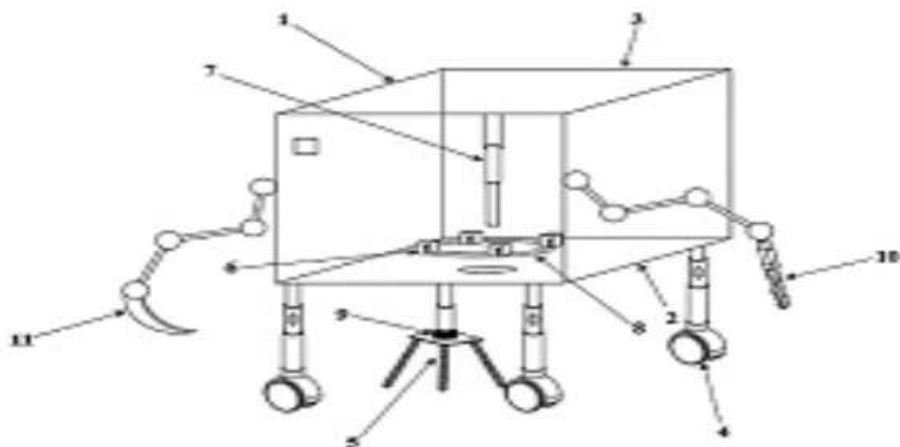


Figure 1

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : ADJUSTABLE FURNITURE

(51) International classification :G06F0003160000, G10L0015220000, G06Q0020200000, H04N0005247000, G08B0021180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Bhaveshkumar G. Mewada

Address of Applicant :Associate Professor and Principal, Parul Institute of Technology, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr. Geetika M. Patel

Address of Applicant :Medical Director, Parul Institute of Medical Science and Research, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

An adjustable furniture, comprising of a frame 1 having a platform 2 and multiple telescopic rods 3 adapted to extend/retract to alter height of platform 2, an voice recognition module 5 for enabling a user to provide voice commands, a chamber 7 configured with multiple compartments 8 each adapted to store different books and/or documents with a unique serial number, a computing unit installed with a user interface for enabling user to enter serial number of a particular shelf, a seismometer sensor 10 for measuring intensity of vibration experienced by platform 2 during an earthquake and actuates rods 3 for tilting platform to prevent falling of an heavy object, an artificial intelligence based imaging unit 11 for capturing and processing images of platform to detect an idle condition of book, and a biometric scanner 13 for enabling user to input biometric impression to detect authentication of user.

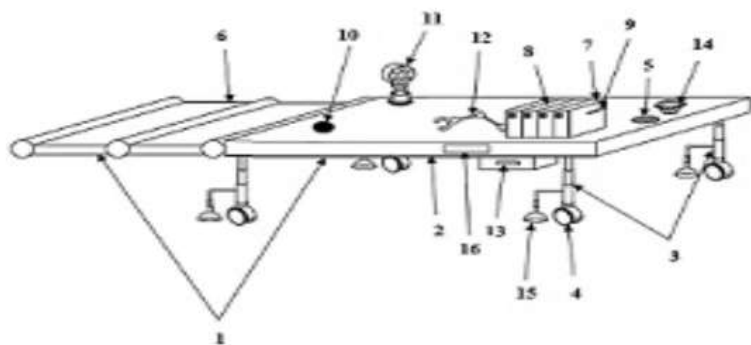


Figure 1

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : LEG EXERCISING DEVICE

(51) International classification :A63B0023040000, A63B0021000000, A61H0003000000, A43B0011000000, A61H0001020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Bhavana Gadhavi

Address of Applicant :Dean, Parul Institute of Physiotherapy, Parul University, Post Limda, Waghodia, Gujarat 391760, India Vadodara -----

2)Dr. Geetika M Patel

Address of Applicant :Medical Director, Parul Institute of Medical Science and Research, Parul University, Post Limda, Waghodia, Gujarat 391760, India Vadodara -----

(57) Abstract :

A leg exercising device comprises of a first and second portion 2, 3, an inlet 4 erected at first portion 2 for enabling user to enter within housing 1, a touch interactive display panel 5 positioned within second portion 3 of housing 1 for allowing user to enter their details, an artificial intelligence based imaging unit 6 mounted within housing 1 for capturing user's images, a telescopically powered T-shaped structure 7 configured with horizontal rod 8 to allow user to perform first-type of exercise, a pair of wearable body 9 configured on primary-platform mapped within housing 1 via pair of sliding arrangement 11 for accommodating user's foot, a C-shaped clamping unit 12 assembled with rope-pulley arrangement 13 installed on housing 1 for fastening user's heel portion and a motorized roller 14 having multiple pins 15 mapped on secondary-platform for allowing user to place their calf portion.

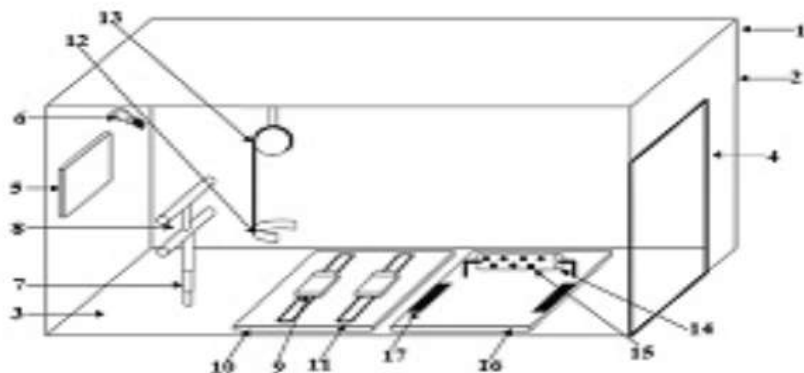


Figure 1

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : LAWN TENNIS TRAINING DEVICE

(51) International classification :A63B0069380000, A63B0069400000, G06N0003000000, A63B0047000000, A63B0022020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Parul University

Address of Applicant :Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Daxa Vekariya

Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

2)Dr Devanshu Patel

Address of Applicant :President, Parul University, Post Limda, Waghodia, Gujarat 391760, India. Vadodara -----

(57) Abstract :

A lawn tennis training device comprising an elongated body 1 utilized for enabling a user to train lawn tennis, multiple motorized omnidirectional wheels 2 via telescopically operated rods 3 for moving over a surface in various directions, an artificial intelligence enabled image capturing module 4 for capturing multiple images of user and decoding height of the user and accordingly actuates the rods 3, a touch interactive display panel 5 for selecting an expertise level, type of shot to be practiced, and time elapse between consecutive shots, wherein based on the selected type of shot, a ball storage chamber 6 filled with plurality of the tennis balls 7, a hydraulic pusher installed with the chamber 6 for dispensing one of the balls 7, a shaft 8 having a pair of rackets 9 for launching the ball towards the user to allowing the user to train lawn tennis in an appropriate manner.

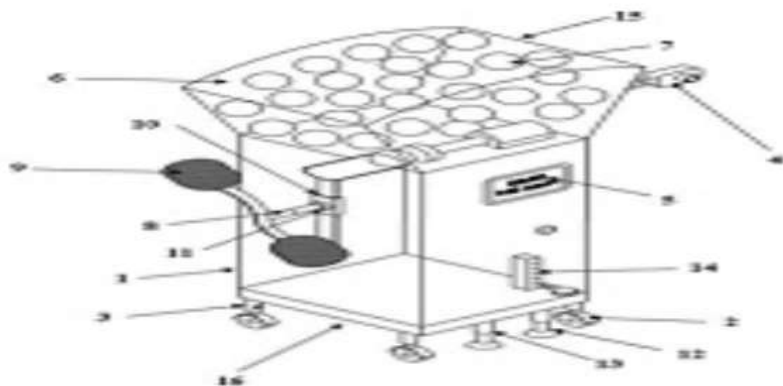


Figure 1

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202221030867 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : VRDRIVE : A DRIVING SIMULATION FOR RTO (REGIONAL TRANSPORT OFFICE)

(51) International classification	:G06F0003010000, G09B0019000000, G09B0009052000, G06Q0050260000, G09B0019140000	(71)Name of Applicant : 1)DR.VATSAL H.SHAH Address of Applicant :7, SHRINATH KRUPA, YAMUNA PARK SOCIETY, VALLABH VIDYANAGAR ROAD, ANAND, GUJARAT - 388001, INDIA. ----- 2)ABHISHEK HEMENDRA SHAH 3)JAY BHADRESHBHAI PATEL 4)GHANSHYAM SAVALIYA 5)ASEEM THAKKAR Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR.VATSAL H.SHAH Address of Applicant :7, SHRINATH KRUPA, YAMUNA PARK SOCIETY, VALLABH VIDYANAGAR ROAD, ANAND, GUJARAT - 388001, INDIA. ----- 2)ABHISHEK HEMENDRA SHAH Address of Applicant :B-104,R.K.HABITAT,B/H INOX MULTIPLEX,TULSIDHAM ROAD,BHARUCH,GUJARAT,INDIA-392001 ----- - 3)JAY BHADRESHBHAI PATEL Address of Applicant :C-15,RADHESHYAM SOCIETY,PARIJAT SCHOOL STREET,OPP.VICTORIYA WALL,KALIYABID,BHAVNAGAR,GUJARAT,INDIA-364002 ----- 4)GHANSHYAM SAVALIYA Address of Applicant :282,PANCHKOSHI,HALENDIA,GUJARAT,INDIA-360025 ----- ----- 5)ASEEM THAKKAR Address of Applicant :974/B,SHRIJI KRUPA,DAWN CHOWK,BHAVNAGAR,GUJARAT,INDIA-364001 ----- -- -----
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

VRDrive will simulate driving test in Virtual Reality for the applicant of driving license at RTO. By the use of VR headset and our associated hardware (like steering, accelerator, break) the applicant will be tested in an immersive computer-generated environment where his/her driving skills and judgement by tested and evaluated by various scenarios like city, roads, obstacles, sign- boards, signals. The major problems with the system is evaluating actual understanding of the applicant regarding traffic-rules and knowledge about existing protocols. VR system will evaluate actual skills and check the applicant in immersive environment.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202221030955 A

(43) Publication Date : 10/06/2022

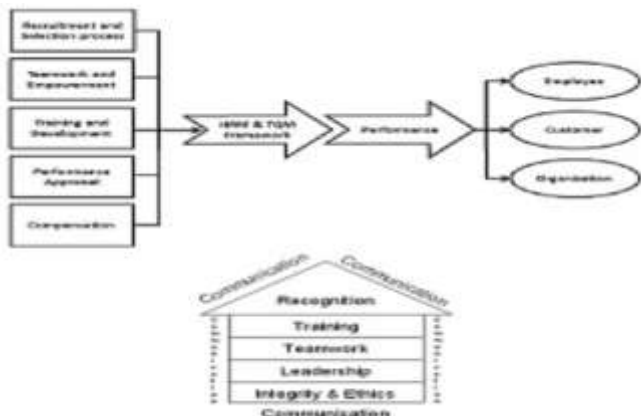
(54) Title of the invention : THE EFFECT OF HUMAN RESOURCE MANAGEMENT PRACTICES ON TOTAL QUALITY MANAGEMENT IMPLEMENTATION

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0030020000, G06Q0099000000,
G09B0019000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr.Sonali Saha
Address of Applicant :Professor and HOD-HR and HODInternational Affairs Dr.D.Y.Patil B-School, Sr. No. 87-88, Bengaluru-Mumbai Express Bypass, Tathawade, Pune, Maharashtra Pin: 411033 State: Maharashtra Country: India -----
2)Dr.Amol Gawande
3)Mr.Saurabh Bharti
4)Ms. Loveleena Mathur
5)Dr. Shweta Rani
6)Prof.Amar v chavan
7)Prof. Manoj Kumar Mishra
8)Dr. Dhanashri Dilip Khatawkar
9)Dr. Sandeep Janardhan Sonawane
10)Prof K Naraesh
11)Dr. Harikumar Pallathadka
12)Dr. K. Sivaperumal
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr.Sonali Saha
Address of Applicant :Professor and HOD-HR and HODInternational Affairs Dr.D.Y.Patil B-School, Sr. No. 87-88, Bengaluru-Mumbai Express Bypass, Tathawade, Pune, Maharashtra Pin: 411033 State: Maharashtra Country: India -----
2)Dr.Amol Gawande
Address of Applicant :Director Dr.D.Y.Patil B-School, Sr. No. 87-88, Bengaluru-Mumbai Express Bypass, Tathawade, Pune, Maharashtra Pin: 411033 State: Maharashtra Country: India -----
3)Mr.Saurabh Bharti
Address of Applicant :Assistant Professor UITHM Chandigarh University Gharuan Mohali Punjab Pin: 140413 State: Punjab Country: India -----
4)Ms. Loveleena Mathur
Address of Applicant :Assistant professor IIRM Group, IIRM Campus, Sec-11, Tagore Path, Agarwal Farm, Mansarovar, Jaipur Pin:302020 State: Rajasthan Country: India -----
5)Dr. Shweta Rani
Address of Applicant :Assistant Professor Dyal Singh College, University of Delhi, Lodhi Road, New Delhi Pin: 110003 State: Delhi Country: India -----
6)Prof.Amar v chavan
Address of Applicant :Assistant Professor Bharati Vidyapeeth (Deemed to be)University Institute of Hotel Management & Catering Technology , Pune Pin:411043 State: Maharashtra Country: India -----
7)Prof. Manoj Kumar Mishra
Address of Applicant :Professor Department of Economics, College of Business and Economics, Salale University Fitch, Ethiopia State: Oromia Country: Ethiopia -----
8)Dr. Dhanashri Dilip Khatawkar
Address of Applicant :Assistant professor K. B. P College Urun Islampur Pin:415409 State: Maharashtra Country: India -----
9)Dr. Sandeep Janardhan Sonawane
Address of Applicant :Associate Professor ATEs's TECHNICAL CAMPUS AKOLE Pin: 422601 State: Maharashtra Country: India -----
10)Prof K Naraesh
Address of Applicant :Assistant Professor B COM PA, Sri Ramakrishna College of Arts and Science, Avinashi Road Between Fun Mall & Lakshmi Mills, Nava India Rd, Peelamedu, Tamil Nadu Pin: 641006 State: Tamil Nadu Country: India -----
11)Dr. Harikumar Pallathadka
Address of Applicant :Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140 State: Manipur Country: India -----
12)Dr. K. Sivaperumal
Address of Applicant :Assistant Professor Vel Tech Ranga Sanku Arts College, Avadi, Chennai- 62. State: TamilNadu Country: India -----

(57) Abstract :

The effect of human resource management practices on total quality management implementation Abstract: The purpose of this study was to investigate the effect that implementing total quality management (TQM) would have on the efficiency of human resource management (HRM) practises in the banking industry. Depending on a person's demographic features, there are observable differences in how TQM and HRM are put into practise and how effective they are. At the headquarters of fifteen different commercial banks, (540) workers were given a questionnaire to fill out. A high level of implementation of TQM (customer focus, top management commitment, and continuous improvement) was demonstrated, whereas employee engagement resulted in a medium level. TQM stands for total quality management and refers to customer focus, top management commitment, and continuous improvement. In a similar vein, a high degree of efficacy was demonstrated across all aspects of HRM (planning, staffing, training & development, and performance appraisal), but a level of remuneration that was yielded that was medium in nature was achieved. TQM is implemented differently depending on the job title, although there are no substantial differences depending on gender, age, education level, or years of experience. There were no reported significant differences in the efficacy of HRM based on factors such as gender, age, education level, amount of experience, or job title. An important distinction can be seen between Islamic and commercial banks regarding the adoption of three TQM dimensions and two HRM dimensions, and this distinction work in the advantage of the banks. It became clear that the three dimensions of TQM—customer focus, continuous improvement, and employee engagement—had a significant and favourable influence on the efficiency of HRM operations. The level of commitment shown by top management was not shown to be a significant factor in explaining variances in HRM practises.



No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : IOT BASED GAME TESTING TOOL FOR PLAY AND EXPERIENCE TESTING

(51) International classification :H04L0029080000, A63F0013920000, A63F0013630000, H04L0012240000, G01N0015080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAGE UNIVERSITY

Address of Applicant :Kailod Kartal, Rau Bypass Road, Indore - 452020, Madhya Pradesh India Indore -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr. Sachin Patel

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh, India Indore -----

2)Dr. Abhay Kothari

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh, India Indore -----

3)Bharti Bhattad

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road, Indore-452020, Madhya Pradesh, India Indore -----

4)Abhishek Solanki

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh, India Indore -----

5)Ms. Sakshi Agrawal

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh, India Indore -----

(57) Abstract :

A System for Testing based on user/player feed backs and Internet of things boards in terms of hardware is disclosed. Game testing is the most important part in a game development process that analyses whether gaming application is ready for launch or need to give more testing on that Such services gives the development process a critical eye to focus on constant searches like inconsistencies, errors, coherence and completeness, etc. One of the advantage of the said system is that the said system uses wireless communication. The systems further uses cloud for computing for storage as a service and software as a service offering various Quality of services related to cloud. The system is light weight as it makes use of Internet of Things processing boards and thus require less wiring.

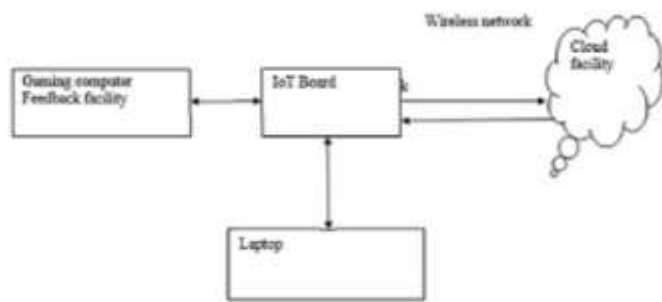


Figure - 1

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221031137 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN AND SYNTHESIZED OF NOVEL ANTI INFLAMMATORY AND ANTIOXIDANT

(51) International classification :A23L0033105000, A61K0031120000, A61K0031190000, A61K0031700800, A61K0031050000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr.Aayush Vaishnaw

Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Dr. C V Raman University, Kargi road Kota, Bilaspur, Chhattisgarh, India. Bilaspur -----

2)Mr.Arvind Kumar

3)Dr.Premchand Bajrang Shelke

4)Dr. Sajith. S

5)Mr.Roshan Sonwani

6)Dr.Jeetendra Sainkhediya

7)Dr. Devvret Verma

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr.Aayush Vaishnaw

Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Dr. C V Raman University, Kargi road Kota, Bilaspur, Chhattisgarh, India. Bilaspur -----

2)Mr.Arvind Kumar

Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Dr. C V Raman University, Kargi road Kota, Bilaspur, Chhattisgarh,India. Bilaspur -----

3)Dr.Premchand Bajrang Shelke

Address of Applicant :Assistant Professor, Department of Chemistry, Kirti M Doongursee College Dadar (W), Mumbai-28. Mumbai -----

4)Dr. Sajith. S

Address of Applicant :Associate Professor, BJM Government College, Chavara, Kollam. Kollam -----

5)Mr.Roshan Sonwani

Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Dr. C V Raman University, Kargi road Kota, Bilaspur, Chhattisgarh, India. Bilaspur -----

6)Dr.Jeetendra Sainkhediya

Address of Applicant :M.Phil, Ph.D., Department of Botany, Govt.PG College sendhwa dist. Barwani, Madhya Pradesh, India, Pin 451666, A.B. Road Sendhwa, Madhya Pradesh. Barwani -----

7)Dr. Devvret Verma

Address of Applicant :Department of Biotechnology, Graphic Era Deemed to be University, Dehradun, Uttarakhand, India, 248002. Dehradun -----

(57) Abstract :

Dietary supplement formulations with enriched 3-O-acetyl-11-keto- β -boswellic acid and enriched demethylated curcuminoids are described herein that have anti-inflammatory, antiulcerogenic, and antioxidative properties. In addition, novel compositions include enriched curcuminoids, enriched 3-O-acetyl-11-keto- β -boswellic acid, and enriched demethylated curcuminoids that work in concert to inhibit COX-2 and 5-LOX activity specifically, as well as optionally include glucosamine and resveratrol.

No. of Pages : 19 No. of Claims : 3

(54) Title of the invention : SYSTEM FOR IDENTIFICATION AND REPORTING OF VULNERABILITIES IN A SYSTEM OR APPLICATION

(51) International classification :H04L0029060000, H04L0029080000, G06F0021570000, G08G0001096900, C12Q0001689500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)SAGE UNIVERSITY**

Address of Applicant :Kailod Kartal, Rau Bypass Road, Indore - 452020, Madhya Pradesh India Indore -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Ati Jain**

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh India Indore -----

2)Ms. Sakshi Pandey

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh India Indore -----

3)Mr. Prateek Shukla

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh India Indore -----

4)Mr. Deepak Longwani

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh India Indore -----

5)Ms. Sakshi Agrawal

Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh India Indore -----

(57) Abstract :

Present invention relates to a system for identification and reporting for identification and reporting on vulnerabilities in a system or application. The invention further relates to a system for identification and reporting for identification and reporting on vulnerabilities in a system or application which is Operating System Independent. In this system we can enumerate File Transfer Protocol (FTP) and Secure Shell Protocol (SSH) port as well.

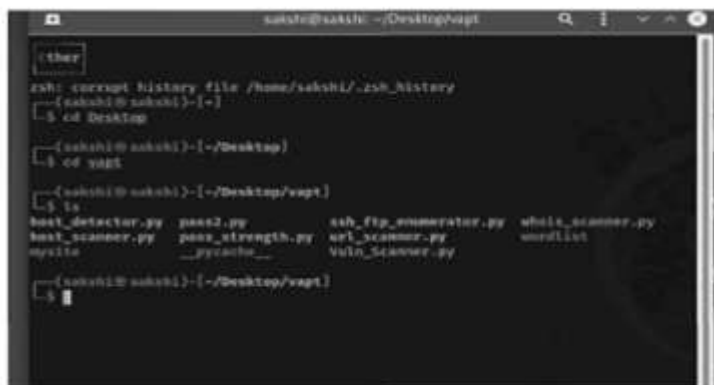


Figure - 1

No. of Pages : 15 No. of Claims : 6

(51) International classification :C07F0009400000, C07F0009656100, A01N0043920000, A01N0033060000, C07F0009380000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No : NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (62) Divisional to Application Number :202221011328
 Filed on :02/03/2022

(71)Name of Applicant :

1)DEVENDRA S. WAGARE

Address of Applicant :VIVEKANAND ARTS, SARDAR DALIPSINGH COMMERCE AND SCIENCE COLLEGE SAMARTH NAGAR AURANGABAD MAHARASHTRA INDIA 431001 -----

2)SAGAR E. SHIRSATH

3)SHAIKH MUJAHED SHAIKH HAMEED

4)ANIL SUBHANRAO GAIKWAD

5)BHARATNATNA P. GAIKWAD

6)JAIPRAKASH N. SANGSHETTI

7)DHANRAJ R. MANE

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DEVENDRA S. WAGARE

Address of Applicant :VIVEKANAND ARTS, SARDAR DALIPSINGH COMMERCE AND SCIENCE COLLEGE SAMARTH NAGAR AURANGABAD MAHARASHTRA INDIA 431001 -----

2)SAGAR E. SHIRSATH

Address of Applicant :VIVEKANAND ARTS, SARDAR DALIPSINGH COMMERCE AND SCIENCE COLLEGE SAMARTH NAGAR AURANGABAD MAHARASHTRA INDIA 431001 -----

3)SHAIKH MUJAHED SHAIKH HAMEED

Address of Applicant :VIVEKANAND ARTS, SARDAR DALIPSINGH COMMERCE AND SCIENCE COLLEGE SAMARTH NAGAR AURANGABAD MAHARASHTRA INDIA 431001 -----

4)ANIL SUBHANRAO GAIKWAD

Address of Applicant :VIVEKANAND ARTS, SARDAR DALIPSINGH COMMERCE AND SCIENCE COLLEGE SAMARTH NAGAR AURANGABAD MAHARASHTRA INDIA 431001 -----

5)BHARATNATNA P. GAIKWAD

Address of Applicant :VIVEKANAND ARTS, SARDAR DALIPSINGH COMMERCE AND SCIENCE COLLEGE SAMARTH NAGAR AURANGABAD MAHARASHTRA INDIA 431001 -----

6)JAIPRAKASH N. SANGSHETTI

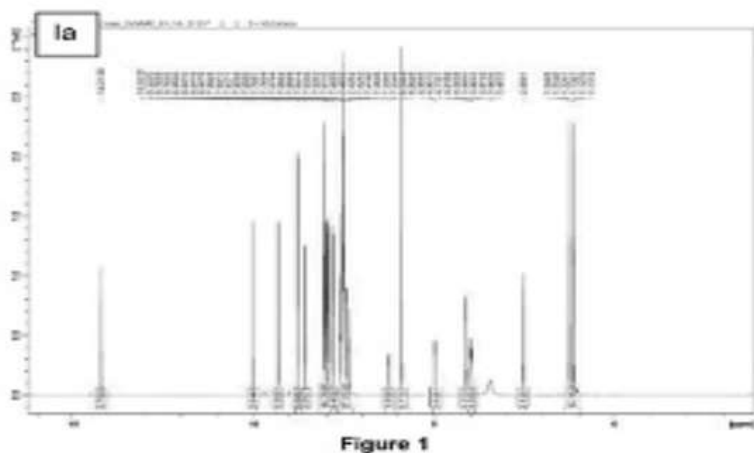
Address of Applicant :Y. B. CHAVAN COLLEGE OF PHARMACY DR. RAFIQ ZAKARIA CAMPUS, RAUZA BAGH, AURANGABAD MAHARASHTRA INDIA 431001 -----

7)DHANRAJ R. MANE

Address of Applicant :DIRECTOR, HIGHER EDUCATION, GOVERNMENT OF MAHARASHTRA Central Building PUNE MAHARASHTRA INDIA 411001 -----

(57) Abstract :

ABSTRACT The present invention provides a-amino phosphonate compounds. The a-amino phosphonate compounds is selected from the compound of formula I and formula II.



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022472 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : A DEVICE AND METHOD FOR PROVIDING A MUSICAL VIDEO AT MULTIPLE PITCHES WITH FORMANT PRESERVATION

(51) International classification :G10H0001360000, G10H0001000000, G11B0027031000, G09B0015000000, A61B0001267000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)mSangeet Technologies Private Limited

Address of Applicant :9-20/2, 102, Divya Landmark Apartments, MSR Main Road, Yeshawanthapura, Bangalore - 560022 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)HEGDE, Krishnamurthy

Address of Applicant :25, Padmalaya, 2nd Floor, 3rd Temple Street, 15th Cross Malleshwaram, Bangalore - 560003 -----

(57) Abstract :

ABSTRACT Disclosed a device (200) and a Method (500) for providing melodic vocal music with instrumental accompaniments, in a plurality of pitches embedded as multiple tracks in a video file. This has the advantage that a learner can play the music at or close to their natural pitch so that they can sing along with the featured vocal artiste as a means of practice or learning. The music track of the video is extracted (550) the vocal and instrumental parts are separated (560) to obtain two files – one containing the vocal part and the other containing the instrumental part. Then the pitch of the vocal part is shifted (565) to a different pitch using a formant preserving tool. The pitch of the instrumental part is also shifted (565) with or without formant preserving. The two files are combined (570) and embedded (575) into a different track of the video file. FIG. 2

No. of Pages : 27 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/06/2021

(21) Application No.202141025521 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD, DEVICE AND STIMULATION SYSTEM FOR HIGH THROUGHPUT CELLULAR PROGRAMMING

(51) International classification :A61N0001360000, C12M0001000000, A61B0005048800, A61N0001050000, A63H0030040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Science

Address of Applicant :CV Raman Road, Bengaluru, Karnataka 560012 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Hardik Jeetendra Pandya

Address of Applicant :Department of Electronic Systems Engineering, Indian Institute of Science, Bangalore -560012 -----

2)Bikramjit Basu

Address of Applicant :Material Research Centre, Indian Institute of Science, Bangalore -560012 -----

3)Sudarshan Jagannathan

Address of Applicant :211, Temple street, 9th main road, BEML III stage, Rajarajeswarinagar, Bangalore-560098 -----

--

4)Asish Kumar Panda

Address of Applicant :Material Research Centre, Indian Institute of Science, Bangalore-560012 -----

5)V S N Sitaramgupta V

Address of Applicant :Department of Electronic Systems Engineering, Indian Institute of Science, Bangalore-560012 -----

(57) Abstract :
As Attached.

No. of Pages : 37 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/06/2021

(21) Application No.202141026434 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A ROTOR FOR A ROTARY ELECTRICAL MACHINE

(51) International classification :H01L0029870000, H02K0001270000, H02K0011330000, G05D0001020000, H01L0029747000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)TVS MOTOR COMPANY LIMITED

Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India -----

2)INDIA NIPPON ELECTRICALS LTD

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SARMADH AMEER SHAFI KHAN

Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India -----

2)VAMSI KRISHNA BALLA

Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India -----

3)GIRI VENKATRAMANAN

Address of Applicant :INDIA NIPPON ELECTRICALS LTD, HOSUR-THALI ROAD, ULIVEERANAPALLI, HOSUR, TAMIL NADU 635 114, INDIA -----

4)ASHOK KUMAR KARUPPIAH

Address of Applicant :INDIA NIPPON ELECTRICALS LTD, HOSUR-THALI ROAD, ULIVEERANAPALLI, HOSUR, TAMIL NADU 635 114, INDIA -----

(57) Abstract :

ABSTRACT A Rotor for a Rotary Electrical Machine A rotor (20) for a rotary electric machine (10) having a plurality of magnets (100), each magnet has a first region (110) with a first polarity, a second region (120) with the first polarity such that the first region and the second region are adjacent to each other, a third region (130) with a second polarity such that the third region and the second region are connected by a fifth region (150) with the second polarity. Further the magnet has a fourth region (140) with the second polarity such that the fourth region is adjacent to the third region and the fourth region is connected to the first region by a sixth region (160) with the first polarity, wherein area of the second region is lower than area of the first region and area of the fourth region is lower than area of the third region, thereby providing a skewed magnetic field strength. Reference Figure 6

No. of Pages : 28 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141026615 A

(19) INDIA

(22) Date of filing of Application :15/06/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SUPPORT STRUCTURE FOR A BATTERY PACK OF A VEHICLE

(51) International classification :H01M0002100000, B60K0001040000, G06F0001180000, B60R0016040000, B60L0050600000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)TVS MOTOR COMPANY LIMITED Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)VINOTH MURUGAN Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- 2)RAMAKRISHNAN KUPPUSAMY Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- 3)PATTABIRAMAN VENUGOPALAN Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- 4)EZHILARASAN SUBRAMANIAN Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- 5)CHETHAN GANGAIAH Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- 6)VENKATESAN PALANISAMY Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- -----

(57) Abstract :

ABSTRACT Support Structure for a Battery Pack of a Vehicle Present invention provides support structure (100) for battery pack (110) of vehicle (200). Support structure (100) includes guiderail member (104) mounted on chassis member (204) and tray member (108). Tray member (108) is slidably mounted onto guiderail member (104) and adapted to receive battery pack (110). Tray member (108) is adapted to be operable between closed position (112) and open position (114) along guiderail member (104). In closed position (112) tray member (108) is in-flush configuration with chassis member (204) inhibiting access to battery pack (110) and in open position (114) tray member (108) protrudes from chassis member (204) for enabling access to battery pack (110). Such a construction enables a user to conveniently operate the support structure (100) by bare hands, i.e. without the need for special tools, while mitigating cumbersome dismantling process required for accessing the battery pack (110). Reference Figure 2

No. of Pages : 44 No. of Claims : 16

(54) Title of the invention : DEVELOPMENT OF A FIELD-EFFECT DEVICE USING CONDUCTING POLYMERS SUCH AS POLY(3,4-ETHYLENEDIOXYTHIOPHENE) POLYSTYRENE SULFONATE (PEDOT:PSS) LAYERS MADE USING MICROBUBBLE LITHOGRAPHY

(51) International classification :H01L0051000000, H01L0051050000, H01L0051420000, G02B0006420000, H01L0051440000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras) Address of Applicant :The Dean Industrial Consultancy & Sponsored Research [IC&SR] Indian Institute of Technology Madras, Sardar Patel Road, IIT P.O, Chennai Tamil Nadu India 600 036 ----- 2)Indian Institute of Science Education and Research (IISER) Kolkata Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Basudev Roy Address of Applicant :Department of Physics, Indian Institute of Technology Madras Chennai Tamil Nadu India 600036 ----- 2)Soumya Dutta Address of Applicant :CSD- 316, Electrical Engineering department, Indian Institute of Technology Madras Chennai Tamil Nadu India 600036 ----- 3)Ayan Banerjee Address of Applicant :Departmental of Physical Sciences, Indian Institute of Science Education and Research Kolkata, Mohanpur West Bengal India 741246 ----- 4)Rahul Vaippully Address of Applicant :Department of Physics, Indian Institute of Technology Madras IIT Madras Chennai Tamil Nadu India 600036 ----- 5)Mithun Chennamkulam Ajith Address of Applicant :Chennamkulam House Vazhoor P.O. Kottayam Kerala India 686504 ----- 6)Anand Dev Ranjan Address of Applicant :Departmental of Physical Sciences, Indian Institute of Science Education and Research Kolkata, Mohanpur West Bengal India 741246 -----

(57) Abstract :

ABSTRACT FIELD EFFECT TRANSISTORS AND METHOD OF DEVELOPMENT THEREOF The present invention relates to fabrication of an FET (300). A layer of aqueous solution (102) of PEDOT: PSS is positioned on a transparent substrate (104, 206, 304). Two conductive patches (108, 110) are placed over portions of the transparent substrate (104, 206, 304). A LASER (112) beam is focussed on the aqueous solution (102) present in contact of edges of the two conductive patches (108, 110), for deposition of a solid form of the aqueous solution (102) on the transparent substrate (104, 206, 304), for development of conductive tracks (204, 208, 306, 308). A layer of semiconductor material (302) is deposited over the transparent substrate (104, 206, 304) and a layer of insulating material (314) is deposited over the layer of semiconductor material (302). A conductive patch (316) is positioned over a portion of the insulating material (314) to serve as a gate electrode, thereby forming the FET (300). (To be published with Fig. 3)

No. of Pages : 18 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141029012 A

(19) INDIA

(22) Date of filing of Application :29/06/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SPOT-WELDING PROCESS FOR MANUFACTURING SIDE WALL STRUCTURE OF RAIL BOGIE

(51) International classification	:B61F0005520000, B23K0011110000, B61D0003180000, B62D0025020000, B60R0021231000	(71)Name of Applicant : 1)BEML Limited Address of Applicant :BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560 027, Karnataka, India ----- ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)G, Murali Mohan Address of Applicant :BEML Limited, BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560027, Karnataka, India -----
Filing Date	:NA	2)P, Keshava Murthy Address of Applicant :BEML Limited, BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560027, Karnataka, India -----
(87) International Publication No	: NA	3)R, Nanda Nandan Address of Applicant :BEML Limited, BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560027, Karnataka, India -----
(61) Patent of Addition to Application Number	:NA	4)RAVINDRANATH, Rathish Address of Applicant :BEML Limited, BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560027, Karnataka, India -----
Filing Date	:NA	5)E, Narayana Swamy Address of Applicant :BEML Limited, BEML Soudha, 23/1, 4th Main, Sampangirama Nagar, Bengaluru - 560027, Karnataka, India -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A spot-welding process for manufacturing a side wall structure of rail vehicle and specially a metro vehicle is described. The said process comprises steps of: mounting the sub-assemblies (302, 304, 306) on the jig (400) and welded together to form a side block frame (202), designing a welding stand and providing pre-camber to the welding stand for mounting of the side block frame (202), mounting the side block frame and a seat bracket welding is performed, checking for required dimensions and flatness, mounting a copper bed on a jig for series spot-welding, mounting a side block panel (204) on the copper bed and then mounting the side block frame (202) wherein the side block frame (202) and the side block panel are welded together to form a side wall assembly (100) and finally checking for required dimensions and flatness for the side wall assembly (100).

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141029486 A

(19) INDIA

(22) Date of filing of Application :30/06/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : A Mounting Assembly for a Spare Wheel of a Vehicle

(51) International classification :B62D0043100000, B62D0043020000, B62D0043040000, B62D0043000000, B60R0011060000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)TVS MOTOR COMPANY LIMITED Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)VINOTH MURUGAN Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- 2)RAMAKRISHNAN KUPPUSAMY Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- ----- 3)DHINAGAR, SAMRAJ JABEZ Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India ----- -----

(57) Abstract :

ABSTRACT A Mounting Assembly for a Spare Wheel of a Vehicle Present invention relates to the mounting assembly (100) for spare wheel (114) of vehicle (10). The mounting assembly (100) includes first bracket (110) extending between the first end (110a) and the second end (110b), the first end (110a) is hingedly mounted on the cross member (104) and the second end (110b) is detachably attached to the cross member (104). The mounting assembly (100) further includes a second bracket (120) mounted on the first bracket (110). The second bracket (120) is configured to receive the spare wheel (114), whereby the spare wheel (114) is received between the cross member (104) and the first bracket (110). The mounting assembly reduces the spare wheel removing time and ease of replacement with minimal time. An operator can replace the wheel from the vehicle without using any tool. Reference Figure 4

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2021

(21) Application No.202141029552 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : CARGO VEHICLE

(51) International classification :B62D0033060000, B60P0001430000, B62D0021140000, B62D0063020000, B62D0033080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)TVS MOTOR COMPANY LIMITED

Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MUTHUSANKARALINGAM SANKARALINGAM TAMILKUMARAN

Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India -----

2)SRIKANTH KAANCHI MOHAN

Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India -----

3)MOSALI NAGARJUN REDDY

Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India -----

(57) Abstract :

ABSTRACT Cargo Vehicle The present invention discloses a cargo vehicle. The cargo vehicle (100) includes a driver compartment (24). The cargo vehicle (100) further includes a loading deck (110) extending rearwards in a vehicle front rear direction (F-R) between a first end (110a) contiguous to the driver compartment (24) and a second end (110b) terminating above a rear end (72a, 72b) of the cargo vehicle (100); and a storage space (90) formed behind the driver compartment (24) and below the first end (110a) of the loading deck (110). Reference Figure 2

No. of Pages : 27 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/07/2021

(21) Application No.202141031734 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Air Guiding Structure for a Vehicle

(51) International classification :B62D0025200000, H01M0010656300, B62D0065020000, B62D0029000000, H02K0009020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)TVS MOTOR COMPANY LIMITED

Address of Applicant :Chaitanya No.12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)VENKATASAMY GANESH

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

2)KESHAVAPRASAD KESHA DATT

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

3)ANUMALASETTY GURAVIAH

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

4)THARIQ AHMAD SULAIMAN

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

5)RAJAMANI RAVISANKAR

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

6)MANISH GARG

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

7)MANIKANDAN SABAPATHI

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

8)DEEPAK NAGARAJU

Address of Applicant :Chaitanya No 12 Khader Nawaz Khan Road, Nungambakkam Chennai Tamil Nadu 600 006 India -----

(57) Abstract :

ABSTRACT Air Guiding Structure for a Vehicle The present invention provides an air guiding structure (100) for a vehicle (200). The structure (100) includes one or more air channels (102) defined below a floorboard (204) of the vehicle (200). The one or more air channels (102) extend along a front-rear direction of the vehicle (200) and are adapted to route ambient air over a prime mover (210), for cooling the prime mover (210). The structure (100) provides space below the floorboard (204) for air flow over the prime mover (210), while also providing reinforcement to the floorboard (204). Reference Figure 3

No. of Pages : 40 No. of Claims : 14

(54) Title of the invention : A SHOE INSOLE TO HEAL DIABETIC FOOT ULCERS AND METHOD OF MANUFACTURE THEREOF

(51) International classification :A61B0005103000, A43B0003000000, A61K0009000000, A61K0009480000, A43B0007140000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)MAHATMA GANDHI INSTITUTE OF TECHNOLOGY Address of Applicant :Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)PATEL, Badari Narayana Address of Applicant :Department of Mechanical Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- 2)KOTTAREDDYGARI, Jaya Sankar Address of Applicant :Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- 3)PAMIDIGHANTAM, Venkata Ramana Address of Applicant :Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- 4)N. Sai Sri Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- 5)N. Sai Teja Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- 6)S. Varun Chandra Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- 7)P. Vennela Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. ----- 8)D. Swathi Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Ranga Reddy Dist., Hyderabad - 500075, Telangana, India. -----

(57) Abstract :

The present invention discloses a shoe insole (10) to heal Diabetic Foot Ulcers (DFUs) and method of manufacture thereof. The shoe insole (10) to heal Diabetic Foot Ulcers (DFU) comprising a first layer (1) of poly dimethyl siloxane, a second layer (2) of bamboo, and a third layer (3) of coconut coir. The first layer (1) comprises a selective laser machined areas that face with the ulcer area (U) and provide a passage channel (C) for supply of oxygen. The said second layer (2) is employed for increased supply oxygen to the ulcer area (U) through the passage channel (C) and the third layer (3) is used for providing structural support, stability, and firmness to the sole. The design of the shoe insole (10) is sustainable in nature and self-generating device that does not require any external power such as battery. Fig. 2

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/09/2021

(21) Application No.202141044110 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FARMER WITH STREAMLINED AGRICULTURE PROCESS

(51) International classification :H04L0029080000, G06Q0050020000, H04N0007180000, G06F0008710000, G06F0003048000 (86) International Application No Filing Date :PCT// :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number Filing Date :NA :NA (62) Divisional to Application Number Filing Date :NA :NA	(71)Name of Applicant : 1)Dr. Anand R Address of Applicant :School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Anand R Address of Applicant :School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru ----- 2)Dr. Senthil S Address of Applicant :Professor and Director, School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru ----- 3)Mr. Lokesh C K Address of Applicant :School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru- 560064 ----- 4)Mr. Pinaka Pani R Address of Applicant :School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru- 560064 ----- 5)Dr. Rajeev Ranjan Address of Applicant :School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru- 560064 ----- 6)Dr. Hemanth K S Address of Applicant :Associate Professor, School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru- 560064 ----- - 7)Ms. Bhagya M Patil Address of Applicant :Assistant Professor, School of Computer Science and Applications, 3rd Floor, Swami Vivekananda Block, REVA University , Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru- 560064 ----- - 8)Dr. Vishwanath Burkpalli Address of Applicant :Professor, Department of ISE, PDA Engineering College Kalaburgi - 585103 ----- 9)Dr. GNK Suresh Babu Address of Applicant :7 Shaw Wallace Colony, B2, Monisha Srinidhi, Chitlapakkam Chennai ----- 10)Dr. Niharika Anand Address of Applicant :Assistant Professor, Department of I.T. Indian Institute of Information Technology Lucknow Chak Ganjaria, C. G. City Lucknow -- -----

(57) Abstract :

The present invention provides an app based FARMER WITH STREAMLINED AGRICULTURE PROCESS. The FARMER WITH STREAMLINED AGRICULTURE PROCESS system (1) comprises of an application software for user interface device (5) in which the user details of farmers (3) are uploaded for farming assistance by a user (2). The interface device (5) is connected to server (31). Said server (31) is connected with plurality of cloud storage (21, 22, 23).

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING HIGH TEMPERATURE REGION PIXELS ON A MAMMOGRAPHY IMAGE

(51) International classification :A61B0006000000, A61B0006040000, G06T0007000000, A61B0008080000, G16H0030400000 (86) International Application No :PCT// / Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)NIRAMAI HEALTH ANALYTIX PVT. LTD Address of Applicant :Flat A7-506, Elita Promenade, JP Nagar, 7th Phase, Bangalore 560078, Karnataka, India. ----- - ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)GEETHA MANJUNATH Address of Applicant :Flat A7-506,Elita Promenade, Bangalore 560078,Karnataka,India. ----- 2)SIVA TEJA KAKILETI Address of Applicant :D. No 1-45, Sundar Nagar Street,Annaipeta, Draksharamam RC Puram Mandal East, Godavari Dist, Kakinada 533262, Andra Pradesh, India. ----- ----- 3)SUDHAKAR SAMPANGI Address of Applicant :Door No: 506, Old Tile Factory Compound near Railway Station, Kolar – 563101, Karnataka, India. ----- ----- 4)MINERVA PANDA Address of Applicant :Flat No. A/603, The Prestige, Bhubaneswar – 751002, Odisha, India. -----

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR DETERMINING HIGH TEMPERATURE REGION PIXELS ON A MAMMOGRAPHY IMAGE A system (104) for annotating mammography images of a subject (100) using thermal images and mammography images of the subject using thermal and mammography images of the subject (100) by (i) identifying a first breast region in 5 the thermal image and a second breast region in the mammography image, (ii) identifying a block of pixels (Pt) with a high temperature region associated with a breast lesion within the first breast region, (iii) estimating a location (l) of the breast lesion corresponding to the identified block of pixels (Pt), (iv) determining a block of pixels (Pm) corresponding to the location (l) of the block of pixels (Pt) 10 within the second breast region and (v) generating a report with an annotated mammography image with markings of a determined block of pixels (Pm) on the mammography image of the subject (100) corresponding to the block of pixels (Pt) on the thermal image. FIG. 1

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141055807 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESS FOR POLYHERBAL FORMULATION USING VITIS VINIFERA, IXORA COCCINEA AND PIPER LONGUM FOR ANTICANCER POTENTIAL

(51) International classification :A61K0036740000, A61K0036670000, A61K0036570000, A61K0036790000, A61K0036870000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Deeparani Urolagin

Address of Applicant :#420,4th Floor,Sashank aikhya apartments Chikkabettahalli, Vidyaranyapura post, Bangalore-560097 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Deeparani Urolagin

Address of Applicant :#420,4th Floor,Sashank aikhya apartments Chikkabettahalli, Vidyaranyapura post, Bangalore-560097 -----

(57) Abstract :

The present invention generally relates to a process for polyherbal formulation using Vitis vinifera, Ixora coccinea and Piper longum for anticancer potential comprises mixing ethanolic extract of authenticated Ixora Coccinea flower, Vitis vinifera seeds, and Piper longum roots; adding Kaolin and methyl paraben and triturating to get the accurate consistency and thereafter passing through a mesh to get uniform poly herbal granules; and drying the mixture at 600c for 10 mins inside a hot air oven thereby filling the poly herbal granules manually to make 250mg and 500mg capsules.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141056309 A

(19) INDIA

(22) Date of filing of Application :04/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : Method, System and Apparatus for Charging an Electric Vehicle

(51) International classification :B60L0053300000, B60L0053120000, B60L0053680000, H02M0001420000, B60L0053160000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)National Institute of Technology Karnataka

Address of Applicant :Srinivasnagar PO, Surathkal, Mangalore - 575025, Karnataka, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dharavath Kishan

Address of Applicant :2-59/2, Gaddigudem Thanda (Vi. & Po.), Mahabubabad-506101, Telangana, India. -----

2)Bonthapalle Dastagiri Reddy

Address of Applicant :1-127, Nelatur (Vi. &Po.), Duvvur, Kadapa-516175, Andhra Pradesh, India -----

(57) Abstract :

Title: METHOD, SYSTEM AND APPARATUS FOR CHARGING AN ELECTRIC VEHICLE ABSTRACT An electric vehicle charging system (211) comprising an AC input voltage source (202) providing a varying frequency of input current to an electric vehicle charging station (240), an AC-AC converter (209) with reduced number of switches in the electric vehicle charging station (240), an onboard AC-DC H-bridge converter (226) within the electric vehicle (242), and a system load comprising a battery (224) within the electric vehicle (242), wherein the AC-AC converter (209) and the AC-DC H-bridge converter (226) reduces overall number of power conversion stages while charging the battery (224) within the electric vehicle (242). In an embodiment, the number of switches in the AC-AC converter (209) are reduced from conventional eight switches to six switches in that four switches are operated at high frequency inputs while remaining two are operated at fundamental frequencies within the electric vehicle charging station (240).

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202142041007 A

(19) INDIA

(22) Date of filing of Application :09/09/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : APPARATUS AND METHOD FOR SOIL TESTING

(51) International classification :G01N0033240000, G01N0027447000, G01N0001280000, G01R0031280000, G01N0021640000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :202141028625
Filed on :25/06/2021

(71)Name of Applicant :

1)ARKASHINE INNOVATIONS PVT. LTD.

Address of Applicant :No. 9-12-226, 11th Cross, Bhavani Rice Mill Road, Vidyanagar Colony, Bidar -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KARBARI, Sudha Ramesh

Address of Applicant :No. 9-12-226, 11th Cross, Bhavani Rice Mill Road, Vidyanagar Colony, Bidar - 585403 -----

-

(57) Abstract :

ABSTRACT APPARATUS AND METHOD FOR SOIL TESTING Accordingly embodiments herein disclose an apparatus for soil testing, wherein the apparatus (10) comprising a testing module (12) for testing a soil sample solution to determine an amount of macronutrients present in the sample solution by means of fluorescence-based capillary electrophoresis. A testing chip (21) is removably positioned in the testing module (12) for holding the sample solution during test. . Furthermore, the apparatus (10) comprises a sample preparation module (11) for preparing the soil sample solution. A method for soil testing is also disclosed.

No. of Pages : 33 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241003208 A

(19) INDIA

(22) Date of filing of Application :20/01/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD FOR VALIDATING IDENTITY OF ONE OR MORE USERS

(51) International classification :H04L0029060000, G06F0021310000, G16H0010600000, H04W0012100000, G06F0021400000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)toCode Technologies Private Limited

Address of Applicant :No.17, Vembuliamman Koil Street, Sai Venkat - D Block, Gowrivakkam, Chennai - 600073, Tamil Nadu, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ramesh Kannan

Address of Applicant :No.17, Vembuliamman Koil Street, Sai Venkat - D Block, Gowrivakkam, Chennai - 600073, Tamil Nadu, India -----

2)Jenny Sahaya Prabhu

Address of Applicant :No. 71, Phase 1, Jones cassia, Karanai Main Road, Ottiyambakkam, Chennai - 600130, Tamil Nadu, India -----

(57) Abstract :

SYSTEM AND METHOD FOR VALIDATING IDENTITY OF ONE OR MORE USERS ABSTRACT A system and method for validating identity of one or more users is disclosed. The method (400) includes receiving a request from one or more user devices (102) to access one or more services and determining one or more anomalies in one or more identification documents. Further, the method (400) includes generating a PIN at real time, receiving one or more inputs and validating each of the received one or more inputs. Furthermore, the method (400) includes determining a best input among the received one or more inputs and securely validating identity of the one or more users based on the received request, the one or more anomalies and the best input by using a trained identity validation based ML model. The method (400) includes providing access of the one or more services to the one or more user devices (102) upon securely validating the identity of the one or more users. FIG. 4

No. of Pages : 47 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241006087 A

(19) INDIA

(22) Date of filing of Application :04/02/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : RUTHENIUM CLUSTERS ON IRON OXIDE/MWCNTs CATALYSTS -METHOD OF PREPARATION AND THEIR HYDROGEN EVOLUTION REACTION APPLICATION

(51) International classification :C25B0011040000, C25B0001040000, B01J0035000000, B01J0023420000, B01J0037300000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)REVA University

Address of Applicant :Rukmini Educational Park, REVA University, Bangalore -----

2)Dr. Ranjit Thapa

3)Samadhan Kapse

4)Shivanna M

5)Shwetha K R

6)Dr. Nagaraju D H

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shwetha K R

Address of Applicant :School of Applied Sciences, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

2)Dr. Nagaraju D H

Address of Applicant :School of Applied Sciences, REVA University -----

3)Dr. Ranjit Thapa

Address of Applicant :SRM University, AP -----

4)Shivanna M

Address of Applicant :School of Applied Sciences, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

5)Samadhan Kapse

Address of Applicant :SRM University, AP -----

(57) Abstract :

In the present invention, developed a catalyst with a very low quantity of Ru clusters supported on inexpensive iron oxide (Fe₃O₄) and Ru- clusters on iron oxide/MWCNTs by simple electrochemical deposition in a neutral aqueous medium. The supported catalyst exhibits good hydrogen evolution reaction (HER) activity in an acidic medium. The mass activity of these catalysts on metal oxides is exceptionally high for HER. Catalyst displays exceptional stability and found to be no change in the HER activity even after 1000 cycles. The density functional theory (DFT) calculations were performed to investigate the role of Ru-clusters and underneath MWCNTs to enhance the catalytic performance of Fe₃O₄. The octahedral site of Ru-clusters on Fe₃O₄ with low overpotential makes it good HER catalyst. Ru on Fe₃O₄/MWCNTs is more efficient towards HER due to availability of both octahedral as well as tetrahedral sites with less overpotential.

No. of Pages : 28 No. of Claims : 8

(54) Title of the invention : 360 Degree social distancing and monitoring robot using IOT

(51) International classification :B25J0009160000, G06K0009000000, G06Q0050000000, B25J0019020000, B62D0057024000

(86) International Application No :PCT// / Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA Filing Date :NA

(62) Divisional to Application Number :NA Filing Date :NA

(71)Name of Applicant :**1)Ramya M**

Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

2)Manasi M A**3)REVA University****4)Shalini G****5)Nishika V****6)Dr. Chaya****Name of Applicant : NA****Address of Applicant : NA****(72)Name of Inventor :****1)Ramya M**

Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

2)Shalini G

Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

3)Nishika V

Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

4)Manasi M A

Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

5)Dr. Chaya

Address of Applicant :School of ECE, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka 560064 -----

(57) Abstract :

CORONA virus has affected millions of people worldwide.in this period maintaining social distancing norms between humans has become an indispensable precaution ,to slow down the transmission of SARS COVID-19 ,I present a novel method to automatically detect pairs of humans in a queue who are not adhering to the social distance constraint i.e about 6 feet of space between them .Currently there is no option to place one person in each row 24/7 to monitor social distancing violations, in order to monitor the distance between two people ,we are presenting an IOT based social distancing and monitoring robot for queues and in addition to this ,the robot consists of 4-wheel design system used to drive the robotic vehicle. This robot uses IR sensing to travel along with the queue in order to detect violations by humans .It makes use of line following principle to constantly move along the queue and monitors social distancing violations and while the robot is monitoring the queue ,we have included features such that it also monitors whether people are wearing face mask ,furthermore it also monitors the temperature of each and every individual in the queue and also captures images of people who are not adhering to social distance constraints and it sends the captured images along with covid and vaccination history of the people who do not maintain social distance between them and alerts the head office/higher authorities with a camera picture using WiFi over IOT.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241010714 A

(19) INDIA

(22) Date of filing of Application :28/02/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ELECTRONIC FINGER RING FOR MONITORING HEALTH AND FITNESS IN REAL TIME

(51) International classification :A61B0005000000, A44C0009000000, A61B0005020500, A61B0005110000, G09B0019000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Ultrahuman Healthcare Pvt Ltd

Address of Applicant :1st Floor, 45/3, Gopala Krishna Complex, Residency Road, Bengaluru, Karnataka 56002, India ---

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shankar, Apoorv

Address of Applicant :625, 1st Main, HSR Layout, Bangalore-560102, India -----

2)Namdeo, Yogansh

Address of Applicant :L-312, Godrej E-City, Doddathogur Rd., Konappana Agrahara, Electronic City, Bengaluru, Karnataka 560100, India -----

3)Jayan, Anoop

Address of Applicant :#48, Sri Ranga, 1st main, 3rd Cross, Ganapathinagar, Peenya 3rd Phase, Bangalore-560058, India -----

(57) Abstract :

ABSTRACT ELECTRONIC FINGER RING FOR MONITORING HEALTH AND FITNESS IN REAL TIME The proposed invention relates to an electronic finger ring (100). The electronic finger ring (100) comprises an outer layer (202), a middle layer (204), and an inner layer (206). The outer layer (202) is made of a rigid and antirust material or coating, such as of titanium. The middle layer (204) is a flexible Printed Circuit Board (PCB) comprising one or more sensors (302, 304, 306) connected with a microcontroller (308) and a battery (312). The flexible PCB is encapsulated in a transparent resin layer i.e. the inner layer (206) or sandwiched between the inner layer (206) and the outer layer (202). The one or more sensors (302, 304, 306) capture values of one or more fitness and health parameters of a user for tracking his lifestyle, activities, and habits. (Fig. 1)

No. of Pages : 23 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2022

(21) Application No.202241015416 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : An ML based SMART ATM Card for Integrated Banking Transactions with Biometric Features

(51) International classification	:G06Q0020400000, G06Q0020100000, G07F0019000000, G06Q0020340000, G07F0007100000	(71)Name of Applicant : 1)REVA University Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore Karnataka INDIA 560064 -- ----- 2)Dr M.Thurai Pandian 3)Mr. M. Ravi Prasad Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// /	(72)Name of Inventor : 1)Mr. M. Ravi Prasad Address of Applicant :School of Computing and Information Technology, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore Karnataka INDIA 560064 -- ----- 2)Dr M.Thurai Pandian Address of Applicant :School of Computing and Information Technology, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore Karnataka INDIA 560064 -- -----
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In current ATM transaction system, Customer will perform ATM transactions with the Cards that are issued by the respective Banks. But there is difficulty for Customer in remembering of PINs for multiple Cards. Also, security mechanism for the transactions is based on PIN number only. So, there is a chance for tampering or trace the PIN. For these issues we are proposing the new algorithms to design a new SMART card, to validate biometric features of Customer and to integrate the Bank Accounts of the Customer is SMARTCARD_DESIGN, CUSTOMER_BIOMETRICS_VALIDATE and ACCOUNTS_INTEGRATION using basic Machine Learning algorithms like SVM, GMM and ANN. Here, Customer can use of only one card i.e SMART card to perform the transactions for any Bank Account which they have. With the above proposed algorithms there are several advantages for Customers are increase in Security, no need to carry all Cards, no Ambiguity and for Bank reduce in Cost, reduce in Wastage and Regulatory mechanism to monitor the transactions

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241018284 A

(19) INDIA

(22) Date of filing of Application :29/03/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD TO DETECT PRESENCE OF SKIN ABNORMALITIES

(51) International classification :A61B0005000000, G06N0020000000, G16H0030400000, H04N0005330000, G06T0007000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NIRAMAI HEALTH ANALYTIX PVT. LTD

Address of Applicant :Flat A7-506, Elita Promenade, JP Nagar, 7th Phase, Bangalore, Karnataka-560078, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RONAK DEDHIYA

Address of Applicant :Flat No. Flat A7-506, Elita Promenade, Bangalore, Karnataka-560078, India -----

2)HIMANSHU J. MADHU

Address of Applicant :6/422, Old MHB colony, Gorai Road, Borivalli (West), Mumbai, Maharashtra, India-400091. -----

3)SIVA TEJA KAKILETI

Address of Applicant :D. No 1-45, Sundar Nagar Street, Annaipeta, Draksharamam RC Puram Mandal East, Godavari Dist., Kakinada, Andra Pradesh, India-533262. -----

4)Geetha Manjunath

Address of Applicant :Flat A7-506, Elita Promenade, Bangalore-560078, Karnataka, India. -----

5)KANCHANA GOPINATH

Address of Applicant :405, Chakradhari, 4A Cross, HRBR II Block, Kalyan Nagar, Bangalore, Karnataka, India-560043. . -----

(57) Abstract :

SYSTEM AND METHOD TO DETECT PRESENCE OF SKIN ABNORMALITIES A system (110) for automatically detecting the presence of abnormal heat patterns on skin of a human subject (100) using a non-invasive thermal imaging technique by performing (i) receiving thermal images of the human subject (100) that are captured or recorded by a thermal imaging device, (ii) selecting a region of interest in the thermal image and extracting a plurality of numeric features associated with the region of interest, (iii) generating a probability score that indicates a presence of the abnormal heat patterns on the skin of the human subject (100) by analyzing the plurality of numeric features using a first machine learning model, and (iv) generating an output report that contains the probability score and a label, derived using the probability score which indicates the presence of the abnormal heat patterns FIG. 1

No. of Pages : 36 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241018548 A

(19) INDIA

(22) Date of filing of Application :29/03/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : NANO BASED CARBON SPHERE ZINC FERTILIZER FOR RICE (Oryza sativa L.)

(51) International classification :C05G0003000000, B82Y0040000000, C05D0009020000, A61K0033300000, D01F0002100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. M. YUVARAJ

Address of Applicant :21/18 New Vaniyankula 6th Street
Tiruvannamalai-606601, Tamil Nadu, India -----

2)Dr. K. S. SUBRAMANIAN

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. M. YUVARAJ

Address of Applicant :21/18 New Vaniyankula 6th Street
Tiruvannamalai-606601, Tamil Nadu, India -----

2)Dr. K. S. SUBRAMANIAN

Address of Applicant :Director of Research, Tamil Nadu
Agricultural University, Coimbatore-641003 Tamil Nadu, India ---

(57) Abstract :

A nano based carbon sphere zinc fertilizer has been developed. The synthesis of the carbon sphere nanoparticle after formation of carbon sphere the zinc sulphate was loaded and characterized by utilizing Scanning Electron Microscopy, Surface Area and Porosity, X-ray diffraction analysis etc. The nano carbon sphere was loaded with zinc sulphate to the tune of 8 percentages and it was confirmed by Energy dispersive X-beam spectroscopy. The zinc loaded carbon sphere zinc fertilizer release nutrient for period of up to 600 hr in the case of conventional zinc sulphate zinc release halted after 216 hr in percolation reactor studies resulting in slow-release source of zinc fertilizer assuring higher yields.. The results show nano-forms of Zn such as carbon sphere release slowly that would have assisted in improved Zn use efficiencies by rice. Thus, it can be used as a nano-fertilizer for crops to improve productivity and reduce the ecological hazard.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241021408 A

(19) INDIA

(22) Date of filing of Application :08/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A BI-PHASIC METHOD FOR SORTING MICRODROPLETS

(51) International classification :B01L0003000000, G02B0021000000, B01F0013000000, G02B0021320000, G01N0021950000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shilps Sciences Private Limited

Address of Applicant :216/2, 1st Floor, F Block, 10th Cross, Sahakarnagar, Bangalore - 560092, Karnataka, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ashwin Lal

Address of Applicant :216/2, 1st Floor, F Block, 10th Cross, Sahakarnagar, Bangalore - 560092 -----

2)Abhay Sane

Address of Applicant :216/2, 1st Floor, F Block, 10th Cross, Sahakarnagar, Bangalore - 560092 -----

3)Ranjeet Singh

Address of Applicant :216/2, 1st Floor, F Block, 10th Cross, Sahakarnagar, Bangalore - 560092 -----

4)Ravi Roshan Keshari

Address of Applicant :216/2, 1st Floor, F Block, 10th Cross, Sahakarnagar, Bangalore - 560092 -----

5)Mohanasundaram S.M

Address of Applicant :216/2, 1st Floor, F Block, 10th Cross, Sahakarnagar, Bangalore - 560092 -----

(57) Abstract :

ABSTRACT A BI-PHASIC METHOD FOR SORTING MICRODROPLETS The invention provides a bi-phasic method for sorting micro droplets in a micro fluidic channel. The method includes, a preliminary phase of obtaining a line scan image of a section of a micro fluidic channel to identify at least two objects. The line scan image of the section of the micro fluidic channel is obtained when objects are either as a free object or are contained within a single micro droplet. Estimation of a plurality of parameters associated with the object and a secondary phase of sorting of the identified object down stream of the micro fluidic channel depending on a threshold based on the estimated parameters. FIG.1

No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241023852 A

(19) INDIA

(22) Date of filing of Application :22/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : Online auction and Notification Using ML and IoT- based System.

(51) International classification :G06Q0030080000, G06Q0010060000, G06N0005000000, F41H0003000000, G06N0007000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Ranjeeth Kumar M

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institue of Technology and Science, Warangal, Telangana, India. -----

2)Dr. Raghuram Bhukya

3)Sridhar Gujjeti

4)Rekha Gangula

5)Hanumanthu Bhukya

6)Sridhara Murthy Bejugama

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Ranjeeth Kumar M

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institue of Technology and Science, Warangal, Telangana, India. -----

2)Dr. Raghuram Bhukya

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institue of Technology and Science, Warangal, Telangana, India. -----

3)Sridhar Gujjeti

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institue of Technology and Science, Warangal, Telangana, India. -----

4)Rekha Gangula

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institue of Technology and Science, Warangal, Telangana, India. -----

5)Hanumanthu Bhukya

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institue of Technology and Science, Warangal, Telangana, India. -----

6)Sridhara Murthy Bejugama

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institue of Technology and Science, Warangal, Telangana, India. -----

(57) Abstract :

ABSTRACT Our Invention Online auction and Notification Using ML and IoT- based System is a allotment in barbers is a difficult issue for distributed computing. Be that as it may, the asset assignment issue is NP-hard and can't be addressed in polynomial time. The current investigations basically utilize surmised calculations, for example, PTAS or heuristic calculations to decide a doable arrangement; in any case, these calculations have the burdens of low computational effectiveness or low assign exactness. In this invention, we utilize the grouping of AI to display and examine the multi-layered cloud asset distribution issue and propose two asset portion expectation calculations in view of straight and strategic relapses. By learning a limited scale preparing set, the forecast model can ensure that the social government assistance, allotment exactness, and asset use in the possible arrangement are extremely near those of the ideal portion arrangement. The exploratory outcomes show that the proposed plot meaningfully affects asset designation in distributed computing.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2022

(21) Application No.202241023853 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Design of Differential Advanced Gear Box.

(51) International classification :F16H0048080000, F16H0057037000, B60K0017160000, H04J0003070000, G01M0013028000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vardhaman College of Engineering

Address of Applicant :Vardhaman College of Engineering
Hyderabad, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. B. Venkatesh

Address of Applicant :Dept. of Mechanical Engineering,
Vardhaman College of Engineering, Hyderabad, India. -----

2)C. Anil Kumar Reddy

Address of Applicant :JRF Student, Department of Mechanical
Engineering, Vardhaman College of Engineering, Hyderabad,
India. -----

3)Mrs. U. Pranavi

Address of Applicant :Assistant Professor, Dept.of Mechanical
Engineering, Vardhaman College of Engineering, Hyderabad,
India -----

4)Amogha C Patil

Address of Applicant :UG Student, Department of Mechanical
Engineering, Vardhaman College of Engineering, Hyderabad,
India -----

5)Khaja Aweas Mohiuddin

Address of Applicant :UG Student, Department of Mechanical
Engineering, Vardhaman College of Engineering, Hyderabad,
India. -----

6)Md. Rayan Azeez

Address of Applicant :UG Student, Department of Mechanical
Engineering, Vardhaman College of Engineering, Hyderabad,
India. -----

(57) Abstract :

ABSTRACT Our Invention Design of Differential Advanced Gear Box is a The differential cog wheels gathering and their lodging are broke down for the vibrational impact on a gadget wherein the existence of the pinion wheels is determined over a wide recurrence range utilizing the Ansys-14.0 stage and Solid works displaying. The stuff lodging is likewise impacted by vibration in the packaging that encompasses the gearbox here of study. Stuff's fundamental objective is to safeguard and give a protected stage to fruitful stuff transmission. It likewise safeguards moving parts and safeguards them from the components. The differential couples the propeller shaft to the pinion, which runs on the differential's ring stuff or crown gear, which likewise assists with lessening equipping grating. As well as broadening the stuff's life expectancy. Subsequently, the differential stuff lodging will be dependent upon vibration, and it will be important to quantify the reaction of the differential stuff lodging in different vibration circumstances, as well as to decide their regular frequencies. This might be the best technique in fostering a differential stuff lodging that is liberated from reverberation prompted weakness disappointments. The stuff lodging should be assembled involving an adequate procedure for dispensing vibration-causing causes, advancing logical techniques, and limiting the impacts of frequencies. This vibration investigation is done involving the ANSYS 14.0 program as a computational method, with SOLIDWORKS being utilized for approval and demonstrating of the differential gearbox. My Invention Design and Analysis of Differential Gearbox particularly makes a specialty of the mechanical format and investigation of gearbox as send the power. I had developed this compositions as my endeavor with a reason to get to know the advancements notwithstanding programming of hypotheses into practical work accomplished through ventures. My undertaking conveys the plan and material decision of the gearbox for remarkable kind of vehicles moreover. For better execution, improvement of force send rate is fundamental peculiarity.

No. of Pages : 14 No. of Claims : 13

(54) Title of the invention : Biometric-Authentication of an above 65- Years Age at land Verification System.

(51) International classification :G06K0009000000, G06F0021320000, A61B0005000000, G07C0009250000, A61B0005117200

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Ranjeeth Kumar M

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. -----

--

2)Dr. Raghuram Bhukya**3)Sridhar Gujjeti****4)Rekha Gangula****5)Hanumanthu Bhukya****6)Sridhara Murthy Bejugama**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Ranjeeth Kumar M

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. -----

2)Dr. Raghuram Bhukya

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. -----

3)Sridhar Gujjeti

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. -----

4)Rekha Gangula

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. -----

5)Hanumanthu Bhukya

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. -----

6)Sridhara Murthy Bejugama

Address of Applicant :Assistant Professor , Department of CSE, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. -----

(57) Abstract :

ABSTRACT Technology based on Biometric identification and verification is one leading research area. It deals with the concept analyzing the human body characteristics through Biometric devices for various authentications process. There are many Biometric authentication systems are available for verification process. This paper discusses the role of Fingerprint authentication. FP recognition is highly used biometric technique, because of abundance sources (i.e. ten fingers) availability for collecting data. Discussion on Fingerprint matching techniques, recognition methods and their performance analysis are made in the paper. n we are aware that diamonds are forever but, are fingerprints It is well known that biometrics brings to the security field a new paradigm: unlike traditional systems, individuals are not identified by something that they have or they know, but by what they are. While such an approach entails some clear advantages, an important question remains: Is what we are today the same as what we will be tomorrow The present paper addresses such a key problem in the fingerprint modality based on a database of over 400K impressions coming from more than 250K different fingers. The database was acquired under real operational conditions and contains fingerprints from subjects aged 0-25 years and 65-98 years. Fingerprint pairs were collected with a time difference which ranges between 0 and 7 years. Such a unique set of data has allowed us to analyse both the age and ageing effects, shedding some new light into issues like fingerprint permanence and fingerprint quality.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241024615 A

(19) INDIA

(22) Date of filing of Application :26/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SCALABLE NETWORKS AND COMMUNICATION PROTOCOL FOR TELE-OPERATED ROBOTS

(51) International classification :H04L0029060000, H04W0028080000, A61B0034350000, A61B0006030000, A61B0034000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)V V RADHAKRISHNAN

Address of Applicant :Vazheparambil House Chittatukara, Vadakkekara North Parur, Ernakulam District Kerala - 683522 ----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)V V RADHAKRISHNAN

Address of Applicant :Vazheparambil House Chittatukara, Vadakkekara North Parur, Ernakulam District Kerala - 683522 ----

(57) Abstract :

ABSTRACT SCALABLE NETWORKS AND COMMUNICATION PROTOCOL FOR TELE-OPERATED ROBOTS A system for maintaining scalable networks and communication protocol for robots, the system comprising a controller, an R-Protocol adaptor, and a motor encoding module. The controller comprising stored information that includes a layer of motion related commands that are intended to be transmitted to one or more of the robots. The R-Protocol adaptor is in communication with the controller to receive the motion related commands. The motor encoding module is in communication with the R-Protocol adaptor, to receive the motion related commands that are transmitted to the one or more robots, where the R-Protocol adaptor receives feedback from the one or more robots and the motor encoding module, which is transmitted back to the controller.

No. of Pages : 37 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2022

(21) Application No.202241024954 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Recued the Gum disease is caused by plaque the sticky film of bacteria that is constantly forming on our teeth.

(51) International classification :A61Q0011000000, A61C0019060000, A61C0019040000, A61Q0017000000, A61K0008420000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Ruparani Bodduru
Address of Applicant :(Professor, Department of Periodontics & Implantology, MNR Dental College, MNR Nagar, Fasalwadi, Sangareddy, medak district, Telangana -----

2)Dr. Lavanya Boyeena
3)Dr. Kanakagiri Phani Ysaswini
4)Dr. Chaitanya Golla
5)Dr. Sheema shahed
6)Dr. Ashritha Ravali
7)Dr. M. Ramakanth
8)Dr. Gorantla Goutham kumar
9)Dr. Harini Reddy Mekala
10)Dr. H. K. Sushmitha
11)Dr. M. V. Aruna
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. Ruparani Bodduru
Address of Applicant :(Professor, Department of Periodontics & Implantology, MNR Dental College, MNR Nagar, Fasalwadi, Sangareddy, medak district, Telangana -----
2)Dr. Lavanya Boyeena
Address of Applicant :(Senior Lecturer, Department of Periodontics & Implantology, MNR Dental College and hospital, Sangareddy) medak district, Telangana. -----
3)Dr. Kanakagiri Phani Ysaswini
Address of Applicant :Senior Lecturer, Department of Periodontics & Implantology, MNR Dental College and hospital, sangareddy) medak district, Telangana. -----
4)Dr. Chaitanya Golla
Address of Applicant :Senior Lecturer, Department of Periodontics & Implantology, MNR Dental College and hospital, sangareddy) medak district, Telangana. -----
5)Dr. Sheema shahed
Address of Applicant :Final year PG student, Department of Periodontics & Implantology, MNR Dental College and hospital, Sangareddy) medak district, Telangana. -----
6)Dr. Ashritha Ravali
Address of Applicant :Final year PG student, Department of Periodontics & Implantology, MNR Dental College and hospital, Sangareddy) medak district, Telangana. -----
7)Dr. M. Ramakanth
Address of Applicant :Final year PG student, Department of Periodontics & Implantology, MNR Dental College and hospital, Sangareddy) medak district, Telangana. -----
8)Dr. Gorantla Goutham kumar
Address of Applicant :Second year PG student, Department of Periodontics & Implantology, MNR Dental College and hospital, Sangareddy) medak district, Telangana. -----
9)Dr. Harini Reddy Mekala
Address of Applicant :Second year PG student, Department of Periodontics & Implantology, MNR Dental College and hospital, sangareddy) medak district, Telangana. -----
10)Dr. H. K. Sushmitha
Address of Applicant :First year PG student, Department of Periodontics & Implantology, MNR Dental College and hospital, Sangareddy) medak district, Telangana. -----
11)Dr. M. V. Aruna
Address of Applicant :First year PG student, Department of Periodontics & Implantology, MNR Dental College and hospital, Sangareddy) medak district, Telangana. -----

(57) Abstract :
ABSTRACT Our Invention Recued the Gum disease is caused by plaque the sticky film of bacteria that is constantly forming on our teeth is a Periodontal pockets are spaces or openings encompassing the teeth under the gum line. These pockets can become loaded up with disease causing microbes. Periodontal pockets are a side effect of periodontitis (gum illness), a genuine oral disease. Periodontal pockets can be dealt with and switched with great oral cleanliness or with dental treatment. However, when left untreated, periodontal pockets can prompt tooth misfortune. Peruse on to find out about periodontal pockets and answers for their treatment as well as anticipation and chance elements you have some control over. The periodontal pocket process begins with gum disease, a gum contamination brought about by the development of plaque in the mouth. Plaque is a tacky film made out of microscopic organisms and food flotsam and jetsam that structure on teeth. Dental plaque is a basically and practically coordinated biofilm. Plaque structures in an arranged manner and has an assorted microbial piece that, in wellbeing, remains somewhat stable over the long haul (microbial homeostasis). The overwhelming species from unhealthy destinations are not quite the same as those found in sound locales, albeit the putative microbes can regularly be recognized in low numbers at ordinary destinations. In dental caries, there is a shift toward local area predominance by acidogenic and corrosive enduring species, for example, mutans streptococci and lactobacilli, albeit different species with significant qualities might be involved. Systems to control caries could incorporate restraint of biofilm advancement (for example counteraction of connection of cariogenic microscopic organisms, control of cell flagging instruments, conveyance of compelling antimicrobials, and so forth), or upgrade of the host guards.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : Development of Predictive Controller for Intelligent Induction Motor Drive

(51) International classification :G05B0013040000, H02P0027060000, H02M0007538700, H02P0021050000, B02C0025000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Anush Prabhakaran

Address of Applicant :Research Scholar, Department of Electrical and Electronics Engineering , Kumaraguru college of technology, saravanampatti, Coimbatore, tamilnadu -----

2)Thirumoorthi P**Name of Applicant : NA****Address of Applicant : NA**

(72)Name of Inventor :

1)Anush Prabhakaran

Address of Applicant :Research Scholar, Department of Electrical and Electronics Engineering , Kumaraguru college of technology, saravanampatti, Coimbatore, tamilnadu -----

2)Thirumoorthi P

Address of Applicant :Professor, Department of electrical and electronics Engineering ,Kumaraguru college of Technology Coimbatore, Tamil Nadu, India. -----

(57) Abstract :

ABSTRACT Our Invention Development of Predictive Controller for Intelligent Induction Motor Drive is a direct optimization of the inverter states is used instead of PID control system design and implementation. As a result, the traditional PWM (Pulse Width Modulation) methods is not required in the implementation of the control systems, thereby simplifying the implementation procedure. In the presence of the inverter states constraints, the original objective function is shown to be equivalent to an objective function expressed in terms of the differences between the optimal inverter state calculated from using the deadbeat controller and the candidate inverter states. Load characteristics of variable speed drive would require its torque to be in a wider spectrum of operation such as Tread mill operation, Electric vehicles, Traction application, Variable Delivery Hydraulic Power Packs, Reverse osmosis with variable speed to match up the pressure, Centralized cooling system (HVAC) etc. The analysis and designing of a predictive algorithm that suits multi domain operation of the induction motor with less number of sensors or ideally no sensor fixed to the motor for its operation will be focused in this work.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2022

(21) Application No.202241024956 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Multiple face three-axis to Five- axis CNC machine

(51) International classification :C08J0009280000, A47L0013160000, G06F0030170000, B29C0031000000, B29K0105080000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. NEELIMA DEVI CHINTA
Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
2)Mr. MANI KUMAR VELUGULA
3)Dr. SRINIVASA PRASAD KATRENIPADU
4)Dr. SATISH PUJARI
5)Mr. DAVALA RAJESH
6)Mr. KOMALESWARARAO MALLELA
7)Mr. KAMALESH KUMAR SHARMA
8)Mr. ADDEPALLI VENKATA SURYA
9)Mr. BULA RATNA KUMAR AMBEDKAR
10)Mr. GANDHI MALLELA
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. NEELIMA DEVI CHINTA
Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
2)Mr. MANI KUMAR VELUGULA
Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
3)Dr. SRINIVASA PRASAD KATRENIPADU
Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
4)Dr. SATISH PUJARI
Address of Applicant :(Professor, Department of Mechanical Engineering) Lendi Institute of Engineering and Technology, Jonnada, Denkada (M), Vizianagaram, Andhra Pradesh, INDIA-535005. -----
5)Mr. DAVALA RAJESH
Address of Applicant :(Assistant Professor(Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
6)Mr. KOMALESWARARAO MALLELA
Address of Applicant :(Assistant Professor(Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
7)Mr. KAMALESH KUMAR SHARMA
Address of Applicant :(Assistant Professor(Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
8)Mr. ADDEPALLI VENKATA SURYA
Address of Applicant :GOWTHAM (Assistant Professor (Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

9)Mr. BULA RATNA KUMAR AMBEDKAR
Address of Applicant :(Assistant Professor(Contract), Department of Metallurgical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----
10)Mr. GANDHI MALLELA
Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, Tamil Nadu, INDIA – 600062. -----

(57) Abstract :
ABSTRACT Our Invention Multiple face three-axis to Five- axis CNC machine is a these days the vast majority of the parts inside machine-building industry are machines on CNC machine-devices. As indicated by their mechanical and kinematic structure, CNC machine-instruments can be partitioned into 3-tomahawks and 5-tomahawks ones. Each type enjoys its benefits and downsides and picking between them could be a truly challenging interaction. This paper presents a choice help apparatus for supporting the most common way of choosing among utilizing as well as purchasing either a 3-tomahawks CNC processing machine or a 5-tomahawks processing machine, in view of fluffy rationale. The apparatus was assembled utilizing the Fuzzy Logic Toolbox and the fluffy graphical UI (GUI) inside Matlab programming bundle. The result variable of the summed up model was characterized as utility of 5-tomahawks CNC machine and shifts somewhere in the range of 0 and 1. As indicated by the proposed technique, when the result is more prominent than 0.5, the change from 3-tomahawks CNC machine to 5-tomahawks CNC machine ought to be finished. For the development of the fluffy model, the incorporated programming climate MATLAB was utilized, with the module Fluffy Logic Toolbox. The creators have been selected a graphical-interface-type workplace (rather than the order line-type), since it permits the client to zero in on understanding and refining the model. The primary characteristics of the model are is acknowledgment in an open design, offering the likelihood to quickly and effectively change it and to picture the outcomes progressively.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2022

(21) Application No.202241024957 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN AND FABRICATION OF ELLIPTICAL TRICYCLE USING TILTING MECHANISM

(51) International classification :B62K0005100000, B62K0005050000, B62K0005027000, B60G0021000000, B62D0009020000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. NEELIMA DEVI CHINTA

Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) ,JNTUK-University College of Engineering Vizianagaram, Dwarapudi(V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

2)Mr. MANI KUMAR VELUGULA

3)Dr. SRINIVASA PRASAD KATRENIPADU

4)Dr. SATISH PUJARI

5)Mr. DAVALA RAJESH

6)Mr. KOMALESWARARAO MALLELA

7)Mr. KAMALESH KUMAR SHARMA

8)Mr. ADDEPALLI VENKATA SURYA

9)Mr. BULA RATNA KUMAR AMBEDKAR

10)Mr. GANDHI MALLELA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. NEELIMA DEVI CHINTA

Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) ,JNTUK-University College of Engineering Vizianagaram, Dwarapudi(V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

2)Mr. MANI KUMAR VELUGULA

Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003 -----

3)Dr. SRINIVASA PRASAD KATRENIPADU

Address of Applicant :Assistant Professor, Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003 -----

4)Dr. SATISH PUJARI

Address of Applicant :(Professor, Department of Mechanical Engineering) Lendi Institute of Engineering and Technology, Jonnada, Denkada (M), Vizianagaram, Andhra Pradesh, INDIA-535005. -----

5)Mr. DAVALA RAJESH

Address of Applicant :(Assistant Professor(Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

6)Mr. KOMALESWARARAO MALLELA

Address of Applicant :(Assistant Professor(Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

7)Mr. KAMALESH KUMAR SHARMA

Address of Applicant :(Assistant Professor(Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

8)Mr. ADDEPALLI VENKATA SURYA

Address of Applicant :GOWTHAM (Assistant Professor (Contract), Department of Mechanical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

9)Mr. BULA RATNA KUMAR AMBEDKAR

Address of Applicant :(Assistant Professor(Contract), Department of Metallurgical Engineering) JNTUK-University College of Engineering Vizianagaram, Dwarapudi (V), Gotlam (M), Vizianagaram, Andhra Pradesh, INDIA-535003. -----

10)Mr. GANDHI MALLELA

Address of Applicant :(Assistant Professor, Department of Mechanical Engineering) Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, Tamil Nadu, INDIA - 600062. -----

(57) Abstract :

ABSTRACT [602] Our invention Design and Fabrication of Elliptical Tricycle Using Tilting Mechanism Is a The load incurred on the suspension system of a vehicle is the maximum when it makes a turn or runs around a corner due to the centrifugal/centripetal forces acting on it. If the vehicle could lean by a certain angle when making a turn, it could retain its tire grip and stability as it was during a straight road run. It is very effective for a suspension system to offer maximum damping efficiency without compensating the vehicle's stability and grip. Tilt suspension system is the most efficient design for a 3- wheeler suspension system and a vehicle has to lean if it is going to feel like a motorcycle. A front Trike conversion also puts more traction up front, improving cornering and braking. The main concept behind the tilt suspension system is that the two front wheels remain at the exact same angle as of the vehicle when it is leaning or taking a corner. When the vehicle tilts the contact patch of the tires remain with the same area, hence there is no change in the dynamics of the wheel unless they are loaded. With tilt suspension system we can ensure 50% added stability and traction to the wheels on cornering with the same thrill and fun of riding a motorcycle. The only things that we need to consider are those trikes and other three wheelers do not do sharp turns like bikes and we will face larger turning circles.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2022

(21) Application No.202241024958 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Advanced Metal Braces for Orthodontic Treatment.

(51) International classification :A61C0007000000, A61C0007360000, A61C0007080000, G01R0021060000, C07C0043230000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. T.R. JAYAPRAKASH REDDY
Address of Applicant :Professor & Head, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana -502294 -----
2)DR. SUJAN KUMAR KV
3)DR. SARA GEORGE
4)DR.CHADALAWADA LIKITHA
5)Dr. VISHNU PRIYA CHERUKURI
6)Dr. KOMMERA NIKITHA REDDY
7)Dr. PRAVEEN KUMAR MUDDA
8)Dr. GANDHAM JAMES
9)DR. DIKSHA
10)DR. KONDAPARTHI BHAVANI
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. T.R. JAYAPRAKASH REDDY
Address of Applicant :Professor & Head, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana -502294 -----
2)DR. SUJAN KUMAR KV
Address of Applicant :Professor, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana-502294 -----
3)DR. SARA GEORGE
Address of Applicant :Senior Lecturer, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana-502294 -----
4)DR.CHADALAWADA LIKITHA
Address of Applicant :Senior Lecturer, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy, District, Telangana-502294 -----
5)Dr. VISHNU PRIYA CHERUKURI
Address of Applicant :Senior Lecturer, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana-502294 -----
6)Dr. KOMMERA NIKITHA REDDY
Address of Applicant :Post Graduate Student, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana-502294 -----
7)Dr. PRAVEEN KUMAR MUDDA
Address of Applicant :Post Graduate Student, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana-502294 -----
8)Dr. GANDHAM JAMES
Address of Applicant :Post Graduate Student, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana-502294 -----
9)DR. DIKSHA
Address of Applicant :Post Graduate Student, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana-502294 -----
10)DR. KONDAPARTHI BHAVANI
Address of Applicant :Post Graduate Student, Department of Orthodontics, MNR Dental College, Fasalwadi, Sangareddy District, Telangana -----

(57) Abstract :

ABSTRACT Our Invention Advanced Metal Braces for Orthodontic Treatment is a Orthodontic supports incorporate something like one string and no less than one tightener wherein the string is twisted around at least one teeth D and is fittingly tensioned by the tightener to apply something like one power on the at least one teeth D to treat malocclusions, labioversions, and mandibular relapses. A cross-sectional review was done with information assortment from a Google structure survey disseminated in Saudi Arabia by means of different types of online entertainment over a time of 4 months. OHRQoL was surveyed utilizing the approved Arabic form of the Oral Health Impact Profile-14 (OHIP-14) poll. The style supports bunch included respondents who had supports introduced for design purposes as it were. Restorative supports bunch included subjects who were wearing supports to treat any malocclusion issues. Control bunch included subjects who had no sort of supports. Individuals who had recently finished orthodontic medicines were rejected from the review. The adverse consequences were isolated into seven spaces and an absolute OHIP score was determined. Factual examinations and information delineation were performed with SPSS v25 (IBM, NY). A sum of 5643 individuals willfully took an interest in the review. Over 66% of the members were in the benchmark group while 33.756% had customary supports for remedial reasons and 3.423% had style supports. Sociodemographic disseminations changed among the gatherings, with most of the style supports bunch having schooling beneath the college level and family salaries not exactly normal. There were huge gathering contrasts in OHIP spaces. Actual agony was the most often detailed grumbling by all subjects and was the most elevated in the remedial supports bunch. Individuals with helpful supports announced fundamentally higher practical constraint and actual inability than the controls. Style supports bunch detailed fundamentally lower mental inconvenience and inability, social incapacity and impediment contrasted with control gatherings.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241025972 A

(19) INDIA

(22) Date of filing of Application :04/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : Customer Segmentation using ML- Based.

(51) International classification :G06Q0030020000, G06Q0030060000, A61K0039000000, G06F0008300000, A63F0013825000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vidya Jyothi Institute of Technology

Address of Applicant :Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Bhargavi Peddireddy

Address of Applicant :Associate Professor, Department of CSE, Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad ----

2)Dr. K S R K Sarma

Address of Applicant :Associate Professor, Department of CSE, Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad ----

3)Mr. CH Naveen Kumar Reddy

Address of Applicant :Associate Professor, Department of IT, Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad ----

4)Mr. Srinivasa Rao Kongarana

Address of Applicant :Associate Professor, Department of CSE, Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad ----

5)Dr. D. Marlene Grace Verghese

Address of Applicant :Associate Professor, Department of IT, Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad ----

6)Mrs M Vijaya laxmi

Address of Applicant :Assistant Professor, Department of IT, Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad ----

7)Dr M. Nagabhushana Rao

Address of Applicant :Professor, IT Department, Vidya Jyothi Institute of Technology, Aziz Nagar, Hyderabad -----
--

(57) Abstract :

ABSTRACT Our Invention Customer Segmentation using ML- Based is adopting fruitful E-Commerce, the main things are advancement and understanding what client needs. Presently a-days the simplicity of utilizing online business urges the clients to purchase utilizing web based business. It runs based on development being able to excite the clients with the items, however with such an enormous pontoon of items leave the clients befuddled of what to purchase and what not to. As indicated by business, an organization might make three fragments like High (Group who purchases frequently, spends more and visited the stage as of late) , Medium (Group which spends not exactly high gathering and isn't that much regular to visit the stage) and Low (Group which is nearly producing). This is where Machine Learning gives a urgent arrangement, a few calculations are applied for uncovering the secret examples in information for better navigation. In this invention we proposed a Customer division idea in which the client bases of a foundation is separated into fragments in view of the clients' qualities and properties. This thought can be utilized by the B2C organizations to beat the opposition by growing interestingly engaging items and administrations and make it reach to possible clients. This approach is carried out utilizing k-implies, a solo bunching AI calculation

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2022

(21) Application No.202241027300 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF UNMANNED AERIAL VEHICLE USED IN SMART AGRICULTURE

(51) International classification	:A01M0007000000, B64C0039020000, G05D0001100000, A61L0002220000, B64C0027080000	(71)Name of Applicant : 1)Santosh M Nejakar Address of Applicant :Nejakar Technologies, Siddadevanagar, Near Head Post Office ----- 2)DR. GANESH D B 3)DR. SANTOSH HERUR Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor : 1)DR. SANTOSH HERUR Address of Applicant :Associate Professor and Head, Dept of ECE, Jain Institute of Technology. No. 323, Near Veereshwar Punyashrama, Bada Cross, Avaragere Village, Davanagere, Karnataka, India Davanagere -----
Filing Date	:01/01/1900	2)NITISHKUMAR C Address of Applicant :B.E 8th Sem Student Dept of ECE, Jain Institute of Technology. No. 323, Near Veereshwar Punyashrama, Bada Cross, Avaragere Village, Davanagere, Karnataka, India Davanagere -----
(87) International Publication No	: NA	3)BHUMIKA B H Address of Applicant :B.E 8th Sem Student Dept of ECE, Jain Institute of Technology. No. 323, Near Veereshwar Punyashrama, Bada Cross, Avaragere Village, Davanagere, Karnataka, India Davanagere -----
(61) Patent of Addition to Application Number	:NA	4)PREETHI N Address of Applicant :B.E 8th Sem Student Dept of ECE, Jain Institute of Technology. No. 323, Near Veereshwar Punyashrama, Bada Cross, Avaragere Village, Davanagere, Karnataka, India Davanagere -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The entire prototype research and design is based on quantitative practical research. This base paved us to design a drone with spraying mount mechanism having 12 volts pump, a liquid container tank, and sprayer nozzle for fine spray, a quad copter with 16-degree frame, landing gears, and BLDC (brushless direct current) motors with suitable propellers to produced desired thrust. The agricultural drones are very suitable for working in large fields and rough terrains with high efficiency. Drones can improve and increase the efficiency of spraying more area of farming land in a shorter time duration compared to manual spraying. Presently in agriculture, there is huge scope for Drones and UAVs. Because of small size and ease of access, this pesticide-spraying drone reduces no of labour, time, cost, and be used for spraying disinfectant over water bodies, buildings and populated areas by choosing the desired flow discharge of the pump. Drone applications have ability to help developing countries with economic growth.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241027547 A

(19) INDIA

(22) Date of filing of Application :13/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ADVANCED ATM CRIME PREVENTION SYSTEM USING ARDUINO

(51) International classification :G07F0019000000, G06Q0020100000, E05G0001000000, H04N0007180000, G08B0013080000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1) VIPULKUMAR MANIBHAI DABHI Address of Applicant :KOMMURI PRATAP REDDY, INSTITUTE OF TECHNOLOGY, GHANAPUR(V) GHATKESAR(M), MEDCHAL (D), HYDERABAD, TELANGANA, INDIA, 500088 ----- 2)Dr. D. ESHWAR 3)SHYAM KONDETI 4)GOTTE VIJAYA LAKSHMI 5)NUNAVATH RAVINDAR 6)BHUKYA THIRUPATHI NAIK Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)VIPULKUMAR MANIBHAI DABHI Address of Applicant :KOMMURI PRATAP REDDY, INSTITUTE OF TECHNOLOGY, GHANAPUR(V) GHATKESAR(M), MEDCHAL (D), HYDERABAD, TELANGANA, INDIA, 500088 ----- 2)Dr. D. ESHWAR Address of Applicant :KOMMURI PRATAP REDDY, INSTITUTE OF TECHNOLOGY, GHANAPUR(V) GHATKESAR(M), MEDCHAL (D), HYDERABAD, TELANGANA, INDIA, 500088 ----- 3)SHYAM KONDETI Address of Applicant :44-414/20/1, NEW SRI NAGAR COLONY, IDA, MOULA ALI, NEW SRI NAGAR COLONY, IDA, MOULA ALI, HYDERABAD, TELANGANA, INDIA, 500040 ----- 4)GOTTE VIJAYA LAKSHMI Address of Applicant :4-158/6, VSSV NAGAR, CHENGICHERLA, HYDERABAD, TELANGANA, INDIA, 500092 ----- 5)NUNAVATH RAVINDAR Address of Applicant :2-99, SANGYA THANDA, YADADRI BHONGIR, TELANGANA, INDIA, 508116 ----- 6)BHUKYA THIRUPATHI NAIK Address of Applicant :1-2-159/93, UPPAL, HYDERABAD, TELANGANA, INDIA, 500039 -----

(57) Abstract :

Title: Advanced ATM crime prevention system using Arduino Automated teller machine (ATM) now days are extensively used all over the world for withdrawal of cash. A unique card is issued for each user along with the unique code provided to him so that the person may do all his transactions personally without anyone getting known, we going to prevent ATM machine with wireless technology. We have to provide some security systems to prevent the crime if we notice any kind of theft. Hence the implementation of ATM crime prevention system is necessary. This system uses ARDUINO controller based embedded system to process real time data collected using the vibration sensor. Whenever robbery occurs vibration sensor is used here which senses vibration and sounds will occur from the buzzer and to the corresponding banked motor of the door automatically closes to easy catch the theft. All input and out modules are interfaced to ARDUINO Microcontroller which process input data and provide output with help of 5V regulated power supply. Name-

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241027616 A

(19) INDIA

(22) Date of filing of Application :13/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND SYSTEM FOR EFFICIENTLY PREDICTING TRAFFIC FLOW AND CONDITIONS USING DEEP LEARNING MODELS

(51) International classification	:G08G0001010000, G06N0003040000, G06N0003080000, G06Q0010040000, G06N0003020000	(71)Name of Applicant : 1)DR. T. VENUMADHAV (Principal) Address of Applicant :DEPARTMENT OF CIVIL ENGINEERING AUDISANKARA INSTITUTE OF TECHNOLOGY GUDUR TIRUPATI (D.T) Tirupati ----- 2)DR. A. SWARUPA RANI (Associate Professor) 3)V. SURENDRA REDDY (Associate Professor) 4)G. PRANY KUMAR (Associate Professor) 5)S. SUDHEER KUMAR (Associate Professor) 6)P. SREE LAKSHMI (Associate Professor) Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor : 1)DR. T. VENUMADHAV (Principal) Address of Applicant :DEPARTMENT OF CIVIL ENGINEERING AUDISANKARA INSTITUTE OF TECHNOLOGY GUDUR TIRUPATI (D.T) Tirupati -----
Filing Date	:01/01/1900	2)DR. A. SWARUPA RANI (Associate Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AUDISANKARA INSTITUTE OF TECHNOLOGY GUDUR TIRUPATI (D.T) Tirupati -----
(87) International Publication No	: NA	3)V. SURENDRA REDDY (Associate Professor) Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AUDISANKARA INSTITUTE OF TECHNOLOGY GUDUR TIRUPATI (D.T) Gudur -----
(61) Patent of Addition to Application Number	:NA	4)G. PRANY KUMAR (Associate Professor) Address of Applicant :DEPARTMENT OF CIVIL ENGINEERING AUDISANKARA COLLEGE OF ENGINEERING AND TECHNOLOGY GUDUR TIRUPATI (D.T) Gudur -----
Filing Date	:NA	5)S. SUDHEER KUMAR (Associate Professor) Address of Applicant :DEPARTMENT OF CIVIL ENGINEERING AUDISANKARA INSTITUTE OF TECHNOLOGY GUDUR TIRUPATI (D.T) Gudur -----
(62) Divisional to Application Number	:NA	6)P. SREE LAKSHMI (Associate Professor) Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING AUDISANKARA INSTITUTE OF TECHNOLOGY GUDUR TIRUPATI (D.T) Gudur -----
Filing Date	:NA	--

(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR EFFICIENTLY PREDICTING TRAFFIC FLOW AND CONDITIONS USING DEEP LEARNING MODELS The present invention provides a method and system for efficiently predicting traffic flow and conditions using deep learning models. The method and system aims at the traffic flow prediction problem that the number of available data sets is limited and the area selection is limited. The different architecture designs and parameter selection have other effects on neural network training. Therefore, the present invention proposes a Fuzzy logic and Deep learning based Flow Prediction model that takes into account the high dynamics, randomness, and instability of urban traffic, builds a training set based on fuzzy logic, and builds and trains a deep neural network, to realize real-time detection of urban traffic congestion level and flow prediction.

No. of Pages : 22 No. of Claims : 5

(54) Title of the invention : SMART WASTE SEGREGATION USING ARDUINO UNO ATMEGA328P

(51) International classification :B65F0001000000, B65F0001140000, B65F0003000000, B65F0001120000, G06Q0010000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Dr.Venkateshappa**

Address of Applicant :REVA Univesity, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore, Karnataka INDIA, 560064 Bangalore -----

2)Revanth Kariappa K R**3)Rohit****4)Manoj M****5)Ramakrishna K****6)REVA University****Name of Applicant : NA****Address of Applicant : NA****(72)Name of Inventor :****1)Dr.Venkateshappa**

Address of Applicant :REVA Univesity, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore, Karnataka INDIA, 560064 Bangalore -----

2)Revanth Kariappa K R

Address of Applicant :113, Ivathoklu, Madikeri, Karnataka-571202 Medikeri -----

3)Rohit

Address of Applicant :No 3 and 4, Oppo Murarji Desai Hostel, Bangalore, Karnataka-562162 Bangalore -----

4)Manoj M

Address of Applicant :51/60, Tulasi Nagar, Bangalore, Karnataka-560091 Bangalore -----

5)Ramakrishna K

Address of Applicant :Mandakki Bhatti, Bell town, Oppo to Swamy hotel, Chitradurga, Karnataka-577598 Chitradurga -----

(57) Abstract :

Day by day increasing in population, has led to the irregular waste management in cities resulting in increasing of pests and spreading of diseases. Nowadays, the Garbage Collecting Vehicle (GCV) collects the waste twice or thrice in a week and there is increase in land filling and dumping sites due to poor waste management which instigated pollution and a waste of recyclable materials that can be used for recycling or remanufacturing. So, to overcome from this problem and overflowing of wastages on the roads. This project proposes the use of technology to tackle the issues being faced in terms of waste management using Smart waste segregation used for waste segregation is proposed for segregating the wastes such as metal, recyclable waste and wet waste. People are throwing about 79.3 % of waste which can be recycled. By this we get the result the automatic waste segregation system. This patent proposes such a system which is cheap and easy to use. The whole segregation process is done in two steps. Firstly, the waste is detected by ultrasonic sensor and detected waste send to different dustbin. In Second part, the picked waste is sensed on the waste segregation system and segregate the waste such as metal waste, recyclable waste and wet waste by means of Eddy-current proximity sensor, Capacitive proximity sensor, Wet sensor. Then the waste dumped into the bin. The proposed system utilizes Arduino Uno atmega328p programmed in embedded C++ using Arduino ide software.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/05/2022

(21) Application No.202241027799 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : WIRELESS OPTICAL COMMUNICATION LINK

(51) International classification :H04B0010112000, H04B0010110000, H04B0010516000, H04B0007185000, H04B0010500000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)REVA University

Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore, Karnataka, 560064 Bangalore -----

2)Govind Kumar R

3)Jayant Verma

4)G Lokesh Guptha

5)Gagan Ganapathy A A

6)Dr. Rohini Deshpande

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Govind Kumar R

Address of Applicant :#22, Thanisandra Main Road, Bangalore, Karnataka, 560077 Bangalore -----

2)Jayant Verma

Address of Applicant :: #B22, ESI Hospital Ring Road, Hosur, Tamil Nadu, 635126 Hosur -----

3)G Lokesh Guptha

Address of Applicant :: #10-444, Near Satya Narayana Swamy Temple, Markapur, Andhra Pradesh, 523316 Markapur -----

4)Gagan Ganapathy A A

Address of Applicant :: #19, LKR Nagar, Lottogollanahalli, Bangalore, Karnataka, 560094 Bangalore -----

5)Dr. Rohini Deshpande

Address of Applicant :School of ECE, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore-560064, Karnataka Bangalore -----

(57) Abstract :

Abstract: Laser as a communication medium can provide a good substitute for the present-day communication systems as the problem of interface faced in case of EM waves is not there and high deal of secrecy is available. Optical communication offers a viable alternative to RF communications for inter satellite links and other applications where high-performance links are a necessity. This project is intended to provide an overview of innovation that has been attained with the help of lasers to transmit sound and elaborates on how it is being used along with the future developments. In the transmitter, the intensity of the laser beam is modulated by the output of code oscillator. Using a push to on switch the tone oscillator is activated to alert the person at the receiver end before starting a voice communication using the microphone. The receiver receives the intensity-modulated light signals through the light sensor and outputs the code and alerted voice. We will analyze the result using Solar Panel and ordinary optical detectors (Light-dependent resistors).

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/05/2022

(21) Application No.202241027800 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : MULTIPURPOSE BATTERY SWAPPORT AND CHARGING STATION FOR AUTONOMOUS DRONES IN DEFENSE AND E-COMMERCE SECTORS

(51) International classification :B64C0039020000, B60L0053800000, G05D0001000000, B64D0047080000, G05D0001100000 (86) International Application No :PCT// / Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)A G ANJU Address of Applicant :School of Electronics and Elecrtical Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka- 560064 ----- ----- 2)REVA University 3)AKASH G 4)ARJUN S 5)ASHWIN ALEX GEORGE 6)Dr. M DEVANATHAN Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)A G ANJU Address of Applicant :School of Electronics and Elecrtical Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka- 560064 ----- ----- 2)AKASH G Address of Applicant :#1491, Guru Krupa, First Main Road,2/A Cross Kalyan Nagar, T.Dasarahalli, Bengaluru, Karnataka- 560057 ----- 3)ARJUN S Address of Applicant :Aranhikkal House, Sreekrishnapuram, Palakkad, Kerala – 679513 ----- 4)ASHWIN ALEX GEORGE Address of Applicant :#16, Sreepadmam Saptagiri Layout,4th Cross, Shettihalli, Jalahalli, Bengaluru, Karnataka- 560015 ----- ----- 5)Dr. M DEVANATHAN Address of Applicant :Reva University, School Of Ece, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka- 560064 -----

(57) Abstract :

Abstract Drones, as we know, are not only a source of entertainment in today's fast-paced culture, but also a tool that we use for smart agriculture, aerial photography and video, surveying, package transportation, search and rescue, and a variety of other uses. Drones must evolve in terms of autonomy in flight, energy management, and the ability to cover large distances in order for these applications to be successful. The major scope of the model explained in the report is to overcome the current situation which sets limitation on the distance a drone can travel due to numerous battery restrictions. The quadcopter monitors the voltage level of the battery from start of mission with the help of flight controllers, GPS module and a microprocessor. The path is preplanned to the target along predefined SWAPPORT locations. Once the voltage level falls below the threshold, quadcopter locates the nearest SWAPPORT location for swapping the drained battery. SWAPPORT is a versatile battery swapping mechanism bot that also doubles as a charging station for autonomous drones. Each SWAPPORT is equipped with robotic arms equipped with 2-dimensional movement that swap out the depleted battery for a fully charged one. Hence, it makes it possible to go considerable distances with a single drone, overcoming the current constraint. The major outcome of drone battery swapping and charging station is that it can be widely used for a variety of purposes majorly E-commerce and defense sector, making it more valuable and efficient. Additionally, we also have a feature for charging of third party VTOL drone's.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241027801 A

(19) INDIA

(22) Date of filing of Application :14/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A-RiCoBiT : Adaptive Ring Connected Binary Tree : An Adaptive Topology For Further Multi core Processor

(51) International classification	:H04L0012751000, H04L0012721000, G06F0111020000, G06F0119060000, G06F0030394000	(71)Name of Applicant : 1)REVA University Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Bengaluru, Karnataka 560064 ----- 2)Dr. Sanju V Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// /	(72)Name of Inventor : 1)Mr. Sanju V Address of Applicant :School of Computers Science & Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Bengaluru, Karnataka 560064 -----
Filing Date	:01/01/1900	2)Mr. Nithin Ramakrishnan Address of Applicant :Asst. Prof., Department Of Computer Science & Engg., MEA Engineering College, Perinthalmanna – 679325 -----
(87) International Publication No	: NA	3)Dr. Sunilkumar S Manvi Address of Applicant :Engineering & Technology, REVA University, Rukmini Knowledge Park, Kattigenahalli, SH 104, Srinivasa Nagar, Bengaluru, Karnataka 560064 -----
(61) Patent of Addition to Application Number	:NA	4)Dikshitha A V , Address of Applicant :216 7C Main HRBR Layout, 1st Block, Kalyan Nagar, Bengaluru, Karnataka 560043 -----
Filing Date	:NA	5)Mr. Binayakanta Senapati Address of Applicant :#165, Jindal Aluminium Ltd, Jindal Nagar, Tumkar Road Bengaluru, Karnataka 560073 -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Network on chip is becoming of the best used interconnection mechanism in processor design. Mesh, torus are the most commonly used topology in this area. The major problem with these topology are that when it is expanded to higher levels the performance drops and is a real problem. For this we come up with A-RiCoBiT (Adaptive Ring Connected Binary Tree). This is one of the latest inventions in the area of network on chip based systems. In this we present a topology with a new routing algorithm which is adaptive in nature

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/05/2022

(21) Application No.202241027802 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DAMAGE ANALYSIS OF AN AUTOMOBILE

(51) International classification :G06Q0040080000, G06Q0010100000, G06T0007000000, G06K0009620000, G06Q0040000000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)REVA University

Address of Applicant :Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore, Karnataka, INDIA,560064

2)R. Melvin Raj

3)R.Akshay Sunny

4)R Jyosthna

5)A.Pratima

6)N. Ramya Madhuri

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)R. Melvin Raj

Address of Applicant :#32,Edith Douglas School, I.T.I Layout, F.C.I Layout, F.C.I Godown Road, Vijinapura ,Dooravani Nagar, Bengaluru, Karnataka 560016 -----

2)R.Akshay Sunny

Address of Applicant :#35,Doddurukarapanahalli, Bangarpet, Kolar, 563162 -----

3)R Jyosthna

Address of Applicant :#35,Doddurukarapanahalli ,Bangarpet, Kolar ,563162 -----

4)A.Pratima

Address of Applicant :School of ECE, REVA University,Rukmini Knowledge Park Kattigenahalli,Yelhanka, Bangalore-560064, Karnataka -----

5)N. Ramya Madhuri

Address of Applicant :: #2/28, Mangalavandlapalli(v),Sidhout(m), Kadapa dist, Andhra Pradesh, 516002. -----

(57) Abstract :

Abstract: Presently, the growth of the automobile sector is directly proportionate to the rise in the number of road accidents. So as a consequence, the insurance firms have been inundated with claims demands. Thus increasing the manpower and time exponentially with the count in accidents. Improvements in the First Notice of Loss and the speed with which claims are investigated and evaluated might produce considerable value by dropping loss adjustment expenditure in the automobile insurance reimbursement process. To automatically identify and classify automotive damage, advanced image analysis and pattern recognition technologies are used. A system that compares before- and after-accident automotive photographs to automatically identify the damaged area(s). If this is accomplished, several cases will be likely to go forward without the need for human modifiers, whilst others continue to proceed more quickly, reducing the time between the initial Notice of Loss and the final payout.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028062 A

(19) INDIA

(22) Date of filing of Application :16/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MOTOR CASE FOR A SADDLE-RIDE TYPE VEHICLE

(51) International classification :B62K0011040000, H02K0005040000, B62K0005010000, B66B0011040000, E03D0005100000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)ULTRAVIOLETTE AUTOMOTIVE PRIVATE LIMITED Address of Applicant :529-530, Intermediate Ring Road, Amarjyoti Layout, Domlur, Bangalore – 560071, Karnataka, India ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)RAJARATHINAM, Karthikeyan Address of Applicant :529-530, Intermediate Ring Road, Amarjyoti Layout, Domlur, Bangalore – 560071, Karnataka, India Bangalore ----- 2)BHAT, Vinayak S Address of Applicant :529-530, Intermediate Ring Road, Amarjyoti Layout, Domlur, Bangalore – 560071, Karnataka, India Bangalore ----- 3)SUBRAMANIAM, Narayan Peruvumba Address of Applicant :529-530, Intermediate Ring Road, Amarjyoti Layout, Domlur, Bangalore – 560071, Karnataka, India Bangalore ----- 4)KAMTHE, Akshay Arvind Address of Applicant :529-530, Intermediate Ring Road, Amarjyoti Layout, Domlur, Bangalore – 560071, Karnataka, India Bangalore -----

(57) Abstract :

ABSTRACT MOTOR CASE FOR A SADDLE-RIDE TYPE VEHICLE The saddle-ride type vehicle (100), as per the current invention, comprises, inter alia, of a main frame (10), a cradle frame (20), a posterior frame (30), a power generation unit (40), and a power transmission unit (50). The main frame (10), the cradle frame (20), the posterior frame (30), and the motor case (502) together form a primary structural member of the vehicle. The motor case (502) comprises of a plurality of motor top support portion (511) and a plurality of motor bottom support portions (512). As per the current invention, the motor top support portion (511) at least partially overlaps with the main frame rear portion (102) in a vehicle side view. Figure - 1

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241028834 A

(19) INDIA

(22) Date of filing of Application :19/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD FOR IMPROVING THE TRIBOLOGICAL PROPERTIES OF TITANIUM SUBSTRATE

(51) International classification :C25D0013020000, C23C0016260000, C08K0003040000, A61L0027060000, C25D0013220000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology Madras

Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post Chennai Tamil Nadu India Chennai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Arunachalam N

Address of Applicant :Ranganathan Building MES Section, Mech. Engg. Dept, IIT Madras Chennai Tamil Nadu India 600036 Chennai -----

2)Madhusmita Mallick

Address of Applicant :Ranganathan Building MES Section, Mech. Engg. Dept, IIT Madras Chennai Tamil Nadu India 600036 Chennai -----

(57) Abstract :

The present invention relates to a method for the improvement of tribological properties of a titanium substrate by applying graphene through electrophoretic deposition method (EPD) at room temperature. Said graphene coated titanium substrate exhibits reduced coefficient of friction and wear rate behaviour thereby enhancing its potential for use in tribological applications.

No. of Pages : 27 No. of Claims : 8

(54) Title of the invention : Development Of Self-Driving Car Prototype

(51) International classification :G05D0001020000, G06K0009000000, G06K0009620000, G05D0001000000, G07B0015060000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Sowmya C H**

Address of Applicant :House No.# 18, 4th Cross,5th Main, Sir M V Extension, Kalkere Main road, Ramamurthy Nagar, Bangalore, Karnataka, 560016 Bangalore -----

2)C Sai Adarsh Varma**3)Chethan Kumar****4)Akshay B R****5)Abhishek Sirdeshpande****6)REVA University**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :**1)Sowmya C H**

Address of Applicant :House No.# 18, 4th Cross,5th Main, Sir M V Extension, Kalkere Main road, Ramamurthy Nagar, Bangalore, Karnataka, 560016 Bangalore -----

2)C Sai Adarsh Varma

Address of Applicant :House No.327 3rd Phase 4th Main, near Ganga Steel Corporation Manjunathanagar Bangalore,Karnataka,560010 Bangalore -----

3)Chethan Kumar

Address of Applicant :#10/1 Lingappa block,RK street Seshadripuram Bangalore -560020 Bangalore -----

4)Akshay B R

Address of Applicant :N0.17/40, 2nd main road, KGS Layout, Vijaynagar, Bengaluru , Karnataka -560040 Bangalore -----

5)Abhishek Sirdeshpande

Address of Applicant :At post:Sureban,TQ: Ramdurg,dist: Belagavi Karnataka -591127 Bangalore -----

(57) Abstract :

Driverless cars used to be the sort of thing you'd see in reel life, but today they are becoming real in real life and not the reserve of science fiction anymore. Driver error is usually the cause of 95 % of the road accidents. With the advancements in deep learning technology, most autonomous vehicles will be able to negate human errors, The roads in India are not conducive for self-driving cars when compared with their western counterparts. Metropolitan cities have roads that overflow with vehicular traffic Furthermore, reckless driving in India such as not following traffic rules, jumping signals, not driving in designated lanes is something that a driverless car is not trained to preempt. Keeping the above constraints in mind, the probable solution to some parts of the problem can be derived through our prototype by using some algorithms namely pothole detection, lane detection, object detection etc, which is trained in a simulated environment. Prototype consisting of a camera takes in real time input and these images, videos, real time data is processed using deep learning, image processing with the help of microprocessor yielding respective optimal results. Later on, obtaining optimal results the algorithms can be implemented for commercial use in actuality. If not immediately for public use, autonomous vehicles must be allowed initially for private usage and then slowly integrate it into public use as well, such as on demand taxis and long hauling. Reduction of road accidents, adherence to speed limits and lane driving, are just some of the benefits that will arise from usage of autonomous vehicles.

No. of Pages : 11 No. of Claims : 9

(54) Title of the invention : HealthTM : A Teller Machine for Remote Health care in Hilly Areas

(51) International classification :G06Q0050220000, H04L0012700000, A61G0003000000, G16H0040200000, G09F0027000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Dr. P V Bhaskar Reddy**

Address of Applicant :School of Computer Science and Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore, Karnataka Bangalore -----

2)REVA University**Name of Applicant : NA****Address of Applicant : NA****(72)Name of Inventor :****1)Dr. P V Bhaskar Reddy**

Address of Applicant :School of Computer Science and Engineering, REVA University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bangalore, Karnataka Bangalore -----

(57) Abstract :

Abstract: Although the society's emergency requirements appear to be being met, there is little doubt that there is space for improvement, particularly in obtaining emergency services—whether through culture responders, ambulance services, or hospital institutions. The indigenous inhabitants of the hills require more secure access to health care. Some factors which are consider when designing terminals include: ease of use, quick and easy understanding of objectives, no need for special skills to use it, compliance with the needs of the regional people such as using audio files for blind and illiterate people, multilinguals, high-speed communication and information distribution, revised based on the current procedures, users' data security, and confidentiality factors such as screen size, type font, and sensible partitioning. Important concerns for creating emergency department terminal systems include hardware mobility, a modular method to entering data, visual simplicity, and ease of physical and cognitive use. An ATM-based virtual care surveillance system enables an individual to check medical parameters, call an ambulance, conduct online consultations, care for infants, and provide counselling in distant mountainous places. The measurements are carried out with the help of suitable sensors, which are all housed in an ATM center. The aim of the model is to extend the medical facilities and the mobility to remote people

No. of Pages : 9 No. of Claims : 9

(54) Title of the invention : Indoor Air Quality Recommender using Machine Learning

(51) International classification :F24F0110200000, F24F0011300000, F24F0011520000, F24F0110500000, G01N0015060000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr Geeta C Mara Address of Applicant :School of Computing and Information Technology, REVA University, Kattigenahalli, Yelahanka, Kattigenahalli, Bengaluru, Karnataka, India Bangalore ----- --- ----- 2)Mr. Mohamed Abdul Kader Jailani 3)REVA University Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr Geeta C Mara Address of Applicant :School of Computing and Information Technology, REVA University, Kattigenahalli, Yelahanka, Kattigenahalli, Bengaluru, Karnataka, India Bangalore ----- --- ----- 2)Mr. Mohamed Abdul Kader Jailani Address of Applicant :School of Computing and Information Technology, REVA University, Kattigenahalli, Yelahanka, Bengaluru, Karnataka, Indi Bangalore ----- -----

(57) Abstract :

Abstract The Objective of the proposed work is to recommend the indoor air quality using machine learning . Nowadays it is most alarming that indoor air quality has deteriorated due to poor inadequate ventilation by not letting enough outdoor air to dilute emissions from indoor sources and by not letting out indoor air which contain pollutants. Due to climate change , high temperature and humidity levels in most part of the country , it increases concentrations of the air pollutants. The major causes of indoor air pollution is due to fuel-burning combustion appliances, building construction dusts and etc. The recommender system analyzes air quality histories and/or other types climate data of environment on an aggregated basis to detect and recommend air quality . The detected air quality associations are stored in a mapping structure that maps air quality from stations to related stations, and is used to recommend air quality to users. The air quality includes AQI (Air Quality Index, climate data such as temperature, humidity...etc).

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : IoT-driven Platform that uses Augmented Reality Exergaming to Assess Physical and Mental Activates

(51) International classification :A61B0005000000, G16H0040630000, A63F0013350000, A63F0013460000, A61B0005024000

(86) International Application No :PCT// /

Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Ms.S.Ramya, SRM Institute of Science and Technology
Address of Applicant :Research scholar, Department of Computational Intelligence SRM Institute of Science and Technology, Kattankulathur,Chennai Kattankulathur -----

--

2)Dr. Shajahan Basheer, Galgotias University

3)Dr.V.Vignaraj Ananth, HCL Technologies, Chennai

4)Dr.M.Kumaresan, Jain Deemed-to-be University

5)D.Santhakumar, CK College of Engineering & Technology

6)Dr.T.Manikandan, Galgotias University

7)Ms. Jyotsna.E, Jawaharlal College of Engineering and Technology

8)Mr. Siva Rama Lingham N, Vel Tech Rangarajan Dr. Sagunthala R&D Institute Of Science And Technology

9)Mr.S.Sreeji, Galgotias University

10)Mr.Janarthanan.S, Galgotias University

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ms.S.Ramya, SRM Institute of Science and Technology
Address of Applicant :Research scholar, Department of Computational Intelligence SRM Institute of Science and Technology, Kattankulathur,Chennai Kattankulathur -----

--

2)Dr. Shajahan Basheer, Galgotias University
Address of Applicant :Professor, School of Computing Science and Engineering Galgotias University, Greater Noida, Uttar Pradesh, India. Greater Noida -----

3)Dr.V.Vignaraj Ananth, HCL Technologies, Chennai
Address of Applicant :Technical Manager, Data Engineering, HCL Technologies, Chennai. Chennai -----

4)Dr.M.Kumaresan, Jain Deemed-to-be University
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Jain Deemed-to-be University, Faculty of Engineering & Technology 45th km, NH - 209, Jakkasandra Post Bangalore - Kanakapura Main Road Ramanagara District - 562 112. Bangalore -----

5)D.Santhakumar, CK College of Engineering & Technology
Address of Applicant :Associate Professor, Computer Science & Engineering, CK College of Engineering & Technology, Cuddalore. Cuddalore -----

6)Dr.T.Manikandan, Galgotias University
Address of Applicant :Associate Professor, School of Computing Science and Engineering, Galgotias University, Greater Noida, Uttar Pradesh, India. Greater Noida -----

7)Ms. Jyotsna.E, Jawaharlal College of Engineering and Technology
Address of Applicant :Assistant Professor, Computer Science and Engineering, Jawaharlal College of Engineering and Technology, Jawahar Gardens, Lakkidi Perur, Palakkad, Kerala Palakkad -----

8)Mr. Siva Rama Lingham N, Vel Tech Rangarajan Dr. Sagunthala R&D Institute Of Science And Technology
Address of Applicant :Assistant Professor, Department Of Computer Science And Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute Of Science And Technology Avadi, Chennai - 600 062. Chennai -----

9)Mr.S.Sreeji, Galgotias University
Address of Applicant :Assistant Professor, School of Computing Science and Engineering, Galgotias University, Greater Noida, Uttar Pradesh, India. Greater Noida -----

10)Mr.Janarthanan.S, Galgotias University
Address of Applicant :Assistant Professor, School of Computing Science and Engineering, Galgotias University, Greater Noida, Uttar Pradesh, India. Greater Noida -----

(57) Abstract :

Modern information systems and applications demand enhanced features for user involvement and monitoring, and augmented reality (AR) and the Internet of Things (IoT) are among the fundamental technological pieces. These technologies are constantly evolving and are currently accessible in all major programming environments and platforms, enabling for widespread use in a variety of business and academic applications. AR is widely used in the creation of exergames in the sectors of healthcare and supported living, supporting the deployment of creative gamification approaches, while IoT may effectively support the users' health monitoring aspects. For the creation of serious games in the healthcare arena, we offer a prototype platform for exergames that integrates AR and IoT on service mobile devices. The solution's major goal was to encourage users to employ gamification techniques to increase their physical activity and to aid in the frequent assessment of their health and cognitive statuses through challenges and quests in the virtual and real world. The platform can monitor players' bio signals and actions in real time throughout the game, gathering data for each session that can be examined afterward by healthcare specialists, the platform's design integrates of sensors and wearable devices. The solution was tested in real-world circumstances, with the findings studied to enhance the prototype's performance and usability. A core feature of the system is integration with wearables for capturing activity and bio signal measurements.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241030388 A

(19) INDIA

(22) Date of filing of Application :27/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : BI-SYMMETRICAL WEB FLOW THERMAL ABSORBER FOR PHOTOVOLTAIC THERMAL SYSTEM

(51) International classification	:H02S0040440000, F24S0010500000, F23N0005000000, F28F0013000000, B33Y0080000000	(71)Name of Applicant : 1)VIT UNIVERSITY Address of Applicant :VIT University, Near Katpadi Road, Vellore, Tamil Nadu, India - 632014 Vellore -----
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)Dr. Y. Raja Sekhar Address of Applicant :School of Mechanical Engineering, GIS lab, Room No. 105, CDMM. VIT University, Vellore-632014 Vellore -----
(61) Patent of Addition to Application Number	:NA	2)Mr. V. Tirupati Rao Address of Applicant :School of Mechanical Engineering, GIS lab, Room No. 105, CDMM. VIT University, Vellore-632014 Vellore -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Bi-symmetrical web flow thermal absorber for photovoltaic thermal system. The thermal absorber (100) comprises a single inlet (110) and an outlet (120) to attain uniform cooling rates of the PVT system (200) enabling reliable power output for all season conditions. The thermal absorber (100) comprises a base plate (130) that is operatively configured with at least two bi-symmetrical web flow designs (1 and 4, 2 and 3) that are operatively connected to the single inlet (110) and outlet (120).

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241030766 A

(19) INDIA

(22) Date of filing of Application :30/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MANUFACTURE OF RUBCRETE SLAB

(51) International classification :C04B0018220000, E01C0007260000, C08J0011100000, E01C0011000000, C04B0014020000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA, PIN CODE-641032. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. P. SUBASHREE Address of Applicant :ASSOCIATE PROFESSOR/CIVIL, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA, PIN CODE-641032. --- ----- 2)Dr. K. AKIL Address of Applicant :PROFESSOR & HEAD/CIVIL, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA, PIN CODE-641032. --- -----

(57) Abstract :

Rubberized concrete (Rubcrete) is created from scrap rubber tyres with partial replacement of fine aggregates by crumb rubber. Waste rubber tyres are harmful to the environment and it is estimated that only 4% is used in civil engineering applications. As fine aggregates are available in limited quantity, waste tyres can be utilized for partial replacement of fine aggregates in concrete. Preliminary concrete properties with partial replacement of fine aggregates by pre-treated crumb rubber in amounts of 10%, 15%, and 20% of the total weight of fine aggregates and addition of rubber fibres in proportions of 1%, 1.5% and 2% of the total weight of coarse aggregates were examined for M25 grade concrete. Rubberized concrete specimens were tested for workability, compressive strength, split tensile strength and flexural strength. Optimum percentage of fine aggregate replacement with crumb rubber and optimum proportion of rubber fibres were arrived. With the optimum values arrived, specimens of size 300mm x 300mm x 50mm was cast and tested for impact load. The number of blows required for the first crack and total slab collapse was determined. The characteristics were investigated. Hybrid rubberized concrete slab made of two layers, with rubber concrete on top and normal concrete at the bottom was investigated. Rubber concrete is used as the top layer as it absorbs more impact energy and conventional concrete is used as the bottom layer as it has better tensile strength. The energy absorption and ductility index of hybrid rubberized concrete slabs were found to be higher and showed better results. This hybrid rubberized concrete can be used where concrete surfaces are subjected to high impact loads such as roads, machine floors, etc. thereby improving the quality and performance of the surfaces. This reduces the risk of accidents also.

No. of Pages : 5 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202241030782 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : MACHINE LEARNING BASES APPROACH TO ANALYZE THE IMPORTANCE OF FUNCTIONALITIES OF VARIOUS NANOPARTICLES IN THE FIELD OF MEDICINE

(51) International classification :G06N0020000000, A61K0009510000, A61K0031555000, A61K0033240000, A61K0047320000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SUJITH RAVI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY, SRM MEDICAL COLLEGE HOSPITAL AND RESEARCH CENTRE, FACULTY OF MEDICINE AND HEALTH SCIENCES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR- 603203 Chengalpattu -----
2)DR. KAKITHAKARA VAJRARELU LEELA
3)DR ANUSHA GOPINATHAN
4)SHWETA SAGAR NAIK
5)MAHESWARY DATCHANAMOORTHY
6)DR R. ISHWARYA
7)DR. C. KAVIYASRI SUJITH
8)DR. HARISHCHANDER ANANDARAM
9)CHANDAN KUMAR SINGH
10)SHUBHAM TRIPATHI
11)DEEPTI DWIVEDI
12)JYOTI PRAKASH DHAL
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)SUJITH RAVI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY, SRM MEDICAL COLLEGE HOSPITAL AND RESEARCH CENTRE, FACULTY OF MEDICINE AND HEALTH SCIENCES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR- 603203 Chengalpattu -----
2)DR. KAKITHAKARA VAJRARELU LEELA
Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF MICROBIOLOGY, SRM MEDICAL COLLEGE HOSPITAL AND RESEARCH CENTRE, FACULTY OF MEDICINE AND HEALTH SCIENCES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR - 603203. Chengalpattu -----
3)DR ANUSHA GOPINATHAN
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MICROBIOLOGY, SRM MEDICAL COLLEGE HOSPITAL AND RESEARCH CENTRE, FACULTY OF MEDICINE AND HEALTH SCIENCES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR - 603203 Chengalpattu -----
4)SHWETA SAGAR NAIK
Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SRM MEDICAL COLLEGE HOSPITAL AND RESEARCH CENTRE, FACULTY OF MEDICINE AND HEALTH SCIENCES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR - 603203 Chengalpattu -----
5)MAHESWARY DATCHANAMOORTHY
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY, SRM MEDICAL COLLEGE HOSPITAL AND RESEARCH CENTRE, FACULTY OF MEDICINE AND HEALTH SCIENCES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR - 603203 Chengalpattu -----
6)DR R. ISHWARYA
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY, SRM MEDICAL COLLEGE HOSPITAL AND RESEARCH CENTRE, FACULTY OF MEDICINE AND HEALTH SCIENCES, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, SRM NAGAR, KATTANKULATHUR-603203 Chengalpattu -----
7)DR. C. KAVIYASRI SUJITH
Address of Applicant :CONSULTANT DENTIST, VEE YES DENTAL HOSPITAL, SATHY ROAD, NEAR RAMAKRISHNA MILL, RAMAKRISHNA PURAM, GANAPATHY, COIMBATORE - 641006. Coimbatore -----
8)DR. HARISHCHANDER ANANDARAM
Address of Applicant :ASSISTANT PROFESSOR, CENTRE FOR EXCELLENCE IN COMPUTATIONAL ENGINEERING AND NETWORKING, AMRITA VISHWA VIDYAPEETHAM, COIMBATORE -641112. Coimbatore -----
9)CHANDAN KUMAR SINGH
Address of Applicant :ASSISTANT PROFESSOR, FACULTY OF PHARMACEUTICAL SCIENCES, RAMA UNIVERSITY Kanpur -----
10)SHUBHAM TRIPATHI
Address of Applicant :ASSISTANT PROFESSOR, CITY SCHOOL OF PHARMCY, LAKSHBAR VAJAH, BARABANKI Barabanki -----
11)DEEPTI DWIVEDI
Address of Applicant :INSTITUTE OF PHARMACY-DR RAM MANOHAR LOHIA AVADH UNIVERSITY Ayodhya -----
12)JYOTI PRAKASH DHAL
Address of Applicant :DEPARTMENT OF CHEMISTRY, ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH, BHUBANESWAR Khordha -----

(57) Abstract :
Machine Learning based approach to analyze the Importance of functionalities of Various Nanoparticles in the Field of Medicine is the proposed invention. The invention focuses on implementing a framework of machine learning to analyze the properties of Nanoparticles. The invention aims at studying the medicinal benefits of Nanoparticles in the delivery of drug molecules.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202241030795 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : EFFECTS OF HYGROTHERMAL AGEING ON MECHANICAL PROPERTIES OF NFRC

(51) International classification :G01N0003080000, G01N0003000000, G01N0033440000, G01N0017000000, C08L0023020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. GOPINATHAN. V. T
Address of Applicant :PROFESSOR & HEAD /AERO, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----

2)Mr. ARUN RAJA. K. K
Address of Applicant :ASSISTANT PROFESSOR/ AERO, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----

3)Mr. V. SARAVANAKUMAR.V
Address of Applicant :ASSISTANT PROFESSOR/ AERO, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----

4)Mr. TAMILVENDAN D
Address of Applicant :ASSISTANT PROFESSOR/ AERO, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----

5)GURU PRASHANT M
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

6)K ANAGHA UDAYAKUMAR
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

7)RAJALAKSHMI S
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

8)SANTHINI M
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

(57) Abstract :

Fibre reinforced polymers (FRP) have gained prominence in recent years in the construction, automobile and particularly in Aerospace industries. As the world moves closer to sustainable solutions for the future the focus on Natural Fibre Composites has increased due to their biodegradable properties and environmentally friendly nature. Often they have to withstand harsh environmental conditions, especially in marine and offshore environments, moisture or direct water contact leads to water absorption into the composite and subsequent degradation of the composite structure. When water molecules are absorbed in the composite it separates the matrix and resin bonding as the resin is of a hydrophobic nature while the matrix is hydrophilic. As a result, the mechanical properties change during application. The aim of this work is to study the effect of hygrothermal ageing on mechanical properties of Flax Fibre composites. The specimens are manufactured using Compression Moulding Technique. The virgin sample is tested for base figures of Tensile and Flexural strength while another sample is subjected to moisture and heat in a controlled ageing chamber for 7 days. The kinetic of moisture absorption is noted and plotted. To measure absorption the virgin sample is weighed and subsequently at an interval of 24 hrs the sample is weighed for 7 days. Tensile and Flexural properties are measured for the samples and the changes are studied and reasoned for. The Tensile test is carried out using an Universal Testing Machine and Flexural test is performed using the 3 - Point Flexural test. The damage is analyzed using a Scanning Electron Microscope to find reasons for defects and damages. This is studied to understand how exposure to moisture affects-the structure of the composite and recommend solutions to prevent the same.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241030796 A

(19) INDIA

(22) Date of filing of Application :30/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DIAGNOSTICS AND TREATMENT HELP TO PATIENTS AT REMOTE LOCATION USING EDGE AND FOG COMPUTING

(51) International classification :H04L0029080000, G06K0009620000, H04N0007180000,
H04L0012240000, G16H0080000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Md. RAZIA ALANGIR BANU
Address of Applicant :ASSISTANT PROFESSOR, MRITS, SECUNDERBAD -----
2)Dr. A. S. GOUSIA BANU
3)Dr. J. ANITHA JOSEPHINE
4)Dr. MANOJ L. BANGARE
5)Dr VIVEK V JOG
6)THATTARI SRIKANTH
7)Dr. SUNIL M SANGVE
8)Dr. SUJATA S. AGRAWAL
9)MILIND K WASEKAR
10)Dr. MANISH HIRALAL ATTAL
11)Dr. G. RADHA DEVI
12)Dr. T. SUNIL
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Md. RAZIA ALANGIR BANU
Address of Applicant :ASSISTANT PROFESSOR, MRITS, SECUNDERBAD -----
2)Dr. A. S. GOUSIA BANU
Address of Applicant :PROFESSOR, NARASIMHA REDDY ENGINEERING COLLEGE,
SECUNDERBAD -----
3)Dr. J. ANITHA JOSEPHINE
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING, NARASIMHA REDDY ENGINEERING COLLEGE, SECUNDERBAD -----
4)Dr. MANOJ L. BANGARE
Address of Applicant :ASSOCIATE PROFESSOR, Smt. KASHIBAI NAVALE COLLEGE OF
ENGINEERING, PUNE, COLLEGE ADDRESS: DEPARTMENT OF IT, S.N. 44/1, OFF SINHGAD ROAD,
VADGAON BUDRUK, PUNE, 411046. -----
5)Dr VIVEK V JOG
Address of Applicant : ASSOCIATE PROFESSOR, DON BOSCO COLLEGE OF ENGINEERING, OFF
MURIDA ROAD, FATORDA, MARGAO, GOA -----
6)THATTARI SRIKANTH
Address of Applicant :ASSISTANT PROFESSOR, CMR TECHNICAL CAMPUS, UGC AUTONOMOUS,
KANDLAKOYA, MEDCHAL ROAD, HYDERABAD-501401 -----
7)Dr. SUNIL M SANGVE
Address of Applicant :PROFESSOR, JAYAWANT SHIKSHAN PRASARAK MANDAL'S RAJARSHI
SHAHU COLLEGE OF ENGINEERING , PUNE -----
8)Dr. SUJATA S. AGRAWAL
Address of Applicant : PROFESSOR, SINHGAD ACADEMY OF ENGINEERING, SAE KONDHWA,
PUNE -----
9)MILIND K WASEKAR
Address of Applicant :RESEARCH SCHOLAR, COLLEGE OF ENGG, SHIVAJI NAGAR, PUNE -----

10)Dr. MANISH HIRALAL ATTAL
Address of Applicant :ASSISTANT PROFESSOR, SKN SINHGAD INSTITUTE OF TECHNOLOGY AND
SCINECE, SINHGAD CAMPUS, KUSGAON, LONAVLA, MAHARASHTRA, 410401 -----
11)Dr. G. RADHA DEVI
Address of Applicant :ASSISTANT PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, MALLA
REDDY COLLEGE OF ENGINEERING, SECUNDERBAD -----
12)Dr. T. SUNIL
Address of Applicant : PROFESSOR, CSE, MRCE, SECUNDERBAD -----

(57) Abstract :
--In--eur-r-en-t--day--seenar-io--t-t--is--very--rnpportarrt--to- see-that-dtagnosts--a7Td treatment happens at the location where the patient is available. The framework designed is to see that a provision is made to reach the patient in the remote location and to see that the patient is monitored 24/7 by making use of the technology like the fog and edge computing. The basic idea is to see that the patient is monitored all time with the assistance of the fog computing and edge computing, where a 11 the required devices like the sensors will be connected to the patient in order to monitor and based on the data captured by the various sensors. This data which is captured by the various sensors will be the input for the edge computers and then after performing the process of filtration the data is then sent to the fog systems where again the process of filtration happens and ultimately the data is sent to the cloud server. Here the basic use of the edge computing is to get the data from the sensors and other devices which are used to monitor the patient and then To send the same to fog computers care is taken to see that the required treatment is also provided to the patient in case of any emergency. The basic advantage is that the required data will be sent to the cloud server where by the traffic is controlled and reduced. Edge computing helps devices to get faster results by processing the data simultaneously received from the devices. Fog computing helps in filtering important information from the massive amount of data collected from the device and saves it in the cloud by sending the f i l t e r e d data. Computation takes place at the edge of a device's network, which is known as edge computing. That means a computer is connected with the network of the device, which processes the data and sends the data to the cloud in real-t ime. Here we also make use of the concept of Internet of Things which will be used in order to connect the devices to the patient and to capture the data from those devices. All the sensors used will be connected to -the-edgesystem--ancrttren-a'f'ter colTecTing and-TiTrat ion ot data, Ft-will be sent to fog computer. The data collected at edge will be localized and based on the need the data will be escalated to the fog system for further processing and finally will be sent to the cloud server. The overall concept is to see that the traffic on the cloud is reduced.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202241030799 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A MACHINE LEARNING BASED APPROACH TO ANALYSE THE POSITIVE TRAITS OF CARBON NANOTUBES IN REPLACING SILICON IN MICROCHIPS

(51) International classification :G06N0020000000, B82Y0030000000, H01L0021768000, G06K0009620000, G05B0013040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)ANAND DEVA DURAI C
Address of Applicant :ASSISTANT PROFESSOR, COLLEGE OF COMPUTER SCIENCE, KING KHALID UNIVERSITY, ABHA -----
2)PRAVEEN KUMAR YADAW
3)CHANDRASHEKHAR KURRE
4)RAM KRISHNA DESHMUKH
5)DR. NOOR MOHAMMED
6)SAURABH SHARMA
7)VISHAL PARANJAPE
8)SAURABH KAPOOR
9)RAJENDRA VITTHAL SAWANT
10)RANJIT KUMAR PUSE
11)PRIYANKA CHAWLA
12)RISHI DEWAN
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)ANAND DEVA DURAI C
Address of Applicant :ASSISTANT PROFESSOR, COLLEGE OF COMPUTER SCIENCE, KING KHALID UNIVERSITY, ABHA -----
2)PRAVEEN KUMAR YADAW
Address of Applicant :RESEARCH SCHOLAR, SCHOOL OF ENGINEERING AND TECHNOLOGY, ISBM UNIVERSITY Gariaband -----
3)CHANDRASHEKHAR KURRE
Address of Applicant :ASSISTANT PROFESSOR, MECHANICAL, SCHOOL OF ENGINEERING & TECHNOLOGY, ISBM UNIVERSITY, KOSMI NAWAPARA, CHHURA, DISTRICT- GARIYABAND (CHHATTISGARH), 493996 Gariaband -----
4)RAM KRISHNA DESHMUKH
Address of Applicant :RESEARCH SCHOLAR /DEPT. OF PHYSICS /ISBM UNIVERSITY, BK- CHHURA, DIST- GARIYABAND, CG, INDIA - 493996 Gariaband -----
5)DR. NOOR MOHAMMED
Address of Applicant :ASST. PROFESSOR AND HEADDEPARTMENT OF CHEMISTRY, BAPUMIYA SIRAJODDIN PATEL ARTS COMMERCE AND SCIENCE COLLEGE PIMPALGAON KALE Buldhana -- -----
6)SAURABH SHARMA
Address of Applicant :ASSISTANT PROFESSOR,GLOBAL NATURE CARE SANGATHAN'S GROUP OF INSTITUTIONS, FACULTY OF ENGINEERING AND MANAGEMENT (AFFILIATED TO RGPV BHOPAL, RDVV JABALPUR), GLOBAL SQUARE, PATAN BYPASS, RAIGWAN, JABALPUR, MADHYA PRADESH 482002 Jabalpur -----
7)VISHAL PARANJAPE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, GLOBAL NATURE CARE SANGATHAN'S GROUP OF INSTITUTIONS, FACULTY OF ENGINEERING AND MANAGEMENT (AFFILIATED TO RGPV BHOPAL, RDVV JABALPUR), GLOBAL SQUARE, PATAN BYPASS, RAIGWAN, JABALPUR, MADHYA PRADESH 482002 Jabalpur - -----
8)SAURABH KAPOOR
Address of Applicant :ASSISTANT PROFESSOR,GLOBAL NATURE CARE SANGATHAN'S GROUP OF INSTITUTIONS, FACULTY OF ASSISTANT PROFESSOR, DEPARTMENT OF CSE, ENGINEERING AND MANAGEMENT (AFFILIATED TO RGPV BHOPAL, RDVV JABALPUR), GLOBAL SQUARE, PATAN BYPASS, RAIGWAN, JABALPUR, MADHYA PRADESH 482002 Jabalpur -----
9)RAJENDRA VITTHAL SAWANT
Address of Applicant :DEPARTMENT OF CHEMISTRY, DAHIWADI COLLEGE, DAHIWADI-415508 Satara -----
10)RANJIT KUMAR PUSE
Address of Applicant :ASSISTANT PROFESSOR, PHYSICAL SCIENCE-CHEMISTRY, RABINDRANATH TAGORE UNIVERSITY,BHOPAL,464993 Bhopal -----
11)PRIYANKA CHAWLA
Address of Applicant :LOVELY PROFESSIONAL UNIVERSITY, PUNJAB. Kapurthala -----
12)RISHI DEWAN
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ENGINEERING, UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN, 248007 Dehradun -----

(57) Abstract :
A machine learning based approach to analyse the positive traits of carbon nanotubes in replacing silicon in microchips is the proposed invention. The invention focuses on designing a framework of machine learning, where the properties of both silicone and carbon nanotubes are analysed. The invention finds ways and possibilities for replacing silicon by carbon nanotubes in microchips.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241030809 A

(19) INDIA

(22) Date of filing of Application :30/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN ANTIBACTERIAL COMPOSITION COMPRISING NUTMEG KERNEL EXTRACTION

(51) International classification :A61K0036185000, C11B0009020000, C11B0003140000, C11B0001040000, A61K0036470000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr. RAJNI KUMARI Address of Applicant :NAVODAYA DENTAL COLLEGE AND HOSPITAL, RAICHUR, KARNATAKA, INDIA, PIN CODE - 584103. ----- 2)Dr. VINOD KUMAR Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. RAJNI KUMARI Address of Applicant :NAVODAYA DENTAL COLLEGE AND HOSPITAL, RAICHUR, KARNATAKA, INDIA, PIN CODE - 584103. ----- 2)Dr. VINOD KUMAR Address of Applicant :NAVODAYA DENTAL COLLEGE AND HOSPITAL, RAICHUR, KARNATAKA, INDIA, PIN CODE - 584103. -----

(57) Abstract :

The present invention relates to a process for the preparation of antibacterial composition comprising nutmeg oil extraction, the nutmeg oil was extracted using hydro distillation or Steam distillation.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241030810 A

(19) INDIA

(22) Date of filing of Application :30/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SUBSTITUTION CIPHER INSPIRED BY SNAKE AND LADDERS GAME WITH A COVERT KEY COMMUNICATION CHANNEL

(51) International classification :H04L0009080000, H04L0029060000, H04K0001020000, H04L0009320000, H04N0021254000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)S. ARIVAZHAGAN

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI - 626 005 --

2)W. SYLVIA LILLY JEBARANI

3)S.T. VEENA

4)N. SIVASANKARI

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)S. ARIVAZHAGAN

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI - 626 005 --

2)W. SYLVIA LILLY JEBARANI

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI - 626 005. -

3)S.T. VEENA

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI - 626 005 --

4)N. SIVASANKARI

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI - 626 005 --

(57) Abstract :

Session keys which provide almost perfect secrecy need to be computed every time by transmitter and receiver when they want to involve in a secret communication. Session keys in a practical scenario depend on asymmetric key mechanisms which involve considerable complexity. Session keys if computed in a simple way and employed in a simple fashion save a lot of computational power with an additional concern of not compromising the security provided by session keys. Session key communication is also an issue to be addressed. In this invention, the channel for key communication is provided in a covert fashion by employing steganographic procedures accomplishing a balance between computational complexity and secrecy.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241030822 A

(19) INDIA

(22) Date of filing of Application :30/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : RED RASPBERRY LEAF EXTRACT GEL

(51) International classification :A61K0009000000, A61K0031050000, A61K0038390000, A61L0031000000, A61K0031714000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SNEHA SATHISH

Address of Applicant :40, FLAT NO. S4, SRI-NIVASAM FLATS, 4TH MAIN ROAD, INDIAN BANK COLONY, AMBATTUR, CHENNAI-600053. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SNEHA SATHISH

Address of Applicant :40, FLAT NO. S4, SRI-NIVASAM FLATS, 4TH MAIN ROAD, INDIAN BANK COLONY, AMBATTUR, CHENNAI-600053. -----

(57) Abstract :

Recurrent aphthous stomatitis (RAS) belongs to the group of chronic, inflammatory, ulcerative diseases of the oral mucosa characterized by painful, recurrent, single or multiple ulcerations. Though not life threatening, RAS adversely affects the quality of life. A multitude of treatment modalities are available, yet the therapies administered are only palliative, reducing the severity of symptoms but not promoting complete ulcer healing. Hence a substantial need exists for an effective agent that can promote complete ulcer healing within a short period of time. There is a constant increase in popularity and interest over the last few decades regarding research of herbal preparations for various diseases as they are natural and more biocompatible. One such preparation is the leaf extract of red raspberry consisting mainly of phenolic compounds which contribute to the antioxidant, anti-inflammatory, anti-proliferative and anti-apoptotic properties of these leaves. As there are no studies conducted so far on the efficacy of this leaf extract on recurrent aphthous ulcers to the best of my knowledge, this gel will be the first of its kind to promote faster pain relief and quicker healing of the ulcer.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202241030831 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : IDENTIFICATION OF CADAVER USING FORENSIC ODONTOLOGY

(51) International classification :G06K0009000000, G06N0003040000, G06K0009620000, G06T0005400000, G06T0005000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)THE PRINCIPAL, MEPCO SCHLENK ENGINEERING COLLEGE SIVAKASI Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE(PO), SIVAKASI, TAMILNADU, INDIA, 626005 ---- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. B. VIJAYAKUMARI Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE(PO), SIVAKASI, TAMILNADU, INDIA, 626005 ----- 2)Dr. V. S. BENITHA Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE(PO), SIVAKASI, TAMILNADU, INDIA, 626005 ----- 3)Mrs. R. BRINDA Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE(PO), SIVAKASI, TAMILNADU, INDIA, 626005 -----

(57) Abstract :

Our invention cadaver identification is an essential task in mass disaster and forensic odontology. Deep learning contributes an inevitable role in the field of automatic human identification. Several automatic dental identification systems have been proposed, still accurate and fast identification from dental radiographs remains a challenging issue. In this invention, an automatic human identification system was developed using the customized Convolutional Neural Network with Tensor Flow tool package to detect individual teeth structure from dental radiographs for human identification. The images were preprocessed by affine transformation, adaptive median filter and contrast limited adaptive histogram equalization. The network is fed with 224x224 sized various square patches as input from original images. The conception of patches shows the teeth of both maxilla1 and mandible contribute to human identification. The proposed model achieved 99.15% accuracy for Genuine matching and an overall loss of 0.07807. The acquired results demonstrate that human identification is achieved using dental radiographs by CNN with high accuracy and speed. It is expected to assist human identification in situations of mass disaster and criminal investigations. In the era of fast-growing technology, fingerprints used for authentication can also be forged. Hence, this invention can also be used for surveillance and authentication of persons.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : PRO-SILK

(51) International classification :A61K0035644000, A61K0009510000, A61P0031040000, A61K0009000000, A61Q0011000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCE Address of Applicant :NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1) DR. JONUA DAVID FERNANDES Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. ----- 2)DR. SUBHASHREE ROHINIKUMAR Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. ----- 3) DR. DEEPAK NALLASAMY VEERAIYAN Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, NO. 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMIL NADU, INDIA-600077. -----

(57) Abstract :

Aim: To synthesize a novel preparation of propolis based zinc nanoparticles and to check for its antimicrobial potential as a coating on the surface of sutures. **Materials and Methods:** This study was conducted in the Nanotechnology lab of Saveetha Dental College, Chennai. Propolis based zinc nanoparticles were prepared by the green synthesis technique. A propolis extract was prepared and combined along with zinc metal solution for the preparation of the nanoparticles. The nanoparticles were coated on the surface of silk sutures. The sutures were autoclaved and then subjected to antimicrobial testing against Lactobacillus, Streptococcus mutans, Candida albicans and Enterococcus faecalis **Results:** Antimicrobial potential of the coated sutures was noted by the identification of a zone of inhibition around the piece of suture thread which showed their antimicrobial efficacy against Lactobacillus, Streptococcus mutans, Candida albicans and Enterococcus faecalis. The formation of nanoparticles was confirmed by UV-vis spectroscopy and TEM analysis which showed the presence of spherical shaped nanoparticles seen with particle size ranging 10-60 nm. **Conclusion:** The propolis based ZnNPs used as a coating over silk sutures shows good antimicrobial potential to prevent suture site infections especially post surgery in the oral cavity.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202241030863 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : CHITO-GIN GEL

(51) International classification :A61K0036906800, A61L0031100000, A61K0009000000, A61K0009480000, A61K0047690000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCE

Address of Applicant :162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. GUY PATRICK SANDOU

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

2)DR. SUBHASHREE ROHINIKUMAR

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

3)DR. DEEPAK NALLASAMY VEERAIYAN

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

(57) Abstract :

ABSTRACT: Peri-implant diseases are pathological inflammatory conditions affecting the tissue surrounding a load-bearing system and are induced by a commensal bacterial biofilm. Various therapeutic techniques (mechanical, chemical, physicochemical, etc.) for peri implantitis have been published in the literature in recent years. Nanotechnology and Nanoparticles (NPs) are used in many aspects of dentistry. Plant extracts are a natural source of antibiotics that have received a lot of interest recently because of their inexpensive cost of manufacture and good biocompatibility. Ginger (Zingiber officinale) has been proven to have therapeutic properties due to its active phenolic components.

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2022

(21) Application No.202241030866 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : GSN SUTURE

(51) International classification :A61K0036906800, B82Y0030000000, A61K0047690000, A61L0017080000, B82Y0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCE

Address of Applicant :162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. GUY PATRICK SANDOU

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

2)DR. SUBHASHREE ROHINIKUMAR

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

3)DR. DEEPAK NALLASAMY VEERAIYAN

Address of Applicant :SAVEETHA DENTAL COLLEGE AND HOSPITAL, 162, POONAMALLEE HIGH ROAD, VELAPPANCHAVADI, CHENNAI, TAMILNADU, INDIA 600077. -----

(57) Abstract :

ABSTRACT: Nanotechnology and Nanoparticles (NPs) are used in many aspects of dentistry. Plant extracts are a natural source of antibiotics that have received a lot of interest recently because of their inexpensive cost of manufacture and good biocompatibility. Ginger (*Zingiber officinale*) has been proven to have therapeutic properties, due to its active phenolic components. Ginger silver nanocomposite (GSN) on catgut suture has been proposed for effective and superior wound healing in dentistry especially in peri-implantitis.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202241031050 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN AND FABRICATION OF TWO AXIS FABRICATION TABLE

(51) International classification :B29C0064386000, H01L0027146000, H01L0021033000, B22F0003105000, H01Q0001380000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. K. SIVA Address of Applicant :PROFESSOR & HEAD/MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 2)C. A. JAGADISH Address of Applicant :ASSOCIATE PROFESSOR/ MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 3)RAJ MOHAN P Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 4)RAGUL N Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 5)RAHUL. G Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 6)RANJITH P Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

(57) Abstract :

The design and implementation of Two axis welding and fabrication table by using two electric motors, with accuracy and high payload is the main objective. The system operates with two electrical motor and electrical energy with high energy efficient. Here two minimum parts that are Main shaft and the Chuck are used. One end of the Main shaft have 4inch Sprocket which is connected to the gearbox sprocket through Chain. The chuck has four bolt and nut, it will be holding the job to be weld. The aim is to create a 2 - axis degree rotary turn fabrication table and also to making high accuracy products by using welding process by numerical control principle which is highly accuracy in all axis. Also, two D.C motors are controlled by the switches along with control unit. To rotate . the chuck on the table top welding turntable, a geared motor arrangement is used. This motorized chuck is mounted on a horizontally-movable arrangement to keep ' the work in a suitable position for welding and cutting operations.

No. of Pages : 5 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202241031100 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : MULTIPLE INDEPENDENT CHARGING SYSTEM FOR E VEHICLES

(51) International classification :H02J0007000000, H02J0007350000, B60L0050600000, B60L0053300000, B60L0058120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. KALYANA KIRAN KUMAR

Address of Applicant :Professor, Department Of Electrical and Electronics Engineering, Aditya Institute of Technology and Management(Autonomous) kottur, Tekkali, Srikalulam District, Andhra Pradesh, India 532201 -----

2)Dr. PRAMOD KUMAR GOUDA

3)Dr. BUDI SRINIVASA RAO

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. KALYANA KIRAN KUMAR

Address of Applicant :Professor, Department Of Electrical and Electronics Engineering, Aditya Institute of Technology and Management(Autonomous) kottur, Tekkali, Srikalulam District, Andhra Pradesh, India 532201 -----

2)Dr. PRAMOD KUMAR GOUDA

Address of Applicant :Professor, Department Of Electrical and Electronics Engineering, Aditya Institute of Technology and Management(Autonomous) kottur, Tekkali, Srikalulam District, Andhra Pradesh, India 532201 -----

3)Dr. BUDI SRINIVASA RAO

Address of Applicant :Assistant Professor, Department Of Electrical and Electronics Engineering, Aditya Institute of Technology and Management(Autonomous) kottur, Tekkali, Srikalulam District, Andhra Pradesh, India 532201 -----

(57) Abstract :

The present invention is an E Vehicles comprising of; a battery control unit; a charging module; a processor integrated with software to assign the multiple batteries for multiple specific functions. The battery control unit of the said electronic device monitors the battery level, assign the batteries for the tasks and ensures the assigned operations of the battery are functioning as assigned. The charging module consists of a number of charging ports to charge the batteries of the said electronic device. Thus, to overcome the drawbacks of the prior art ie., an E Vehicles with only one battery assigned for all the functions.

No. of Pages : 11 No. of Claims : 10

(54) Title of the invention : DESIGN AND FABRICATION OF LIFTING ARRANGEMENTS IN TRAINS

(51) International classification :B66B0009020000, F16B0033020000, G09B0019000000, B61K0005060000, G99Z0099000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Hindusthan College of Engineering and Technology

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr.K.Siva

Address of Applicant :Professor& Head /Mech, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

--

2)Mr. S.Vidya Prakash

Address of Applicant :Assistant Professor /Mech, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

--

3)KALAISELVAN P

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

4)KANNAN S

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

5)KARTHICK R P

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

6)MAHESH KANNAN R

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

(57) Abstract :

When one talks of trains in India, the image that strikes the mind is that of a locomotive hauling the coaches Concept of Multi-Unit Distributed traction i.e. train-set is not heard in Indian Railways for Main line train operations. It has been decided to Manufacture World Class Train-sets in India. The train travellers are exposed to many physical health problems during travelling on climbing to the their berth (eg; pain in joints, backbone, etc.,). Many physically challenged, elderd, women and others facing many problems during train' travelling. The focus of present work was at designing a elevator come table for the enhancement of independence and quality travel of disabled and elderly persons. Further work presents an overall product design and development phases of elevator. In this system we are going to use a lead screw mechanism for lifting the seat, lead screw turns rotator motion into linear motion combining a screw and a nut where the screw thread is indirect contact with the nut thread. Incase of roller screws, the rollers rather than nut are in direct contact with the screw thread offering great efficiency. The major contributions of paper work can be summarized as modelling and fabrication of a proposed Elevator and testing it in a real time constraints with load application.

No. of Pages : 4 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031114 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMART WEARABLE SLEEPWALKING ALERT SYSTEM

(51) International classification :G08B0021040000, A61B0005110000, G08B0015000000, B64D0045000000, G08B0003100000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Vels Institute of Science, Technology and Advanced Studies (VISTAS) Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. K. KALAIVANI Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. ----- ----- 2)K.ULAGAPRIYA Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. ----- -----

(57) Abstract :

ABSTRACT: In today's fast paced life, getting a good and sound sleep has become very difficult resulting in increased cases of sleepwalk. Sleepwalking is much more dangerous than what it appears to be. Many incidents have been reported in which people have performed extremely dangerous activities during sleepwalking viz. suicide, murder, robbery or any other criminal action. This invention provides continuous monitoring and protection of sleepwalking patients. The prototype can detect when a person falls or trying to go out of doors, windows etc. unconsciously during sleepwalking. Pressure monitor and motion sensor have been used for detecting fall and motion respectively. When an event happens, an alarm sounds and a message is sent on a registered mobile number thus alerting the concerned authorities to prevent, any mishap. Figure 1.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202241031116 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROGNOSTICATION OF COVID 19 SEVERITY USING MACHINE LEARNING WITH CONVOLUTIONAL NEURAL NETWORK

(51) International classification :G16H0050200000, G16H0010600000, A61B0006000000, G06N0003080000, G06N0003040000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Vels Institute of Science, Technology and Advanced Studies (VISTAS) Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Ms. S.VIJITHA Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. ----- 2)Dr . A. PACKIALATHA Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. ----- 3)Ms. R. DEEPA Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. ----- 4)Ms. A. ROHINI Address of Applicant :Vels Institute of Science, Technology and Advanced Studies (VISTAS), Velan Nagar, PV Vaithiyalingam Road, Pallavaram, Chennai, Tamil Nadu, India 600117. -----

(57) Abstract :

ABSTRACT: Covid-19 pandemic is putting even the countries with the best health care systems across the world under huge pressure. The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) which causes coronavirus disease (COVID-19) is infecting not only humans but also animals. Being a contagious disease, identifying individuals whose infection can potentially become severe is critical to regulate the case death rate of COVID-19. However, knowledge of symptoms that are related to COVID-19 severity is lacking. There is a continuous requirement for accurate and rapid diagnosis methods besides virus and antibody testing modalities. Chest X-rays of individuals are efficient and can be used for rapid diagnosis of COVID-19 as they are available even at rural clinics. The proposed system automates the detection of COVID 19 and distinguishes the COVID-19 cases from other pneumonia and normal cases and can identify the severity of disease. Depending on the severity of the disease and the past recovery time data set, the recovery time can be predicted using data analytics and machine learning algorithms. This system can efficiently automate COVID-19 detection and can provide fast, reliable and accurate result. Our model gave 85 percent accuracy and 0.91 F1 score even with limited number of chest x-ray images. To diagnose covid-19 infected patients with healthy patients is a critical task. The dialysis of Covid-19 infected patients needs more precaution and must be cured under very strict procedures to reduce the risk of patients unaffected with covid 19. Healthy people and Covid-19 infected patients can be analysed with the help of chest X-ray images. For contributing to an analysis of Covid-19, we collected uploaded data of X-ray images of healthy, pneumonia and covid-19 infected patients from different sources. The analysis of this collected data is done with the help of CNN, a machine learning tool. This work mainly focuses on the use of CNN models for classifying chest X-ray images for coronavirus infected patients. Figure 1.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031120 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SOLAR IRRADIANCE FORECASTING USING DEEP LEARNING ALGORITHM

(51) International classification :G06N0003040000, G06N0003080000, G06Q0010040000, H04L0012240000, G06K0009620000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KPR Institute of Engineering and Technology

Address of Applicant :KPR Institute of Engineering and Technology, Arasur, Coimbatore, Tamil Nadu, India 641407. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.A.Karthick

Address of Applicant :Associate Professor/BEE, Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, Arasur, Coimbatore, Tamil Nadu, India 641407. -----

2)Dr. I Baranilingesan

Address of Applicant :Assistant Professor (SLG) /EEE, Department of Electrical and Electronics Engineering, KPR Institute of Engineering and Technology, Arasur, Coimbatore, Tamil Nadu, India 641407. -----

3)Dr S Sankar Ganesh

Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Data Science, KPR Institute of Engineering and Technology, Arasur, Coimbatore, Tamil Nadu, India 641407. -----

(57) Abstract :

Abstract: The present invention is a solar irradiance forecasting using deep learning algorithm wherein, an efficient method for allocating resources among the various tasks is described, therein, a LSTM neural network model implements the suggested multi-task learning technique and its performance is evaluated for various time scale forecasts. Hyper-parameter estimation for the proposed LSTM model is done using a hybrid chicken-swarm optimizer that combines the best characteristics of both CSO and GWO. Forecasting technique has been tested and found to be highly consistent for all time scales with enhanced metric results compared to existing methods for single timescale forecasting.

No. of Pages : 5 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2022

(21) Application No.202241031135 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : SOLID CONCRETE BLOCK

(51) International classification :C04B0028040000, E04B0002540000, E04B0002020000, C04B0028020000, E04B0002240000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

Address of Applicant :KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. R. DHARMARAJ

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENIGNEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

2)Ms. Y. AARTHI

Address of Applicant :PG SCHOLARS, DEPARTMENT OF CIVIL ENIGNEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

3)Mr. ABHISHEK RAJ

Address of Applicant :PG SCHOLARS, DEPARTMENT OF CIVIL ENIGNEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

4)Mr. R. ALAGUMURUGAN

Address of Applicant :PG SCHOLARS, DEPARTMENT OF CIVIL ENIGNEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

5)Mr. V. CHANDRAPRAKASH

Address of Applicant :PG SCHOLARS, DEPARTMENT OF CIVIL ENIGNEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

6)Ms. S. POORNIMA

Address of Applicant :PG SCHOLARS, DEPARTMENT OF CIVIL ENIGNEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

7)Ms. C. RATHPRIYA

Address of Applicant :PG SCHOLARS, DEPARTMENT OF CIVIL ENIGNEERING, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

(57) Abstract :

The present invention is a solid concrete block wherein, a concrete blocks are stacked one at a time and held together with fresh concrete mortar to form the desired length and height of the wall therein, a raw material used for make concrete blocks is a mixture of Portland cement, water, M Sand, and Gravel. The freestanding block walls are subject to stresses that can crack joints and destroy walls,so both vertical and horizontal reinforcement is should be provided therein, vertical reinforcement is provided by lengths of steel reinforcement embedded in wet concrete poured into block cavities at prescribed intervals thereby, a horizontal reinforcement provides by steel reinforcement which is laid into the wet mortar after every 3rd or 4th course of block.

No. of Pages : 6 No. of Claims : 1

(54) Title of the invention : COGNITIVE LEARNING TECHNIQUE FOR ROBOT

(51) International classification :G05D0001020000, F02D0041240000, G06N0003000000, B25J0019020000, G06F0016953700

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Ms. A. Vijayashanthi

Address of Applicant :Assistant Professor of English, Dr. N.G.P. Institute of Technology, Affiliated to Anna University, Coimbatore, Tamilnadu, India 6414028. -----

2)Dr. S. Rajkumar**Name of Applicant : NA****Address of Applicant : NA**

(72)Name of Inventor :

1)Ms. A. Vijayashanthi

Address of Applicant :Assistant Professor of English, Dr. N.G.P. Institute of Technology, Affiliated to Anna University, Coimbatore, Tamilnadu, India 6414028. -----

2)Dr. S. Rajkumar

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Faculty of Manufacturing, Institute of Technology, Hawassa University, Ethiopia 639004. -----

(57) Abstract :

Abstract: - The present invention is a cognitive learning technique for robot, comprises of a physical sensor module having a hardware configuration constituting a mobile robot. A logical sensor module predicting and grouping information extracted from the physical sensor model. A multi-sensor modality module reflecting a plurality of sensor modality queues mounted on the physical sensor module to generate a spatial map. An environment model element module modelling the mobile robot to understand location and space configurations through spatial information and a semantic-episodic map generation module learning maps based on a human cognitive learning theory to generate a semantic map from the learned maps.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031142 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AI AND VIRTUAL REALITY-BASED APPLICATION FOR SMART AUTOMOBILE PORTS

(51) International classification :G08G0001140000, G06Q0010020000, G06Q0030060000, G06Q0020120000, G07B0015040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

Address of Applicant :KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ms. REETHIKA A.

Address of Applicant :DEPARTMENT OF ECE, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. ----

2) Ms. MENAGA K. C

Address of Applicant :DEPARTMENT OF ECE, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. ----

3)Ms. JAYAVARSHINI A.

Address of Applicant :DEPARTMENT OF ECE, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. ----

4)Mr. JITHESH K.

Address of Applicant :DEPARTMENT OF ECE, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. ----

5)Mr. KARTHIKEYAN E.

Address of Applicant :DEPARTMENT OF ECE, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, ARASUR, COIMBATORE, TAMILNADU, INDIA - 641407. ----

(57) Abstract :

The present invention is an AI and virtual reality-based application for smart automobile ports wherein, a carport is a simple mobile application created for this project to assist users in finding a certain stationing port, therein, a software allows users to reserve parking spaces as well as users are routed to a neighbouring site if none are available, prior to parking, the user must pay a charge. When a user enters a location, the app displays all available parking spots in that region and allows the car to park there, thereby, an era is irrelevant in this circumstance and before users may use the software, they must agree to the terms of service. After the user booked a reservation, they won't be able to modify it therein, if the user is unable to depart their car at the designated time, they will be charged an additional fee thereby, a user be responsible for paying for the app.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031282 A

(19) INDIA

(22) Date of filing of Application :31/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : Device using magnets for generating motion or electricity without an external power source

(51) International classification :H01H0036000000, G01F0023380000, H02K0053000000, H01R0013620000, A63H0033260000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Balamurali Gouthaman

Address of Applicant :1824, 25th B Cross, 24th Main, HSR

Layout, Sector-2 -----

2)Akash Balamurali

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Akash Balamurali

Address of Applicant :1824, 25th B Cross, 24th Main, HSR

Layout, Sector-2, Bangalore 560102. Bangalore -----

-

(57) Abstract :

The invention relates to a device which uses at least two magnets to produce motion without any external source of energy. There is one primary magnet and the other magnets are secondary magnets. The primary magnet rotates due to magnetic forces exerted on it by each secondary magnet. The motion of the primary magnet provides the motion of the device and the secondary magnet moves to change its orientation when required. The motion of the primary magnet and each secondary magnet is coordinated by gears or a ring and a cylinder. The motion of each magnet is connected to a ring, cylinder or a gear. The ring and cylinder contact each other or the gears contact each other. This exerts forces which coordinate the movements of the magnets as needed.

No. of Pages : 52 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031318 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : BACTERIA DETECTION DEVICE USING INTEGRATED BIO-SENSORS FOR SANITATION WORKERS

(51) International classification :B65F0001140000, G01N0033569000, G06K0009000000, C07K0016120000, C12N0015113000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Bannari Amman Institute of Technology

Address of Applicant :Depanment of Computer Science Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode (Dt), Tamilnadu, India 638401. -----

2)Dr.J.Vijay Franklin

3)Mr K. Sathis Kumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.J.Vijay Franklin

Address of Applicant :Depanment of Computer Science Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode (Dt), Tamilnadu, India 638401. -----

(57) Abstract :

ABSTRACT Pathogenic bacterial infections have been a serious threat to human health in recent decades. More particularly, the health and safety of sanitation workers are always under threatened. Their swift detection must be prioritized in order to avoid an epidemic that poses a high menace of disrupting the healthcare system and having devastating socioeconomic consequences. Hence a life-saving system, Pathogenic Bacteria Detection Device using Integrated Bio-Sensors (PBDD-IBS) is invented for sanitation workers. It is a powerful tool to detect the presence of amount of pathogenic bacteria on public surfaces by sensing key attributes through image recognition related to cause of infection and creates awareness among the sanitation workers.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031322 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MOVING ROBOT FOR OLD AGE PERSONS USING IOT

(51) International classification	:H04N0005232000, A61K0009080000, B25J0009160000, G01N0021890000, A61K0031137000	(71)Name of Applicant : 1)PRASAD V. POTLURI Address of Applicant :SIDDHARTHA INSTITUTE OF TECHNOLOGY, Kanuru, Vijayawada, Andhra Pradesh, India 520007 -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)K.BHAVANA Address of Applicant :Department of Electrical and Electronics Engineering, PVP, Siddhartha Institute of Technology, Kanuru, 520007 -----
(61) Patent of Addition to Application Number	:NA	2)P.MUTHUKUMAR Address of Applicant :Department of Electrical and Electronics Engineering, PVP, Siddhartha Institute of Technology, Kanuru, 520007 -----
Filing Date	:NA	3)B.LALITHA Address of Applicant :Department of Electrical and Electronics Engineering, PVP, Siddhartha Institute of Technology, Kanuru, 520007 -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The aim of invention is to design a system which is capable of helping people of aged and disabled by using a simple technique which is cost effective and also different from the existing robotic machines. To meet this, a system comprising of two sub-systems. The later was used to control the direction of . rotationof the motors, and IR sensors, it takes input as Web camera, IR sensors, line follower and the outputs as motor driver

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031326 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DIGITAL CIRCUIT OF THE PWM GENERATION FOR THE CONVERSION OF SYMMETRICAL TO ASYMMETRICAL MULTILEVEL INVERTERS

(51) International classification	:H02M0007483000, H02M0001000000, H03K0005240000, H02M0007490000, G11C0011560000	(71)Name of Applicant : 1)P.V.P. Siddhartha Institute of Technology Address of Applicant :P.V.P. Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh, India-520007 -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to	:NA	1)P Muthukumar
Application Number	:NA	Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, P.V.P. Siddhartha Institute of Technology, Vijayawada, AP, India-520007 -----
Filing Date		2)BhavanaKadiyala
(62) Divisional to	:NA	Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, P.V.P. Siddhartha Institute of Technology, Vijayawada, AP, India-520007 -----
Application Number	:NA	3)T.SrinivasaRao
Filing Date		Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, P.V.P. Siddhartha Institute of Technology, Vijayawada, AP, India-520007 -----

(57) Abstract :

Abstract:Multilevel inverters are inevitable in the present scenario to converter DC to AC. The multilevel inverters can be classified into two groups based on the amplitude of the DC source voltages. The symmetrical multilevel inverters are the one who is having the same input voltages in the circuits for achieving the multiple level. Asymmetrical MLIs are the one having the different ratio of input DC voltages to achieve the multiple levels. The optimized digital designs are required to synthesis the fixed dc voltage ML structure to variable DC voltage MLI structure. Normally multicarrier PWMs and corresponding reference waves are playing a crucial role to generate the PWM for the individual switches. Fig 1 shows the symmetrical multilevel inverter. Which accomplish 9 levels by using 4 mu ti carriers in each half cycle. The 4 number of simple comparator is enough to perform this. But in the case of conversion of symmetrical to asymmetrical, the modified DC voltage source ratio is 1:2:4:8 have to provide as shown in Fig 2. Here the 15 number of carriers and 15 comparators are required to get the 31 levels. These 15 comparators are providing the 15 PWMs (T1- T15) when comparing with sine reference wave. These 15 PWMs further optimized with the novel digital circuits to regenerate the PWM for only 4 switches.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031333 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A COMPOSITION OF POLYDOPAMINE GRAFTED NANO ALUMINA BASED SILICONE RUBBER NANOCOMPOSITE FOR HIGH VOLTAGE INSULATION

(51) International classification	:C08K0003220000, H01B0003440000, C08L0083040000, B29C0059100000, H01B0003460000	(71)Name of Applicant : 1)CENTRAL POWER RESEARCH INSTITUTE Address of Applicant :PROF. C.V. RAMAN ROAD, SADASHIVANAGAR, P.O. BOX NO. 8066, BANGALORE 560080, KARNATAKA. BANGALORE -----
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Ashitha Parambalath Narendran
Filing Date	:NA	Address of Applicant :C/O CENTRAL POWER RESEARCH INSTITUTE, Prof, Sir C.V. Raman Road Sadashivanagar, P.O. Box 8066, Bangalore 560 080, Karnataka, India. Bangalore -----
(62) Divisional to Application Number	:NA	-----
Filing Date	:NA	2)Meena Kamalamma Parameshwaran Nair
		Address of Applicant :C/O CENTRAL POWER RESEARCH INSTITUTE, Prof, Sir C.V. Raman Road Sadashivanagar, P.O. Box 8066, Bangalore 560 080, Karnataka, India. Bangalore -----

(57) Abstract :

The present invention discloses a polydopamine grafted nano alumina based silicone rubber nanocomposite having superior electrical properties of volume resistivity, dielectric breakdown strength, corona discharge resistance, and elongation at break. The present invention also discloses a method for fabrication of polydopamine grafted nano alumina based silicone nanocomposite. These polydopamine grafted nano alumina based silicone rubber nanocomposite can be used in high voltage transmission lines to have increased resistance to corona discharge.

No. of Pages : 28 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031352 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SINGLE STAGE CONVERSION BASED MULTI-INPUT DC-DC CONVERTER FOR ELECTRICAL VEHICLES

(51) International classification :H02J0003380000, G05F0001670000, H02J0007340000, H02J0003460000, F03D0009110000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1) MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI(AUTONOMOUS)

Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO NAGAR, SIVAKASI, TAMIL NADU, INDIA-626 005. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.M. MUHAIDHEEN

Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE (AUTONOMOUS), SIVAKASI, MEPCO NAGAR, SIVAKASI, TAMIL NADU, INDIA-626 005. -----

(57) Abstract :

The demand for renewable energy resources is increasing now due to limited availability of fossil fuels. This proposed work focuses on Multiport Converter for integrated hybrid energy system. In conventional methods, each source interfaces to the power bus via its own converter which increases size, complexity and volume of the system. While paralleling converters, we face serious problems like: 1. Difficulty in operating PV at maximum power point (MPP) and 2. Difficulty in injecting sinusoidal current into grid, which reduces reliability of the system. Multiport converter is used extensively in many places where two different networks need to be connected. It has two impedance networks connected via coupled inductor. The two networks can operate at two different frequencies based on that power sharing happens and output is generated. So it finds its application in hybrid renewable sources like solar, wind, fuel cell, etc., It has many advantages since it eliminates the circulating current which is present while cascading networks. Also it helps to overcome the current and voltage stress by power sharing method. It equally distributes the power between the components. The proposed converter eliminates the use of electrolytic capacitors and dc link and also there is no need for current sensor and output filter inductor which increases the reliability. Thus it has excellent dynamic and steady state performance and renders optimal renewable energy harvesting.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031357 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : ENERGY CONSERVATION DEVICE FOR HOME APPLICATIONS

(51) International classification :H04W0052020000, H01L0033320000, H02J0013000000, H04L0001000000, H04L0012120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mepco Schlenk Engineering College, Sivakasi (Autonomous)

Address of Applicant :Mepco Schlenk Engineering College, Mepco Nagar, Sivakasi, Tamilnadu, India 626005 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.M.Muhaidheen

Address of Applicant :Mepco Schlenk Engineering College (Autonomous), Sivakasi, Mepco Nagar, Sivakasi, Tamilnadu, India 626005 -----

(57) Abstract :

Energy conservation means reducing the consumption of energy by producing or using less of it. This could be in the form of using fewer energy services or using devices that require less energy. Due to the current issues facing energy consumption and its associated limits, the meaning of energy conservation today mainly encompasses ways to prevent wasteful use of energy in the environment. There are countless examples of energy conservation that we know. These include flicking off the lights when leaving a room, unplugging devices or appliances when they're not actively being used, and cycling instead of driving whenever possible. This invention relates to Embedded system field in which Monitoring and control of electrical energy consumption using Wireless Communication Technique to save the energy for home applications, the proposed device will reduce the wastage of power and for using it efficiently. Hence everyone in country could exercise the power without any interruption.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031358 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MUSIC BASED MOOD REGULATION AND RECOMMENDATION SYSTEM USING SENTIMENT ANALYSIS AND RUSSELL'S PLANE

(51) International classification :A61B0005160000, A61K0048000000, G10L0015180000, G10L0015220000, G10L0025630000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Hindusthan College of Engineering and Technology

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.S.Shankar

Address of Applicant :Professor& Head -CSE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

2)Ms.A.Gomathy

Address of Applicant :Assistant Professor/ CSE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

3)Mr.D.Satheesh Kumar

Address of Applicant :Assistant Professor/ CSE, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

4)Mr.Biju Balakrishnan

Address of Applicant :Associate Professor/ CSE Hindusthan Institute of Technology, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

5)AADIL FAYAS P

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

6)ABISH B

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

7)ADARSH K. R

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

8)ALEN LAWRENCE

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

(57) Abstract :

The first part of our model, the interactive agent converses with the user and assesses the user's current emotional state by assigning valence arousal values to the keywords used by the user in the conversation, via Natural Language Processing Methods. When the current emotional state has been established, the goal state is also established, the recommendation path is also plotted after referring to the datasets. Once all this is done, the user gets recommended songs based on the given emotional state parameters, after a few recommendations, the agent once again asks how the user might be feeling, and determines whether to change the goal line or not. This Model hopefully can be used not just as a tool for improving productivity, but to improve one's overall emotional wellbeing, it can also be used as part of music therapy as well.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031359 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANALYSIS AND IMPROVING THE HARDNESS OF EN353 STEEL USING CRYOGENIC TREATMENT

(51) International classification	:G06F0030230000, G06F0017130000, G06F0111100000, G06F0017120000, G06F0017110000	(71)Name of Applicant : 1)Hindusthan College of Engineering and Technology Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr.K.Siva Address of Applicant :Professor& Head /Mech, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----
Filing Date	:NA	--
(87) International Publication No	: NA	2)K.Sriharrish Address of Applicant :Assistant Professor/Mech, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----
(61) Patent of Addition to Application Number	:NA	--
Filing Date	:NA	3)Aravinthan.K Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----
(62) Divisional to Application Number	:NA	4)Boopathi.P Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----
Filing Date	:NA	

(57) Abstract :

The finite element method (FEM) is a numerical technique for finding approximate solutions to partial differential equations (PDE) and their systems, as well as (less often) integral equations. In simple terms, FEM is a method for dividing up a very complicated problem into small elements that can be solved in relation to each other. FEM is a special case of the more general Galerkin method with polynomial approximation functions. The solution approach is based on eliminating the spatial derivatives from the PDE. This approximates the PDE with a system of algebraic equations for steady state problems, a system of ordinary differential equations for transient problems. These equation systems are linear if the underlying PDE is linear, and vice versa. Algebraic equation systems are solved using numerical linear algebra methods In solving partial differential equations, the primary challenge is to create an equation that approximates the equation to be studied, but is numerically stable, meaning that errors in the input and intermediate calculations do not accumulate and cause the resulting output to be meaningless. There are many ways of doing this, all with advantages and disadvantages.

No. of Pages : 5 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031360 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : NON-ISOLATED SINGLE SWITCH BASED HYBRID DC-DC CONVERTER FOR HYBRID VEHICLE

(51) International classification :B60K0006485000, B60W0020000000, H02M0001000000, B60K0017356000, B60K0006120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MEPCO SCHLENK ENGINEERING COLLEGE (AUTONOMOUS)

Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO NAGAR, SIVAKASI, TAMILNADU, INDIA 626005. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR M. MUHAIDHEEN

Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO NAGAR, SIVAKASI, TAMILNADU, INDIA 626005. -----

(57) Abstract :

Typically a hybrid car features a small fuel-efficient gas engine combined with an electric motor that assists the engine when accelerating. The electric motor is powered by batteries that recharge automatically while you drive and it also includes a prime mover; an electric motor with a DC-DC converter, a DC-AC inverter, and the controller, to meet out the energy demand of these components, a suitable converter having high efficiency and high gain is needed. In this patent, a hybrid converter which combines two different converter is developed to cater the needs of the hybrid vehicles components. The proposed converter uses a single switch with a hybrid topology which offers lower voltage stress, elevated voltage gain and continuous conduction mode. The overall efficiency and voltage gain obtained is around as 96.53 and 5.63 respectively.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031368 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : STRESS PREDICTION USING AN INTERNET OF THINGS-BASED NOVEL WEARABLE SMART ELECTRONIC DEVICE USING MACHINE LEARNING SUPERVISED TECHNIQUE

(51) International classification :G06F0003010000, G06F0001160000, A61B0005020500, H04W0004800000, A45F0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MAHESH KUMAR JALAGAM

Address of Applicant :ASSISTANT PROFESSOR, ELECTRONICS AND COMMUNICATION ENGINEERING, BHIMAVARAM INSTITUTE OF ENGINEERING & TECHNOLOGY, PENNADA, PALAKODERU MANDAL, WEST GODAVARI - DISTRICT, ANDHRA PRADESH, INDIA 534243. -----

2)THAMMANAPUDI RAVINDRA

3)VELAMALA APPALA NAIDU

4)PONNAPALLI VYASA OMKAR

5)DR. K. ANUSUYA DEVI

6)DR HARISHCHANDER ANANDARAM

7)DR.R.THAGARAJAN

8)DR.R.RAMKUMAR

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MAHESH KUMAR JALAGAM

Address of Applicant :ASSISTANT PROFESSOR, ELECTRONICS AND COMMUNICATION ENGINEERING, BHIMAVARAM INSTITUTE OF ENGINEERING & TECHNOLOGY, PENNADA, PALAKODERU MANDAL, WEST GODAVARI - DISTRICT, ANDHRA PRADESH, INDIA 534243. -----

2)THAMMANAPUDI RAVINDRA

Address of Applicant :ASSISTANT PROFESSOR, ELECTRONICS AND COMMUNICATION ENGINEERING, GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), RAJAMAHENDRAVARAM, GODAVARI - DISTRICT, ANDHRA PRADESH, INDIA 533 296. -----

3)VELAMALA APPALA NAIDU

Address of Applicant :ASSISTANT PROFESSOR, ELECTRONICS AND COMMUNICATION ENGINEERING, GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), RAJAMAHENDRAVARAM, GODAVARI - DISTRICT, ANDHRA PRADESH, INDIA 533 296. -----

4)PONNAPALLI VYASA OMKAR

Address of Applicant :ASSISTANT PROFESSOR, ELECTRONICS AND COMMUNICATION ENGINEERING, GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY (A), RAJAMAHENDRAVARAM, GODAVARI - DISTRICT, ANDHRA PRADESH, INDIA 533 296. -----

5)DR. K. ANUSUYA DEVI

Address of Applicant :ASSISTANT PROFESSOR, DEPT. OF NUTRITION & DIETETICS, PSG COLLEGE OF ARTS & SCIENCE, AVINASHI RD, PSG CAS, CIVIL AERODROME POST, COIMBATORE, TAMIL NADU, INDIA 641014. -----

6)DR HARISHCHANDER ANANDARAM

Address of Applicant :ASSISTANT PROFESSOR, CENTRE FOR EXCELLENCE IN COMPUTATIONAL ENGINEERING AND NETWORKING, AMRITA VISHWA VIDYAPEETHAM, AMRITANAGAR, ETTIMADAI, CHENNAI, TAMIL NADU, INDIA 641112. -----

7)DR.R.THAGARAJAN

Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, PRATHYUSHA ENGINEERING COLLEGE, ARANVOYALKUPPAM, CHENNAI, TAMIL NADU, INDIA 602025. -----

8)DR.R.RAMKUMAR

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF EEE, DHANALAKSHMI SRINIVASAN UNIVERSITY, SAMAYAPURAM, TRICHY, TAMILNADU, INDIA 621112. -----

(57) Abstract :

Abstract Skin-based wearables provide a strong benefit in permitting continuous tracking of many physiological indices and markers amongst various described portable hospital environments. Wearable sensors which monitor minute electrical changes in the skin might be useful in detecting arrhythmias by measuring the heart's electrical activity. Dependable biopotential-capturing electrode those are disposable and have long-term durability are necessary for accessible and precise tracking of electrophysiological impulses in a wide array of different situations, but they must not induce skin rashes or immune reactions. Individuals would be less vulnerable to stress or less prone to recognize if they're under a lot of stress. Stress methodologies might assist individuals comprehend and manage stress by raising their consciousness of elevated stress levels that may go undiagnosed. This wristband can continually monitor a user's psychological anguish and remotely communicate stress-related information to the user device. Levels of interaction via sensing devices get sent to such gadgets. By assessing the association between such signals, smart wristband provides an automated machine learning algorithm for detecting whether the issue is stressed.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031388 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMART PORTABLE BABY WARMER WITH MONITORING AND CONTROL

(51) International classification	:H04L0029080000, A61B0005000000, A61G0011000000, G06Q0050220000, A61B0005024000	(71)Name of Applicant : 1)Miss. JENISHA J A Address of Applicant :Student, Department of Biomedical Engineering, Muthayammal Engineering College, Rasipuram, Namakkal, Tamil Nadu, India 637 408 -----
(86) International Application No	:NA	2)Miss. LAVANYA.S
Filing Date	:NA	3)Miss. SUJITHRA R
(87) International Publication No	: NA	4)Dr. G. SUDHA
(61) Patent of Addition to Application Number	:NA	5)Dr. J.RANGARAJAN
Filing Date	:NA	6)Mrs. M. BIRUNDA
(62) Divisional to Application Number	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
		(72)Name of Inventor :
		1)Miss. JENISHA J A
		Address of Applicant :Student, Department of Biomedical Engineering, Muthayammal Engineering College, Rasipuram, Namakkal, Tamil Nadu, India 637 408 -----

(57) Abstract :

The neonatal incubator is a closed contraption that offers a controlled environment in all aspects for the care of preterm children. The majority of preterm newborns die between 32 and 37 weeks of gestation owing to a lack of fundamental factors such as temperature.Until recently, the majority of non-industrialized countries decided to overlook preterm children, resulting in their deaths. This notion governs the most cost-effective method for implanting a device that enables for continuous monitoring of neonates in the hatchery.Experts or medical caretakers may check a child's clinical information from the point where they are getting to via distributed storing on the web in a smart hatchery via mobile phones or PCs. The deregulation of unknowns that will compete in development via the use of IoT technology is putting local child hatchery producers to the test.One of the open doors that appears purposely or unintentionally in most Neonatal Intensive Care Units in Hospitals is the lack of offices for guardians to directly examine the child's state within the hatchery.The motivation behind this examination project is to create a model of a web-based child hatchery monitoring system that is outfitted with different sensors that continuously send data to the server, as well as portable applications for checking offices for guardians.

No. of Pages : 17 No. of Claims : 6

(54) Title of the invention : REAL TIME SPEECH DEVICE FOR DEAF AND DUMB PEOPLE USING SIGN LANGUAGE VIA WIRELESS CONNECTIVITY

(51) International classification :G06F0003010000, G06K0009000000, G09B0021000000, G09B0021040000, G06Q0010060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :Nadergul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510 ----- --

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)D.VENKATARATHNAM

Address of Applicant :10-11, Nadergul village, Hyderabad, Telangana, India 501 510 -----

2)UPADHYAYULA SATHWIK

Address of Applicant :plot no 74 Street: road no 6, L.B.Nagar, Hyderabad, Telangana, India 500 074 -----

(57) Abstract :

Gesture-based interaction is a means of conversation for the common person who are deaf and mute.Regular folk do not become acquainted with gesture-based messaging. It creates a transportation gap among dumb and deaf things. This development's previous system made use of the computer vision idea. However, the disadvantage of previous models was that initiatives were not transferable and were prohibitively expensive.The goal of this effort is to create a platform for recognising hand motion interaction, which allows contact among deaf- dumb persons and ordinary people, therefore closing the conversation gap among people.Having heard persons typically employ language interaction mainly on hand signals with precise movements to convey their views to others. The suggested glove is a robotic device that translates American Gesture Recognition Standard into writing or voice in order to bridge the informational asymmetries amongst the mute and the overall public.This system was created with the help of flexing sensors, accelerometers, a controller and a Bluetooth device.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031391 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A COMPOSITION OF BIO ADHESIVE AND A METHOD THEREOF

(51) International classification :C09J0011040000, C04B0028260000, A47L0013160000, C09J0163000000, A23L0033185000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)PALLETIZE GREEN-TECH PRIVATE LIMITED

Address of Applicant :PL NO 258-A, BUDDA NAGAR, PEERZADIGUDA, BODUPPAL, HYDERABAD, TELANGANA. PIN: 500092, INDIA HYDERABAD ----- --

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PRASANNA KUMAR VUMMANANI

Address of Applicant :7-3-288, DWARAKA NAGAR, KHANAPURAM HAVELI, KHAMMAM URBAN, KHAMMAM-507002, TELANGANA, INDIA KHAMMAM -----

(57) Abstract :

A composition (10) of bio adhesive (60) is provided. The composition includes 1 to 40 percentage by weight protein (20). The composition also includes 5 to 25 percentage by weight hardening agent (30). The composition further includes 0.1 to 5 percentage by weight additive material (40). The composition also includes 5 to 20 percentage by weight filler material (50). The filler material includes urea and magnesium oxide. FIG. 1

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031392 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : LOW-COST INTELLIGENT FACE SHIELD AND SOCIAL DISTANCING DEVICE

(51) International classification	:G09B0021000000, G06F0003010000, G06Q0050000000, A61H0003060000, A41D0013110000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1) SHARATH VEDALA Address of Applicant :4-448, T.S.R. NAGAR COLONY, MEERPET, HYDERABAD, TELANGANA, INDIA, 500097. ----
Filing Date	:NA	-----
(62) Divisional to Application Number	:NA	2)SUSHANT TIWARI Address of Applicant :PLOT NUMBER 37, ROAD NUMBER 26 MALLAPUR, MALLAPUR, BALAPUR NEAR EDIFY WORLD SCHOOL, HYDERABAD, TELANGANA, INDIA, 500 005 -----
Filing Date	:NA	-----

(57) Abstract :

Since 2019, the spread of the COVID-19 outbreak has had a long-term impact in several places throughout the world. Face masks are important in all locations when going on a trip. Several projects were underway in this sector to create user-friendly items. With this project, we employed the concept of creating a smart shield to aid in social separation. We originally intended to create a social distancing portable gadget, thus we embedded things in the screen. It's a face protection that can detect motion 2 metres apart from the gadget. This gadget is mainly used in hygienic development, it utilises 3 PIR motion detector sensor to detect the motion and a vibration disc motor to alert the user about the person in walking towards them. It features a tactile control mechanism that vibrates whenever anyone approaches the screen, and we may stop this function by pushing the touch capacitWe trigger.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031397 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : EMBEDDED SENSOR BASED DOOR TO DOOR WASTE COLLECTION SYSTEM

(51) International classification :B65F0001140000, G06Q0050260000, A01N0065200000, B09B0001000000, B65F0001000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHARATH VEDALA

Address of Applicant :4-448, T.S.R. NAGAR COLONY, MEERPET, HYDERABAD, TELANGANA, INDIA, 500097. ----

2)GEETIKA AGARWAL

Address of Applicant :17-1-391/2/1, SUBRAMANYAM NAGAR COLONY, SAIDABAD, TELANGANA, INDIA, 500 059 -----
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(57) Abstract :

Metropolitan waste management has become a vital point related to a number of cycles, including rubbish age, stockpiling, collection, transit, recovery, and removal, as well as general health, sustainable events, and financial strategies. Rapid worldwide population expansion and urbanization have increased the creation of hazardous trash in cities, with serious financial and environmental repercussions. Civil trash management is a major problem these days, owing to legitimate and ecological concerns. Arranging trash components at home for a house-to-house pickup system appears to have a substantial influence on the natural impacts of waste management systems, both in terms of lowering waste landfilled measures and launching new cycle economies. However, in order to assess the long-term feasibility of such a collection system, the environmental effect of rubbish collection and transportation, as well as waste quality, should be thoroughly studied. Potential changes to the weekly receptacles collection plan have been proposed in order to have a more capable and environmentally responsible waste collection administration in the municipality. The review is crucial for a framework aimed at creating an excellent gadget to aid clients with garbage management at home.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : SMART EMBEDDED SENSOR BASED HOME DOOR LOCK AND OPEN SYSTEM

(51) International classification :G08B0019000000, G08B0015000000, G08B0013190000, G08B0007060000, G08B0021220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)G. MUKESH

Address of Applicant :10-11, NADARGUL VILLAGE, HYDERABAD, TELANGANA, 501 510. -----

2)KOTAPATI PRATHYUSH

Address of Applicant :CMPF RESIDENTIAL COMPLEX TYPE-III, Qrt. no-4, KOTHAPET OPP. MAHALAKSHMI THEATER, HYDERABAD, TELANGANA, INDIA, 500 060 -----

(57) Abstract :

The sensation of safety is the absence of risk or danger. It would be an excellent variable to have in any circumstance. Security may show a structure's capacity to guard against external dangers like home invasion. The security framework includes classifications such as building/private security framework, computer safety framework, commercial safety frame work, alarm framework, individual security framework, and so on. Building safety is one of the most crucial things in today's environment. The only deterrent a robber can have is home security. Fundamental family security is always preserved, and no outcast has any influence over it. In this suggested framework, an infrared sensor is employed to track human body development at the entryway. A human body generates infrared radiation in the form of intensity, which may be measured from a distance using an IR sensor. When a living body comes within the operational range of the IR sensor, the sensor sends a signal to open the door. After a specific length of time, the door closes. Assuming no additional development happens within the working range of the IR sensor. Intrude on indicators are employed through limit changes to prevent the engine's locked rotor problem. Furthermore, the proposed framework might be built by transmitting a technique for counting the number of persons that enter and exit a specific location. This can be performed by contacting an EEPROM in order to save data while no power is available.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031399 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SOLAR PANEL POWERED CONTROLLED ELECTRIC MINI VEHICLE USING AUTOMATIC AND MANUAL MODE OF OPERATIONS

(51) International classification	:H02S0040380000, B60L0053300000, B60L0053510000, B60L0008000000, H02S0040440000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. B. M. KANNAN Address of Applicant :10-11, NADARGUL VILLAGE, HYDERABAD, TELANGANA 501 510, INDIA. ----- ----
(87) International Publication No	: NA	2)POLOJU LOHITHAKSHA Address of Applicant :5-9-11 11/5, KINGKOTI, KINGKOTI OPP NEERUS, KINGKOTI MAIN ROAD, NAMPALLY, HYDERABAD, TELANGANA, INDIA, 500 001 ----- ----
(61) Patent of Addition to Application Number	:NA	3)GADDI PAVAN KALYAN Address of Applicant :3-4-73/12, KACHIGUDA, HYDERABAD, TELANGANA, INDIA, 500 027 ----- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The technology used to generate solar power is also being used to generate electric vehicle (EV) power. Today, large solar power arrays can be seen on military bases and in other public places to generate clean and renewable electricity. These large arrays of solar panels have the potential to provide charging stations for EVs and provide power for surrounding buildings. But the future of transportation may be different. Electric vehicles have been slow to catch on, and many people still view them as impractical for daily use. But a new generation of electric vehicles is emerging that is better for the environment and offers a more convenient commute. One of the most well-known new-generation electric vehicles is the solar panel electric vehicle. In this system we proposed a mini electric vehicle which can be operated in both auto and manual mode, the automatic mode utilize the object detection sensor and ultrasonic sensor to clear the motor path i.e., vehicle path. In the manual mode of operation, we employ the Bluetooth technology to drive the vehicle with the help of the Joystick module.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031402 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MEDICAL DISPENSING UNIT BASED ON INTERNET OF THINGS TECHNOLOGY

(51) International classification :G06Q0050220000, A61J0007040000, G07F0017000000, G06Q0030020000, A61J0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. ----- -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)G. SRUJAN REDDY

Address of Applicant :10-11, Nadargul village, Hyderabad, Telangana, India 501 510. -----

2)CHAPPALA. NISSIVIJAY

Address of Applicant :1-164, Kv colony, Anumula, Telangana, India 508 377. -----

(57) Abstract :

Abstract The primary objective of the making machine should be to provide prescription medication to customers 24 hours a day, seven days a week, so that rural folks who reside far from a healthcare facility can purchase prescribed medication. It also can be implanted like an Automated machine, making it simple for individuals to use even those people can't read or understand. The Pharmaceutical Dispenser is a system that administers pharmaceuticals depending on the user's authorization via the login information provided by the device's administration. This device will distribute medications in accordance with the user's medical recommendation, as well as the number of medicines chosen by the person. The payment in this medication distribution is managed through the electronic values saved in the person's card, which is supplied by the operator, and the user may indeed recover the values by bringing the card to the superintendent and using his identity to add the electronic values to the card. This dispenser can be replaced by the authority with the help of GSM module to notify the user about the condition.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031404 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : EMBEDDED SENSOR BASED SECURITY MANAGEMENT SYSTEM

(51) International classification :H04L0029080000, H04L0029060000, G08B0025000000, H04W0004700000, G08B0019000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :Nadergul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. J.B.V. SUBRAHMANYAM

Address of Applicant :10-11, Nadergul village, Hyderabad, Telangana, India 501 510. -----

2)KOMPELLA PRANAV SARMA

Address of Applicant :Plot no 190, Sripuram Colony, Hyderabad, Telangana, India 500 070. -----

3)KONDURU NANDA GOPAL

Address of Applicant :5-5-161/B, Mallikarjuna nagar, Chintalkunta, Hyderabad, Telangana, India 500 070. -----

4)KONNAGULA SRIKANTH

Address of Applicant :1-23/1, BK Thirumalapuram, Achampet, Telangana, India 509 201. -----

(57) Abstract :

Abstract Reusing old security management frameworks is a frequent method for dealing with IoT device security across the board. While this technique may work for a few IoT routes and big IoT devices, it does not scale to the tiniest IoT devices, particularly tiny battery-controlled edge devices and sensor configurations. A security framework is required for a facility to ensure the safety of its occupants. Over the previous two decades, the security framework has gone through phases such as single-course screen framework, control circle screen framework, processor screen framework, and media screen frame work. There is a lot of interest and activity in various businesses because of the quick progress of public monetary development. The framework is made up of identify sensors, a smart terminal, alert devices, and a remote correspondence organization. Using the identify sensors placed in the home, the data is safeguarded and sent to the smart terminal. The implanted framework-based smart terminal is used to recognize receiving data from distinct sensors, operate alarm devices, and transfer data to the host or police. The warning data and control signals are sent between the recognize sensors and the astute terminal via a remote communication arrangement.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031405 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ADVANCED TECHNOLOGY BASED GLASS CLEANING ROBOT

(51) International classification :A47L0001020000, E06B0007280000, A47L0003000000, A47L0003040000, B05B0013020000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.B.M. KANNAN Address of Applicant :10-11, Nadargul village, Hyderabad, Telangana, India 501 510. ----- 2)DAYYALA SANJAY Address of Applicant :4-7-331/1, Prakash nagar, Khammam, Telangana, India 507 003. ----- 3)BALDURI AJAY VARMA Address of Applicant :10-4-83, Darmapuri colony, lingogiguda, Hyderabad, Telangana, India 500 035. ----- 4)BIDARKOTA SAATHVIK Address of Applicant :18-1-101/3/67, Shiva Sai Nagar, Uppuguda, Hyderabad, Telangana, India 500 053. -----

(57) Abstract :

Abstract Until recently, the vast majority of structures, including dwellings, were built with modern and appealing shade glass windows rather than traditional Naco glass windows. Because of the unwanted residue and pollution in the city, modern high-rise structures and houses with glass panels require routine support, fix, and care, particularly window cleaning. A viable solution for outside support, like the utilization of rope, a gondola, and a winch, requires competent people for security concerns. Houses are being built with a rising number of draperies window glass dividers, necessitating their cleaning, maintenance, and protection against residue and pollution. This window provides various challenges, including the height of the window and the potential of danger or harm during the cleaning procedure. As the robot reaches the board's edge at around 3 cm, ultrasonic sensors guide and activate the DC engine to adjust its ongoing direction. At the point when the robot has recognized every one of the four sides of the board window's edge, it will continually activate a signal to notify the client that the glass window cleaning operation is complete.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031406 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MOTORIZED PRESS CONTROLLED AUTOMATIC JOWARI ROTI MAKER

(51) International classification	:B28B0003000000, A41H0043000000, E05B0017000000, A61H0031000000, H01H0013850000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)UPPULA THIRUPATHI Address of Applicant :5-27-182, PL.No-88, Ganndinagar, Hyderabad, Telangana, India 500 079. -----
(61) Patent of Addition to Application Number	:NA	2)MIRDODDI KEERTHI Address of Applicant :8-1-6/75, Karmanghat, Hyderabad, Telangana, India 500 079. -----
Filing Date	:NA	3)D T SIVANI Address of Applicant :D-42/5, DRDO township, Hyderabad, Telangana, India 500 058. -----
(62) Divisional to Application Number	:NA	4)TARALA NIKITHA Address of Applicant :22-1-165/1, Kalikabar, Hyderabad, Telangana, India 500 024. -----
Filing Date	:NA	

(57) Abstract :

Abstract Roti is often regarded as the largest important and commonly eaten staple over all Indian recipes. Creating roti begins with preparing wheat flour and then hand squeezing and physically stretching the flour to obtain the appropriate roti, that are then placed onto a skillet. In this system we automated the key portion of roti production, which is squeezing and spreading the dough to create a thin roti. To obtain the expected function, we employ a press-based apparatus. To build the equipment, the system employs four discs with a better power motor, three major rods, and a tighten drive. Once the motor turns, the shaft spins, causing the nut to travel horizontally. The orientation varies as the screw rotational change directions. Whenever the motor turns, the nut is attached to the pressing plates, which compresses below. Having joined the nut-mounted plate to the push plates to provide a steady press action when needed. The holding rods and machinery provide the necessary coordinated and steady press action for a suitable pressing. So, when pressed hits its minimum value, the motor pauses and reverses its rotation, pulling the press surface upwards while allows a user to retrieve the flat roti. The system employs a roller bearings propeller technology to pressurise and produce flat roti in a short span of time. Here we can automate the system with the use of ultrasonic sensor.

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : MACHINE LEARNING AND EMBEDDED TECHNOLOGY BASED FOOD SERVING ROBOT

(51) International classification :G06N0003000000, B25J0011000000, G06N0005020000, G06N0005040000, G06Q0010060000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. ----- - ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)SHARATH VEDALA Address of Applicant :4 - 448, T.S.R.Nagar Colony, Meerpet, Hyderabad, Telangana, India 500 097. ----- 2)TEJASWINI TIRUMALA PALLERLAMUDI Address of Applicant :Plot no.99, Anitha Nagar, Hyderabad, Telangana, India 500 068. ----- 3)JAYASIMHA ANUGONDA Address of Applicant :15-128, Sri Sai Balaji homes Phase 1, Badangpet, Hyderabad, Telangana, India 500 058. ----- ----- 4)BOTTA MANISHA Address of Applicant :12-1-511, AnandNagar, Hyderabad, Telangana, India 500 068. ----- 5)PAPPU SAHITHI Address of Applicant :3-9-491/1, Bhavani Nagar Colony, Hyderabad, Telangana, India 500 068. -----

(57) Abstract :

Abstract Food production, handling, packing, transportation, planning, security, and food administration are all examples of modern activity in the food sector. The food business is sometimes seen as low-tech, although as assessed by its R&D to transaction ratio, it has recently become more innovative. Artificial intelligence robots are being employed all over the world. These robots, which were developed utilizing cutting-edge technology and Artificial Intelligence advancements, are designed to be utilized for human-focused development, perceiving humans, also, answering human feelings. The future of social robots that can interact with humans seems promising. There are now available housekeeping robots, friendliness robots, drink producing robots, pharmaceutical robots, table tennis trainers, and other sorts of robots. Despite advances in mechanical technology and automation, a few measures must be performed to fulfil the need for computerizing diverse food sector assembly processes. As far as we can tell, these issues are: the development of automated end-effectors that can adapt to a wide variety of food items while remaining cost-effective, the recognition of food items and materials in 3D situations, and a better understanding of primary data of food items from the perspective of mechanical care.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : SELF DRIVING AND FOLDABLE ELECTRIC WHEEL CHAIR

(51) International classification :A61G0005040000, A61G0005100000, A61G0005120000, A61F0004000000, A61G0005060000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. ----- - Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)SHARATH VEDALA Address of Applicant :4 - 448, T.S.R.Nagar Colony, Meerpet, Hyderabad, Telangana, India 500 097. ----- 2)KONNAGULA SRIKANTH Address of Applicant :1-23/1, BK Thirumalapuram, Achampet, Telangana, India 509 201. ----- 3)MISHIKA AGARWAL Address of Applicant :30, Tirumala hills, Hyderabad, Telangana, India 500 036 ----- 4)ANUGU HANSIKA REDDY Address of Applicant :3-96/17/39, Nadargul, Hyderabad, Telangana, India 501 510. -----

(57) Abstract :

Abstract Creating the lifestyle of individuals are sincerely moved in general. To make their life simpler, Wheelchair has recently made a wide range of assistive and guidance frameworks available. Recently, several control frameworks for persons with varied challenges and impairments have been established. The purpose of this project is to push forward, backward, and to the left and right using a wheelchair. The ultimate purpose of this research is to assist severely crippled persons in regaining their independence by assisting them in freely operating a motorized wheelchair. A wheelchair is an electric wheelchair equipped with speed increase sensors, a hindrance sensor, and a computer to provide less experienced drivers with some mobility. By manipulating the speed increase sensor, the wheelchair may be moved in four directions. The obstacle sensor can assist the rider in operating the wheelchair by directing and keeping the rider away from things until the individual is ready to do so. The rider and their consideration affect how much effort is used and how much control the seat requires. The wheelchair will present an impediment in a non-linear fashion, and the wheelchair will automatically come to a standstill. The wheelchair may also be linked to head units and computers, allowing the pilot to use the same controls to manage both the wheelchair and another support equipment.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031415 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ROBOTIC MECHANICAL MOTOR MOUNTED AUTOMATIC WIRE CUTTING MECHANISM TOOL

(51) International classification :B23H0007100000, B21F0011000000, H01R0043280000, H01R0043020000, H01R0004240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :Nadergul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. ----- -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)D.VENKATARATHNAM

Address of Applicant :10-11, Nadergul village, Hyderabad, Telangana, India 501 510. -----

2)SATHWIKA REDDY. G

Address of Applicant :8-6-906/c/49, Hastinapuram, Hyderabad, Telangana, India 500 070. -----

3)MANOGNASREE. D

Address of Applicant :604 , D block, Hastinapuram, Hyderabad, Telangana, India 500 070. -----

4)VAISHNAVI. K

Address of Applicant :9-105/2, Balapurx Road, Hyderabad, Telangana, India 500 070. -----

(57) Abstract :

Abstract Imagine a time when we could cut wires without having to touch them. It would be like an instant, hands-free version of the world's best electrician. It's a great idea, and it already exists. It's called an automatic wire cutter. The ability to cut wires without human interaction is a powerful tool that could save lives and make our world a safer place. However, today's most popular automatic wire cutters are slow, cumbersome, and difficult to use. Researchers have spent the last years working on a new system that will solve these problems and make wire cutting easier and faster than ever before. In this we have built a prototype of my design and have begun testing it on a small scale. Information such as wire width and amount are given by pushing a toggle switch, and actual statistics may be seen on the LCD. All of the parameters got evaluated by the Microcontroller, which then instructed the stepper motor to supply the needed cable and the servo to do the required number of cuts.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031417 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : COMMUNITY BASED HOME SECURITY FOR INDEPENDENT HOUSES USING IOT WITH ENHANCED VERSION

(51) International classification :H04L0029060000, H04L0029080000, G08B0013190000, H04W0012060000, G08B0025010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)D.VENKATARATHNAM

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

2)SHARATH VEDALA

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

3)YAMINI

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

4)K. ROHIT

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

5)A. SHIVA REDDY

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

6)M. KRISHNA

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

(57) Abstract :

Abstract Internet of things (IoT) is a technology that allows devices to communicate with each other and the internet. It has the potential to change the way we live, work, and play. In the home, the IoT has been used to build smart homes and improve the ways we manage our energy, security, and appliances. It has also been used in transportation, such as self-driving vehicles, to improve safety and reduce traffic congestion. The Mobile application allows a person to alert users when an intrusion occurs and sees images from a distant location. Motion is detected using PIR sensors. The ability to operate the Raspberry Pi from a browser has been developed, which means that the user may alter the location of the cameras from the android smartphone browser and obtain a fresh image using security video kit that includes a few instruments such as a PIR sensor module and a webcam. To identify an illegal occurrence, image analysis and data analysis methods, as well as the internet of things and cloud technologies, are used. Utilizing Cloud Services This data can be communicated to a cellular telephone as well as the local security station.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031422 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : LOW COST TRADITIONAL AGRICULTURE SPRAY BASED ON PRESSURE

(51) International classification :A01M0007000000, G06Q0010060000, B05B0009080000, B05B0009000000, A63B0071000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510 ----- -- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)K. ANIL KUMAR Address of Applicant :SPHOORTHY Engineering College, Nadargul Village, Saroornagar, Mandal, Hyderabad, Telangana, India 501 510 ----- 2)SHARATH VEDA LA Address of Applicant :SPHOORTHY Engineering College, Nadargul Village, Saroornagar, Mandal, Hyderabad, Telangana, India 501 510 ----- 3)K. NARENDRA Address of Applicant :SPHOORTHY Engineering College, Nadargul Village, Saroornagar, Mandal, Hyderabad, Telangana, India 501 510 ----- 4)T KALYAN KUMAR Address of Applicant :SPHOORTHY Engineering College, Nadargul Village, Saroornagar, Mandal, Hyderabad, Telangana, India 501 510 ----- 5)K PRAVEEN Address of Applicant :SPHOORTHY Engineering College, Nadargul Village, Saroornagar, Mandal, Hyderabad, Telangana, India 501 510 -----

(57) Abstract :

The contemporary innovation seeks to employ electronic frameworks to handle and monitor many systems while also enhancing comfort and standardization. Flexible control framework applications are now feasible without altering the mechanical design of existing frameworks. This is doable, however, with the construction of a control framework fit for the present framework. A good plan can be made only if it is solid, all boundaries are carefully checked, and the plan proportions are determined. The objective of this investigation is to translate the intended goals and model development philosophy to a mechanically-controllable framework using contextual analysis. A possible framework is a field agricultural sprayer. The administrator's exposure to the hazardous chemical and the absence of stream control are the reasons for this inquiry. It is vital to start and stop the synthetic stream at the desired place, to seal a certain piece of the splashing line, and to avoid absorbing too much during crushing. Ranchers apply pesticides with sun-oriented showers and fuel-based splashes. As a result, the cost of this equipment is exorbitant. 90% of ranchers in India are underprivileged, and they rely on solar-powered showers and gasoline splashes to pay their rent. We used typical rancher pesticides since they are less expensive and can be fixed by ranchers. The essential operational rule of our project, circular movement, will be changed to forward and backward movement. Pressure will be formed in the syphon as a result of movement. The insecticides will subsequently be sprayed into the fields via the spouts.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031423 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED GROCERY SHOPPING PICKUP LIFT ROBOT USING INTERNET OF TECHNOLOGY

(51) International classification	:G05D0001020000, B25J0005000000, B25J0009000000, B25J0009160000, B25J0011000000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadergul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510 ----- --
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)SHARATH VEDALA
Filing Date	:NA	Address of Applicant :4-448, T.S.R.Nagar Colony, Meerpet, Hyderabad, Telangana, India 500 097 -----
(62) Divisional to Application Number	:NA	2)YEADUGURI VENKATA JESHWANTH KUMAR REDDY
Filing Date	:NA	Address of Applicant :3-1-366/1, SBH Colony, Hyderabad, Telangana, INDIA 500 074 -----
		3)ABHINAV SIKHARAM
		Address of Applicant :16-11-20/6/7/AF.NO:301 ,Sneha Residency, Saleem Nagar Colony-2, Malakpet, Hyderabad, Telangana, India 500 036 -----

(57) Abstract :

In the future, robots will help run our homes, clean our offices, deliver our food, and even take our kids to school. But while robots are great at performing repetitive tasks, they're still not good at dealing with people. That's why some companies are developing robots that can perform human tasks like cooking, cleaning, and shopping. One of the most interesting of these is the grocery store robot, which can fetch items from the cooler, bag them, and even ring up the sale on the register. So, in this proposed work we develop a Grocery shopping robot using Artificial intelligence. This system consists of a mechanical arm to picking up the things and a cart to deliver the things. Here all the grocery things of the super market are connected in an artificial intelligence cloud, by using this calculation, the robot can move by itself without the human intervention. Here we use IR sensor for edge detection and object detection and obstacles for the movement of the robot. The sonar sensor is employed to assess distance regarding vehicle movement to pick the certain things entered by the user. By • using touch screen display user can enter the shopping things to the robot.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031424 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN & IMPLEMENTATION OF E-SUIT FOR PARKING OF VEHICLES UNDER ABNORMAL/EMERGENCY CONDITION

(51) International classification :A01M0007000000, G06Q0010060000, B05B0009080000, B05B0009000000, A63B0071000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)M. GOPI

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----

2)KARTHIK.N

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----

3)A. PRIYANKA

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----

4)P KAVYA REDDY

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----

5)D. SRAVANI

Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----

(57) Abstract :

The contemporary innovation seeks to employ electronic frameworks to handle and monitor many systems while also enhancing comfort and standardization. Flexible control framework applications are now feasible without altering the mechanical design of existing frameworks. This is doable, however, with the construction of a control framework fit for the present framework. A good plan can be made only if it is solid, all boundaries are carefully checked, and the plan proportions are determined. The objective of this investigation is to translate the intended goals and model development philosophy to a mechanically-controllable framework using contextual analysis. A possible framework is a field agricultural sprayer. The administrator's exposure to the hazardous chemical and the absence of stream control are the reasons for this inquiry. It is vital to start and stop the synthetic stream at the desired place, to seal a certain piece of the splashing line, and to avoid absorbing too much during crushing. Ranchers apply pesticides with sun-oriented showers and fuel-based splashes. As a result, the cost of this equipment is exorbitant. 90% of ranchers in India are underprivileged, and they rely on solar-powered showers and gasoline splashes to pay their rent. We used typical rancher pesticides since they are less expensive and can be fixed by ranchers. The essential operational rule of our project, circular movement, will be changed to forward and backward movement. Pressure will be formed in the syphon as a result of movement. The insecticides will subsequently be sprayed into the fields via the spouts.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031426 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : RASPBERRY PI BASED SMART KITCHEN SAFETY SYSTEM WITH ALERT SYSTEM

(51) International classification	:G01N0033000000, H04W0080000000, G01N0027120000, G06K0017000000, C08K0005090000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510 ----- -- ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)SHARATH VEDALA Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----
Filing Date	:NA	2)V. NAGA SAI DURGA Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----
(87) International Publication No	: NA	3)C. SATHISH KUMAR Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----
(61) Patent of Addition to Application Number	:NA	4)HRUDAYANATH Address of Applicant :Sphoorthy Engineering College, Nadargul Village, Saroornagar Mandal, Hyderabad, Telangana, India 501 510 -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This framework depicts the evolution of the existing observing framework's strategy for utilizing the Internet of Things. This framework was created using the gas sensor, which detects gas leaks in any environment, and the fire sensor, which is a simple and compact device for fire prevention. The regulator is so important in the gas sensor system that it interacts with every other component. This enables eyewitnesses to witness developments from anywhere on the planet. A gas identification framework must constantly test for environmental conditions. The number of mishaps is rapidly rising, and we have seen several examples in our everyday lives of disasters caused by flammable gases. We occasionally hear the explosion of a family chamber, which is employed for residential reasons, automobiles, and various industries. Many individuals have been seriously hurt and a few have died as a result of the bomb in certain circumstances. As a result, we are performing this duty for security and to inform specific groups, mainly laborers, who are coping with such environment in order to save their lives. The gas spill wastes the gas and, because it is flammable, can destroy living beings and property. To address such a problem, we are developing a framework utilizing Raspberry Pi. This will instantly inform the client to the spill and motivate them to take precautionary measures. The system's benefit is that it employs a gas sensor to detect the presence of gas in the surrounding air, and if the assessment of the gas in the air is reached, the construction and design allow the limit respect careful to be viewed and controlled from a distance.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031427 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : CONVENIENT METHOD TO REDUCE THE NOISE EFFECTS ON STATOSCOPE USING BLUETOOTH WIRELESS TECHNOLOGY

(51) International classification	:A61B0005000000, A61B0007020000, A61B0005024000, A61B0005020500, A61B0005080000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :Nadergul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. ----- -
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)SHARATH VEDALA
Filing Date	:NA	Address of Applicant :4 - 448, T.S.R.Nagar Colony,, Meerpet, Hyderabad, Telangana, India 500 097. -----
(62) Divisional to Application Number	:NA	2)VORUGANTI SAI HARSHITH
Filing Date	:NA	Address of Applicant :5-5-1172, Plot No:23, Sri Ganesh Nagar, Vanasthalipuram, Hyderabad, Telangana, India 500 070. -----
		3)GORRE PRAVALIKA
		Address of Applicant :Plot no:49, Christian colony, Hastinapuram, Saroornagar, Hyderabad, Telangana, India 500 079. -----

(57) Abstract :

Abstract A stethoscope is a clinical gadget used to check to the rhythm of our heartbeat and respiration. Acoustics gadgets are the most often used stethoscopes. The downside of an acoustically hearing is that the audio quality is relatively low, making it unsuitable for use in loud environments or for detecting internal noises in neonates. The pectoral component and the associated wire have been shown to enhance infection transfer from person - to - person and from client to consumer. Updating the interconnecting connection with a Bluetooth device may assist lessen the possible costs by allowing the information to be broadcasted to several users for evaluation. The major goal of this work is to design and build a computerized instrument that uses filters and is based on wirelessly utilising an Embedded System to make it simpler to identify vital signs. In this research, we addressed the modelling and development of a computerized earpiece that could not only deliver a clearer message but also be wirelessly and linked up with systems so that it may be extensively studied and saved for future reference.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031428 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : LOW COST CONVERTIBLE WHEEL CHAIR CUM STRETCHER FOR PATIENTS AND PHYSICALLY HANDICAPPED PEOPLE

(51) International classification :A61G0005100000, A61G0007100000, A61G0005000000, A61G0001020000, A61G0005120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SPHOORTHY ENGINEERING COLLEGE

Address of Applicant :Nadargul, Sagar Road, B.N Reddy Nagar, Balapur, Hyderabad, Telangana, India 501 510. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHARATH VEDALA

Address of Applicant :sphoorthy engineering college Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

2)K. ABHISHEK PRATHAP SINGH

Address of Applicant :sphoorthy engineering college Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

3)KOMMIDI NAVYA SAI

Address of Applicant :sphoorthy engineering college Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

4)RISHIKAR RAO

Address of Applicant :sphoorthy engineering college Nadargul Village, Saroomagar Mandal, Hyderabad, Telangana, India 501 510. -----

(57) Abstract :

Abstract The issue of patient transfer extends back to primordial times. Others carried people who had been gravely injured or subjected to harsh treatment on a wooden cot with material or cowhide attached to it. They were later replaced with continuous wheels, which lowered the amount of work required by the patient transporter.Despite advances in medical treatment and innovation, we are still not prepared to deal with this problem effectively. Patients can employ portable aids for transportation and as a substitute for walking both indoors and outdoors.Wheelchairs and cots are regularly utilized as clinical transportation equipment. The expert or attendant is generally in charge of carrying patients from wheelchair to cot or clinical bed.Understanding the numerous obstacles associated with mobility equipment and developing a superior strategy will be a significant resource for the clinical field serving impaired people. The requirement for a wheelchair cum cot to suit the impaired patient's movement and to give original clinical hardware for usage in clinics.Including different sorts of tests assisted in acquiring more information on medical clinic variety and data gathering. As a result of many types of calamities, the number of crippled people is rapidly growing. Wheelchairs and cots are the most often used mobility aids, and they are typically useful anywhere. Our idea is to create a wheel chair that can be quickly changed into a stretcher. This includes a low-cost deployment method designed to make it easily accessible to all private and government-run emergency clinics.This design can be automated and physically controlled using a smartphone or the seat's switching structure. Severe patients are safe in this situation.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031432 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN INTEGRATED DESIGN AND IMPLEMENTATION OF FPGA BASED HEALTH MONITORING SYSTEM

(51) International classification :A61B0005024000, A61B0005000000, A61B0005020500, A61B0005021000, A61B0005040200 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)SHARATH VEDALA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ---- ----- 2)G. GNANESHWAR Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ---- ----- 3)G. VAMSI PRASAD REDDY Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ---- ----- 4)B. S. SRAVYA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ---- ----- 5)MALLEPALLI NAVYA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ---- -----

(57) Abstract :

Medical care has recently acquired prominence, and innovation is playing a growing role in quiet health monitoring. Checking various patient boundaries on a frequent basis throughout time is part of the well-being monitoring strategies. Sensors identify boundaries, and the data is then sent to a focus unit for additional processing. A FPGA-based patient wellness monitoring system has been designed to evaluate characteristics such as circulatory strain, temperature, and heartbeat. The FPGA-based stage is the most basic for providing a straightforward early approval stage technique. Sensor hubs were previously introduced as low-cost ToT devices due to the FPGA stage. This study's FPGA-based IoT low-end reconfigurable heartbeat sensor interface concept might be used in conjunction with a multi-sensor medical care stage to screen a human body. This framework includes a person's pulse and temperature. It is critical to constantly check patient data such as pulse and temperature. The proposed framework keeps track of the patient's pulse and temperature. A pulse sensor, for example, calculates the pulse, a temperature sensor measures the temperature, and a transmission module linked to the ADC reliably provides the encoded sequential information.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031433 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN OF A REMOTE-CONTROLLED DRONE CUM CAR BASED PROTOTYPE INNOVATIVE TECHNOLOGY FOR FUTURE USING PIXHAWK FLIGHT CONTROLLER

(51) International classification	:B64C0039020000, G05D0001100000, G06Q0099000000, A63H0030040000, B64C0029000000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)SHARATH VEDALA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ----
Filing Date	:NA	----- 2)PRANATHI Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ----
(87) International Publication No	: NA	----- 3)BHARGAV Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, INDIA, 501 510 ----
(61) Patent of Addition to Application Number	:NA	-----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

While flying vehicles may sound like sci - fi, innovation appears to have taken them vision to reality, perhaps aiding in the development of a faster, better, healthier, cleaner, and more interconnected public transport system. Many firms are now focused on electric or smart systems that provide these characteristics. These automobiles, sometimes known as flying vehicles or flying unmanned aerial vehicles, are intended to carry two to five people or the ■ equivalent freight weight; to be very energy efficient, with low or no emissions; and to be far quieter than a regular chopper. In this suggested task, we will create a remote controlled drone cum vehicle. This is a futuristic prototype car. It has the ability to drive like a vehicle and fly like a drone. Traveling from one location to another will become much easier in the future. We employed a tilt mechanism because servos tilt the motor, and as we tilt the motor, the propellers tilt as well, changing the direction of the vehicle.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031436 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DEVELOPMENT OF A DRIVEN BASED CUTTER FOR MULBERRY PLANT NO INCREASE THE PRODUCTIVITY OF THE SILKWORM

(51) International classification :A01K0067040000, A61K0036605000, A23K0050900000, A01G0003000000, A23K0010120000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)K. SESA CHARYULU Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 2)CH SWAMI Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 3)SHIVARAMAMURTHI Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 4)SAIKIRAN REDDY Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- -----

(57) Abstract :

Sericulture is the cultivation of mealworms for the production of silk. Mulberry leaves are used to feed silkworms in sericulture. The cultivation and pruning of mulberry bushes is the most difficult difficulty in this industry. More people are needed to chop the mulberry bushes and transport it to the silkworm barn. It also requires more time.Silk worm formers were struggling to obtain nourishment in a short period of time, and it was more dangerous to cut the leaves of the mulberry tree. Mulberry leaves are an important source of food for silk worms. And we created a Mulberry leaves cutter with two blades. Fuel engine, plant leaf holder after holding the leaves, the cutter makes two cuts on the plant, one higher and one below. The suggested Plant Cutter saves time and maintains perfect precision cutting level using moving cutter.The program comprises a moveable cradle or arms as well as a revolving cutter. Firstly, the arms will hold the mulberry bush as the blade begins to cut it. The plant cutters include a storing capacity for the plants. The plant will be dropped into the supply closet by the limb carrying it.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031443 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : NOVEL METHOD&NBSP;OF AN INTELLIGENT TECHNOLOGY TO COMPENSATE THE PROBLEMS BY FUEL COST FOR AUTOMOBILES BY USING COMPRESSED AIR

(51) International classification	:F01B0017020000, F01B0029100000, F02G0001020000, B60K0003020000, B60K0006120000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)K. SESA CHARYULU Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ----
Filing Date	:NA	----- 2)SWETHA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ----
(87) International Publication No	: NA	----- 3)BHANU Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ----
(61) Patent of Addition to Application Number	:NA	----- 4) RAMYA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ----
Filing Date	:NA	----- 5) PRANAY Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ----
(62) Divisional to Application Number	:NA	-----
Filing Date	:NA	-----

(57) Abstract :

Automobiles now utilise a considerable amount of fossil fuels. However, the usage of fossil fuels has resulted in a number of severe ecological problems, including climatic changes and stratospheric destruction.To avert such scenarios, a compressed air motor of a sustainable energy vehicle is proposed. A compressed air generator is a type of engine that expands compressed air to do mechanical work. Since have no need to design a cooling system for a compressed air engine, which works on warm and cold air, the engine may be manufactured of reduced tensile light weight material.A compressed-air motor is an air powered actuator that expands compressed air to provide productive work. A compressed-air motor is propelled by an air engine that runs on compressed air stored in a tank. Air compressor vehicles use the contraction of pressurized gas to drive their piston rather than combining gasoline with air and igniting it in the engines to drive hammers with hot growing gasses.This pneumatic automobile idea is powered by pneumatics. It has 2 hydraulic chambers that transform longitudinal action into rotary movement. A drive shaft distributes kinetic energy -from one spot to another, powering the vehicle. There is interest in using pressurized gas as a source of energy to power automobiles'.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031444 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : POWER MANAGEMENT SYSTEM BASED AUTONOMOUS GRASS CUTTER ROBOT SYSTEM USING SOLAR POWER TECHNOLOGY

(51) International classification :A01D0034000000, A01G0003060000, G05D0001020000, H02J0007350000, A01D0034780000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)G. MUKESH Address of Applicant : SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 2)SHARATH VEDALA Address of Applicant : SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 3)VISLA KRISHNA Address of Applicant : SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 4)L. PRAVEEN KUMAR Address of Applicant : SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 5) P. SAI TEJA VARMA Address of Applicant : SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- -----

(57) Abstract :

The completely autonomous solar lawn cutting tool is a highly autonomous grass cutting robotic system fuelled by renewable radiation, capable of completely robotic cutting grass without the need for operator engagement. The automatic vehicle motors and the lawn cutter motor are powered by 6V batteries. We also utilize a photovoltaic panel to recharge the batteries, eliminating the need to charge it outside. The goal is to create a completely automated solar lawn cutter, which is a solar-powered robotic vehicle capable of completely autonomous lawn maintenance without the need for human intervention. A solar panel is utilised to charge the battery, eliminating the requirement for external charging. The lawn clippers and vehicular engines are coupled to a controller, which controls all of the machinery. This even features an object recognition device. If no impediments are detected, the controller instructs the vehicle's motors to continue forward. When an obstruction is identified by the ultrasonic sensor, the microcomputer pauses the grass cutting motor to protect the object. The microcontroller then rotates the mechanical until it's clear of the barrier before repositioning the grass cutter.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031445 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS TO MITIGATE THE EFFECT OF POWER QUALITY DISTURBANCES ON THE DC BUS CAPACITOR

(51) International classification	:H04L0005000000, H02M0001440000, H01L0021311000, H04W0008260000, H02M0005458000	(71)Name of Applicant : 1)Indian Institute of Technology Madras (IIT Madras) Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post, Chennai 600036, Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor :
Filing Date	:01/01/1900	1)GOPALAN, Seshadri Address of Applicant :39, Pillayarkoil street, Hanumanthaputteri, Chengalpet – 603002 Chengalpattu -----
(87) International Publication No	: NA	2)VASUDEVAN, Krishna Address of Applicant :C1 SAKTHI ENCLAVE, 151 Luz Church Road, Mylapore, Chennai 600004 Chennai -----
(61) Patent of Addition to Application Number	:NA	3)KUMAR, Dinesh Address of Applicant :Ribevägen 11A, Malmö- 21746, Sweden --- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

See attachment

No. of Pages : 43 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031447 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF A SMART MAILBOX FOR LETTERS AND MAILS TO PROVIDE DELIVERY OF LETTERS INTIMATION VIA IOT

(51) International classification :G06Q0010080000, A47G0029120000, A47G0029122000, H04L0029080000, G06Q0050320000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)G. MUKESH Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 2)L GEETHIKA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 3)AISHWARYA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 4)SAI PRATYUSHA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- ----- 5) SWAPNA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- -----

(57) Abstract :

Even in this day and age, the postal worker still arrives to our door to bring mail, messengers, and packages because some goods, such as couriers and shipments, cannot be sent by email or any other electronic medium. So, in order to receive warning of our mail arrival in our post box, we developed an efficient mail/letter box that sends notification of letter dispatch in our mail box through cloud via IoT to our mobile phones. An authorized and protected IOT-based digital Dropbox placed well outside home at the entrance, which allows the arrival of couriers or other critical items even when the relevant client or homeowner is not there. In this technique, an Infrared pair is used to detect incoming letters in the mail box, and a IoT module is utilised to deliver messages to our phone. This system also has a LCD panel for showing time and mail box information (empty or not), shipment, date, and a real countdown clock circuit.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031449 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF WAY MAP FOR FINDING THE EXACT LOCATION OF THE BUS CUSTOM BASED

(51) International classification	:G08G0001127000, G09F0027000000, G06F0040253000, H04W0004029000, H04L0029080000	(71)Name of Applicant : 1)SPHOORTHY ENGINEERING COLLEGE Address of Applicant :NADARGUL, SAGAR ROAD, B. N REDDY NAGAR, BALAPUR, HYDERABAD, TELANGANA, INDIA, 501 510 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)D. VENKATARATHNAM Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- -----
Filing Date	:NA	2)A. LIKITHA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- -----
(87) International Publication No	: NA	3)K. RAMESH KUAMR Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- -----
(61) Patent of Addition to Application Number	:NA	4) A. SREENITHA Address of Applicant :SPHOORTHY ENGINEERING COLLEGE, NADARGUL VILLAGE, SAROORNAGAR MANDAL, HYDERABAD, TELANGANA, 501510, INDIA ---- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Time is becoming man's most valuable resource. People frequently wait in large lines and then miss out on their preferred method of transportation, which later arrives a few roads away from their current position. Assuming travelers have a basic technique for determining which forms of transportation are nearby and the estimated time it will take to arrive at the stop, they may make a more accurate, educated decision about whether to wait at the stop. Following and checking cars is becoming increasingly popular in cities as the number of commercial and private vehicles accessible increases. Many organizations and people feel that adhering to these days is essential for good health. When transporting valuable cargo, vehicles must be accompanied by synchronized operations units. People track and screen their vehicles as a precaution. Public transportation vehicles are now extensively watched in order to give residents with transportation alternatives. In any case, all global positioning systems must utilize online and external information servers. Carry out the work so that people may see the actual position of the transportation that is running at any given time. That is, whenever the gadget receives the message trap, it responds with the area values requested by the client.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : An Approach for Solving Differential Equations and Variational Problems Based on Python Elvet NN System

(51) International classification :G06N0003080000, G06N0003040000, G06N0020000000, G05B0013020000, G06F0017130000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr.A.Mythreye, Associate Professor/ Department of H&S, Stanley College of Engineering and Technology for Women. Address of Applicant :Stanley College of Engineering and Technology for Women, Abids, Hyderabad, Telangana-500001. ----- 2)Dr.B. Uma Maheswari, Professor / Department of Mathematics, ACE Engineering College. 3)Dr.P. Prashanth kumar, Professor / Department of Mathematics, ACE Engineering College. 4)Dr. S. Vishwa Prasad Rao, Assistant professor / Department of Mathematics, Kakatiya Institute of Technology and Science. 5)V V L Deepthi, Sr. Assistant Professor/ Department of H&S, CVR College of Engineering. 6)Puchakayala Srinivasa Rao, Assistant Professor/ Department of H&S, Malla Reddy Engineering College (A). 7)Dr. M. Sridevi, Assistant professor / Department of Mathematics, CMR College of Engineering & Technology. 8)Dr. R. Srilatha, Assistant professor / Department of Mathematics, VNRVJIET. Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.A.Mythreye, Associate Professor/ Department of H&S, Stanley College of Engineering and Technology for Women. Address of Applicant :Stanley College of Engineering and Technology for Women, Abids, Hyderabad, Telangana-500001. ----- 2)Dr.B. Uma Maheswari, Professor / Department of Mathematics, ACE Engineering College. Address of Applicant :ACE Engineering College, Ankushpur, Ghatkesar, Hyderabad, Telangana-501301 ----- 3)Dr.P. Prashanth kumar, Professor / Department of Mathematics, ACE Engineering College. Address of Applicant :ACE Engineering College, Ankushpur, Ghatkesar, Hyderabad, Telangana-501301. ----- 4)Dr. S. Vishwa Prasad Rao, Assistant professor / Department of Mathematics, Kakatiya Institute of Technology and Science. Address of Applicant :Kakatiya Institute of Technology and Science, Warangal, Telangana-506015. ----- 5)V V L Deepthi, Sr. Assistant Professor/ Department of H&S, CVR College of Engineering. Address of Applicant :CVR College of Engineering, Ibrahimpatnam, Hyderabad, Telangana-501510. ----- 6)Puchakayala Srinivasa Rao, Assistant Professor/ Department of H&S, Malla Reddy Engineering College (A). Address of Applicant :Malla Reddy Engineering College (A), Dulapally, Maisammaguda, Hyderabad, Telangana-500100. ----- 7)Dr. M. Sridevi, Assistant professor / Department of Mathematics, CMR College of Engineering & Technology. Address of Applicant :CMR College of Engineering & Technology, Medchal, Hyderabad, Telangana-501401. ----- 8)Dr. R. Srilatha, Assistant professor / Department of Mathematics, VNRVJIET. Address of Applicant :VNRVJIET, Nizampet, Hyderabad, Telangana-500090. -----

(57) Abstract :

Abstract Elvet is a Python module that we developed to solve differential equations and variation applications utilizing various machine learning techniques. Any solution of coupled ordinary, as well as partial differential equations with arbitrary beginning and boundary conditions, can be handled by Elvet. It can also minimize any function that depends on a collection of functions of numerous variables while placing constraints on them. It could be done while minimizing the effect of the constraints. A neural network trained to provide the required function can be seen as a representation of the approach to any of these challenges.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : A device for curing dental restorative material and a method thereof

(51) International classification :A61C0013150000, A61K0006887000, H01L0031180000, H01L0031020300, G02B0026000000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)JSS Academy of Higher Education and Research Address of Applicant :Bannimantap Road, Sri Shivarathreeshwara Nagara, Bannimantap A Layout, Bannimantap, Mysuru – 570 015, Karnataka, India. Mysore ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Shankarappa Suma Address of Applicant :Department of Orthodontics, JSS Dental College and Hospital, JSS Academy of Higher Education and Research, Mysore, 570 015, Karnataka, India. Mysore ----- 2)Shankarappa Jaya Sheela Address of Applicant :Department of E & C, Siddaganga institute of technology, Tumkur, 572 103, Karnataka, India. Mysore ----- 3)Byalakere Rudraiah Chandrashekar Address of Applicant :Department of Public Health Dentistry, JSS Dental College and Hospital, JSS Academy of Higher Education and Research, Mysuru – 570 015, Karnataka, India. Mysore ----- 4)Hurkadle Jyothikiran Address of Applicant :Department of Orthodontics and Dentofacial Orthopaedics, JSS Dental College and Hospital, JSS Academy of Higher Education and Research, Mysuru – 570 015, Karnataka, India. Mysore -----

(57) Abstract :

Conventionally available light curing devices for restorative dental material are not ideal to employ in rural areas where there is lack of electricity. Besides, the conventionally available light curing devices take more curing time, this is probably due to lack of maintaining proper distance between the light source and the restorative material for filling the dental cavities. Accordingly, the present disclosure provides a sensor based LED light curing device (100) for curing dental restorative materials (105). More particularly, the device employs solar cell or panel (300b) for charging the battery (220h) and also employs a sensor (200d) for alarming the dental practitioners and for accurately maintaining the effective distance between the transparent glass lenses (200a), (200b), (200c) and the tooth (800) filled with the dental restorative material (105) for effective bonding and depth of curing the restorative material.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202241031568 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A CONVEYOR- BASED INDUSTRIAL IRONING SYSTEM

(51) International classification :D06F0073020000, G06Q0050280000, D06F0069000000, D06F0073000000, D06F0075380000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)T Jayachandran Address of Applicant :7/136, muthukumaran kovil street, pachal post, Kadanthappatti ----- 2)S. Madhumitha 3)S. Meenakshi 4)Dr. O. Cyril Mathew 5)S. Krithika Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)T Jayachandran Address of Applicant :7/136, muthukumaran kovil street, pachal post, Kadanthappatti Namakkal ----- 2)S. Madhumitha Address of Applicant :9/10, Nadesa Mudali Street, Tharamanagalam, Salem Salem ----- 3)S. Meenakshi Address of Applicant :45C, Modern Nagar, Chinnamettupalayam, Saravanampatti Post, Coimbatore Coimbatore ----- 4)Dr. O. Cyril Mathew Address of Applicant :Oliver Illam, Santhosham Nagar, Muthampalayam, Erode Erode ----- 5)S. Krithika Address of Applicant :63, Madhava Krishna Street, Erode Erode -----

(57) Abstract :

In huge garments, the process of ironing the finished materials consume a lot of time and man power. The ironing temperature differs for different type of fabrics. Ironing must be done in a careful manner such that it should not cause any accidental burns. A Conveyor-Based Industrial Ironing System comprises of a conveyor belt, tactile sensor, ironing setup, LCD Display and Voltage and Current Indicator. The tactile sensor is placed on input end of the conveyor belt. This senses the type of fabric and provide the signal to the micro controller. The microcontroller processes the signal from tactile sensor and adjusts the temperature of the heating element in the ironing setup. Thus, a fabric gets ironed automatically and safely eliminating the continuous human- monitoring. An LCD display is also placed on the system to facilitate the user to view the working hours, number of cloths ironed etc. Voltage and current indicator display the voltage and current consumed during the working condition of the system to intimate the conscious usage of power. This device helps in saving time, energy, money (one-time investment) and man power. This setup helps in recording the working hours in standard time format and number of clothes ironed. This information is shared to the company website at every instant via cloud computing technology.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/06/2022

(21) Application No.202241031569 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : EFFICIENT VIDEO CODING USING MULTI RESOLUTION TECHNIQUES

(51) International classification :H04N0019630000, H04N0019640000, H03M0007300000, H04N0019122000, G06T0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR. NITHIN S S

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS ENGINEERING, ST JOSEPH COLLEGE OF ENGINEERING AND TECHNOLOGY, KERALA, INDIA. -----

2)DR. L. PADMA SURESH

3)DR.P.MUTHU KUMAR

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. NITHIN S S

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS ENGINEERING, ST JOSEPH COLLEGE OF ENGINEERING AND TECHNOLOGY, KERALA, INDIA. -----

2)DR. L. PADMA SURESH

Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, ST JOSEPH COLLEGE OF ENGINEERING AND TECHNOLOGY, KERALA, INDIA. -----

3)DR.P.MUTHU KUMAR

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA,AP, INDIA-520 007. -----

(57) Abstract :

Abstract: In the recent digital world, all data is being kept in the digital platforms which results in require of huge storage space for storing the images and video and also requires a huge bandwidth for transmission. At that time a compressed data is .very useful for storing more data. The scope of the-research includes analyzing the different compression techniques designed by various researchers and developed a new video compression method by using multiresolution techniques. First, compress the video using wavelet transform and different encoding techniques. For doing transform we take EWT and it is fixed for all comparisons. The encoding techniques used here are H.264, Huffman, LZW, SPIHT and their combinations. With the help of various performance matrices combination of H.264 and modified SPIHT gives better performance. The SPIHT is modified to overcome the limitations of normal SPIHT. Second part, the encoding block is fixed and transform part is varying. For doing transform function, Biorthogonal Wavelet, Coiflet Wavelet, Demeyer Wavelet, Mexican Hat Wavelet, Dual Tree Wavelet, Dual Tree 3d Wavelet, Curvelet and Modified Dual Tree Wavelet are used. Out of these Modified Dual Tree Wavelet gives better performance and it overcomes the limitations of DTCWT. Modified SPIHT and modified dual tree transform is the research contribution and this combination shows better results in video coding compared to other techniques.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031581 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYSTEM FOR PROCESSING OF PADDY

(51) International classification :G05B0019042000, G05B0023020000, H04L0029080000, G05B0019418000, H04N0021478000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)AGRI PROCESS INNOVATIONS TECHNOLOGIES LLP

Address of Applicant :No.164 & 165, KIADB, Obdenahalli Industrial Area, 3rd Phase, Doddaballapur, Bangalore – 560125 Karnataka, India Bangalore -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHASHIKUMAR THIMMAIAH

Address of Applicant :Agri Process Innovations Technologies LLP, NO. 164 & 165, KIADB, Obdenahalli Industrial Area, 3rd Phase, Doddaballapur, Bangalore-560125 Bangalore -----

2)SRIDHAR NAGALAPUR

Address of Applicant :Agri Process Innovations Technologies LLP, NO. 164 & 165, KIADB, Obdenahalli Industrial Area, 3rd Phase, Doddaballapur, Bangalore-560125 Bangalore -----

(57) Abstract :

ABSTRACT A SYSTEM FOR PROCESSING OF PADDY A system (100) for processing of paddy comprises a set of processing stations, a set of field instruments (101), a local control unit (102), a cloud server (103) and remote control devices (104). Further the set of field instruments (101) are configured to collect data from set of processing stations monitor a processing station from the set of processing stations. Further the local control unit (102) comprises a processor coupled to a memory. Further, the processor is configured to execute a set of instructions for receiving the data from the set of field instruments (101). Further, the processor compares the data with pre-determined thresholds and generates set of commands corresponding to target field instrument. Based the comparison, the processor identifies the target processing station, corresponding to target field instrument, and transmitting the set of commands to the target processing station, thereby controlling the set of processing stations for paddy processing. [To be published with Figure 1]

No. of Pages : 35 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031582 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANALYSIS OF EN8 CRANKSHAFT FOR AUTOMOTIVE APPLICATIONS

(51) International classification :G06F0030230000, B29C0048050000, C22C0047080000, B60N0002680000, C21D0001340000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. K. SIVA
Address of Applicant :PROFESSOR & HEAD /MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
2)Dr. M. MOHANRAJ
Address of Applicant :PROFESSOR /MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
3)Mr. K. MAHARAJA
Address of Applicant :ASSISTANT PROFESSOR/MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
4)Mr. L. KARTHICK
Address of Applicant :ASSISTANT PROFESSOR/ MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
5)ABHISHEK S
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
6)AAKASH R
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
7)HAJA MOHAIDEEN H
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
8)ABISHEK P
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
9)AAGASH E
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
10)ABISHEK AS
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
11)ABISHEK LR
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
12)GOWSICK. A
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

(57) Abstract :
EN8 has good identical metallurgical constructions in its heat-treated forms, resulting in reliable machining qualities. On sections bigger than 63mm, good heat treatment results are still possible, although it should be noted that mechanical qualities begin to deteriorate around the Centre of the bar. As a result, it is advised that larger quantities of EN8 be provided untreated, with any heat treatment occurring after the first stock withdrawal. This should result in improved mechanical qualities towards the core. ANSYS Workbench was used to perform a Finite Element Analysis on the single cylinder EN8 crankshaft. Many conversations have been held based on the results of finite element analysis. Because the EN8 crankshaft can handle the static stress and has a higher tensile strength, there is no problem from a strength standpoint. The cost of an EN8 crankshaft can also be reduced by mass manufacture. This endeavor will leave an indelible impression on the automotive industry.

No. of Pages : 5 No. of Claims : 4

(54) Title of the invention : VACUUM ASSISTED BOREWELL RESCUE SYSTEM

(51) International classification :B66B0005020000, B60N0002280000, G08B0021020000, C09K0008516000, G06N0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SRI KRISHNA COLLEGE OF TECHNOLOGY

Address of Applicant :SRI KRISHNA COLLEGE OF TECHNOLOGY, KOVAIPUDUR, COIMBATORE-641042, TAMILNADU, INDIA. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. K. SENTHIL KUMAR

Address of Applicant :23B KURAI THOTTAM, KG PUDUR, CHETTIPALAYAM, COIMBATORE, PINCODE-641201, TAMILNADU, INDIA. -----

2)Dr. P. PRATHAP

Address of Applicant :SITE NO 34, KANNIYA NAGAR, T.V. S NAGAR ROAD, KAUVDAMPALAYAM, COIMBATORE, 641030, TAMILNADU, INDIA. -----

3)Mr. A. S. MANIRATHANAM

Address of Applicant :15, PILLAIYAR KOVIL STREET, POOTHOTTAM, A G PUDUR, IRUGUR POST, COIMBATORE, 641103, TAMILNADU, INDIA. -----

4)Mr. K. MOHAN

Address of Applicant :NO 6/323, KAIKATTI, MOOLATHARA, PALAKKAD-678533, KERALA, INDIA -----

5)Mr. S. MANIKANDAN

Address of Applicant :1/116 SAKTHI KELA MEL STREET, VISWANTHAPERI, SIVAGIRI TALUK, TENKASI-627757, TAMILNADU, INDIA. -----

6)Mr. MUTHU RAJA S

Address of Applicant :52, KAMACHIAMMAN KOVIL STREET, VETTAIKARANPUDUR, POLLACHI-642129, TAMILNADU, INDIA. -----

7)Mr. M. A. RAMANATHAN

Address of Applicant :SITE NO 6, MARUTHI NAGAR, MJM RUBY, RAKKIPALAYAM POST, THOMPPAMPATI PIRIVU, COIMBATORE-641031, TAMILNADU, INDIA. -----

8)Mr. R. RAVICHANDRAN

Address of Applicant :25, SALIYA STREET, KUTHALAM, MAYILADUTHURAI-609801, TAMILNADU, INDIA. -----

(57) Abstract :

A problem that draws serious attention and concern in today's world is the death of infants trapped in open or improperly closed bore wells. The existing conventional method to rescue a child trapped in a narrow unstable borewell at a given depth struggling for its life involves personnel digging another hole parallel to the bore well until the required depth is attained, digging horizontally until the pathway reaches directly beneath the child and manually retrieving the child to safety. This process is difficult and time consuming since it requires lot of heavy machinery and earth movers to be brought to the site in order to perform the above task. In a lot of cases the infant unfortunately perished before being rescued. According to the natural disaster the response force, since 2009 over 40 children have fallen into bore wells and, on average, 70% of conventional child rescue operations fail. NDRF has conducted 37 bore well rescue operations out of which only 15 has been successful. In this paper we intend to propose a vacuum assisted bore well rescue system for easy, safe and fast rescue of the infant. The proposed system makes use of a suction cups connected to a vacuum pump, inserted into the bore well to retrieve the infant. The proposed system, if implemented would be able to rescue the child safely and quickly, thus preventing death. Recently some autonomous robots came on to screen to take out the trapped body in a systematic way. But the question rises, why these bots are not in action in the real world. This brings out safety that how far the robot handles the child safely. The rescue operation mainly consists of three processes; Approaching the Child, Handling the body, Taking child out of the well.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : EASY LAUNDRY BOARD

(51) International classification :C11D0003200000, D06F0003020000, C11D0003000000, C11D0003380000, D06F0001040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS)**

Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Dr. SUMALATHA V**

Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. -----

2)Dr PRIYA R

Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. -----

3)Dr. PRASANNA S

Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. -----

(57) Abstract :

Easy Laundry Board is a manual washing cloth board mainly designed for aged people and physically challenged. The board is made up of lightweight aluminium of size 75 cm X 45 cm (1 X b). The board comprises of four corner extendable stand which can be fixed on the top of the Sink or use as a table to wash clothes which keeps the board firm while washing. At the right top corner of the board, an outlet provision to drain the water and an exclusive scrub board for washing clothes to remove and treat tough stains easily is provided. In the left side of the board an inbuilt soap stand and a place to hold small bucket to rinse washed clothes is provided. The four sides of the board is covered with side beading of size 7 cm which will avoid water spilling. The main purpose of the board is to easily wash clothes without occupying more space and water by standing or even by sitting in a chair especially for those who can't sit down and wash clothes regularly. The portable wash board is very easy to maintain and it is cheap too. Machine wash, is quite power consuming, more water consuming and also expensive. As per research survey, most of the people are not satisfied with machine wash due to its inefficiency in removing tough stains and consumption of water. On the other hand this Easy laundry board, can be carried away anywhere and fixed over tap provision which can be used for washing and can treat stains like grease, oil, ink easily with no power consumption, less water consumption and user friendly. Figure 1.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031592 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : WATER FILTER SYSTEM

(51) International classification :A01K0063040000, B01D0035300000, C02F0101200000, C02F0001000000, B01D0053880000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Jagadeesh Devaraja
Address of Applicant :#25 Jagadeesh nilaya 33rd main 7th Block BHCS Layout Banagirinagara Banashankari 3rd stage -----

Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Jagadeesh Devaraja
Address of Applicant :#25 Jagadeesh nilaya 33rd main 7th Block BHCS Layout Banagirinagara Banashankari 3rd stage ----- --

(57) Abstract :

A water filter system (400) comprising a mechanical filter system (100 & 200) for physical filtering and a compartment system (300) for chemical and biological filtering, with an inlet (101) and an outlet (301). In one embodiment the invention can be a self-cleaning apparatus, comprising mesh system sloping (105) towards an automatic waste outlet window (108), and smart systems for controlling flow in streamliner (106) and compartment systems (301] to have greater efficiency in puring process.

No. of Pages : 34 No. of Claims : 9

(51) International classification :A45D0024220000, A45D0024260000, A45D0024240000, A61H0035000000, A45D0019020000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS) Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr PRIYA R Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. ----- 2)Dr. SUMALATHA V Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. ----- 3) Dr. PRASANNA S Address of Applicant :VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES(VISTAS), VELAN NAGAR, PV VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI, TAMILNADU 600117. -----

(57) Abstract :

Agile spa comb, is a handy and new kind of comb which can accomplish/fulfil the spa effect at home or during travel/anywhere with a unique design of following specifications. The agile spa comb has a design style of fibre make (resembles old landline receiver equipment) which comprises of two partitions (two sided) separated by a central handle at the middle. On the left partition (LP) the agile spa comb comprises of fine fibre sheet on the top in the form of fibre flap which can be opened and locked tightly acting as liquid tank. The liquid tank has a capacity of 10 ml. inside the tank it has a fibre sheet filter which will allow flow of preferable oil/medicinal/pain relieving additives on the scalp or any part of the body as applicator in a uniform rate evenly. The tank is used for storing oil/ shampoo/medicinal liquids. Beneath the tank it has got a series of fine fibre teeth projecting from it. These fine wide teeth are great to replace the fingertips as applicator to scalps and any part of body(knees,hands,legs,neck etc)and relieves fatigue. The other half, the right partition(RP)of the agile spa comb has fine series of soft fibre bristles/teeth, which can be moved up and down when the comb is pressed on scalp or on any part of body and acts as massager. The movement of the bristles/teeth on the right partition of the comb(RP) is controlled by a battery fixed on the middle part of the comb. The middle handle has a button operated through battery which controls the functioning of right partitioning. The middle handle is an ergonomic handle which is comfortable and easy to use .

Figure 1.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031596 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A PROCESS OF ASSESSMENT OF STRENGTHS OF CONCRETE WITH C AND D WASTES AS INGREDIENTS

(51) International classification :C04B0028040000, C04B0018160000, C04B0018140000, B65F0001060000, C04B0020020000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr.Bharathi Ganesh Address of Applicant :Dr.Bharathi Ganesh Professor & Head Department of Civil Engineering Nitte Meenakshi Institute of Technology, Bangalore, Karnataka bharathi.ganesh@nmit.ac.in Phone: 7975359255 ----- 2)R Abhishek 3)Nitte Meenakshi Institute of Technology, Bangalore, Karnataka Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr.Bharathi Ganesh Address of Applicant :Dr.Bharathi Ganesh Professor & Head Department of Civil Engineering Nitte Meenakshi Institute of Technology, Bangalore, Karnataka bharathi.ganesh@nmit.ac.in Phone: 7975359255 ----- 2)R Abhishek Address of Applicant :Department of Civil Engineering Nitte Meenakshi Institute of Technology, Bangalore, Karnataka ----- ----- 3)Nitte Meenakshi Institute of Technology, Bangalore, Karnataka Address of Applicant :6429, NITTE Meenakshi College Rd, BSF Campus, Yelahanka, Bengaluru, Karnataka 560064 ----- -----

(57) Abstract :

In the Invention, an effort is made to determine the characteristic compressive strength and Bond Strength of Recycled Aggregate Concrete (RAC) for a grade of concrete and the effect of the presence of C& D waste on the strength of RAC is assessed in comparison with that of Natural Aggregate Concrete (NAC), with an objective of establishing a characteristic compressive strength concrete with full replacement of C & D waste as Coarse Aggregates. Effective disposal of C&D waste is a challenge as an enormous quantity is generated from various sources. Effective utilization of such waste material as ingredients in Concrete, the largest consumed material next to water is a green solution for solid waste disposal.

No. of Pages : 30 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/06/2022

(21) Application No.202241031600 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Designing a NVIDIA based automated real time smart attendance system using face recognition

(51) International classification :G06K0009000000, G07C0001100000, G06Q0050200000, H04N0005232000, G07C0001120000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. VELAPPAGIRI SEKHAR

Address of Applicant :Associate professor and HOD EEE Department, Kuppam Engineering College, KES Nagar, Kuppam -----

2)Ms.G S MAMATHA

3)Mr.G.VAMSI KRISHNA

4)Mr.K.M.BHAVANI PRASAD

5)Mr.H.RAMANA

6)Mr.K VELU

7)Mr.K VASU

8)Mrs.A.ARCHANA

9)Mr.V.SELVARAJ

10)Ms.V.NANDHINI

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. VELAPPAGIRI SEKHAR

Address of Applicant :Associate professor and HOD EEE Department, Kuppam Engineering College, KES Nagar, Kuppam -----

2)Ms.G S MAMATHA

Address of Applicant :UG student EEE Department, Kuppam Engineering College, KES Nagar, Kuppam, Chittoor -----

3)Mr.G.VAMSI KRISHNA

Address of Applicant :UG student EEE Department, Kuppam Engineering College, KES Nagar, Kuppam Chittoor -----

4)Mr.K.M.BHAVANI PRASAD

Address of Applicant :UG student EEE Department, Kuppam Engineering College, KES Nagar, Kuppam. Chittoor -----

5)Mr.H.RAMANA

Address of Applicant :UG student EEE Department, Kuppam Engineering College, KES Nagar, Kuppam. Chittoor -----

6)Mr.K VELU

Address of Applicant :UG student EEE Department, Kuppam Engineering College, KES Nagar, Kuppam. Chittoor -----

7)Mr.K VASU

Address of Applicant :UG student EEE Department, Kuppam Engineering College, KES Nagar, Kuppam. Chittoor -----

8)Mrs.A.ARCHANA

Address of Applicant :Assistant professor EEE Department, Kuppam Engineering College, KES Nagar, Kuppam. Chittoor -----

9)Mr.V.SELVARAJ

Address of Applicant :Artificial intelligence Developer, MAKE Labs 5/293-1,Thiruvalluvar Nagar, 2nd cross, Krishnagiri. Krishnagiri -----

10)Ms.V.NANDHINI

Address of Applicant :Embedded Developer,MAKE Labs 5/293-1,Thiruvalluvar Nagar, 2nd cross, Krishnagiri. Krishnagiri -----

(57) Abstract :

The presents invention relates to designing a NVIDIA based automated real time smart attendance system using Face recognition. This system marks the attendance using live video stream. The frames are extracted from video using facial landmarks. The main implementation steps used are face detection and recognizing the detected face, by comparing the detected (captured through camera (2)) face with the pre-stored faces in open cv and the database of students. We have implemented our work using a NVIDIA board (1) and this approach utilizes the benefits offered by different python libraries like Open CV. MySQL database management system (7) is used as the backbone of its memory. The recorded attendance will be stored on the MySQL database for future reference. By using this facial land mark algorithm its faster and authentic performance, this system is worthy enough to be integrated with any applications to boost up automation and user-friendliness. This smart and automatic attendance system can be a constructive way to maintain the attendance records of the students in the classroom and to reduce fake attendance. The cumulative system working based on lithium ion battery (3), AC to DC converter (5), IC 7805 (4), charge controller (6).

No. of Pages : 20 No. of Claims : 5

(54) Title of the invention : FABRICATION OF CAR LIFTING MECHANISM USING UNIVERSAL OBJECT INTERACTION

(51) International classification :B60S0009060000, B66F0003160000, B66F0003180000, B66F0019000000, B66C0023780000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Hindusthan College of Engineering and Technology

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Dr.K.Siva

Address of Applicant :Professor& Head /Mech, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

2)Mr. N. Prasanna Venkatesan

Address of Applicant :Assistant Professor/Mech, Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

3)KAVIYARASAN M

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

4)KIRUTHIK ROSHAN S

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

5)KISHOREKUMAR S

Address of Applicant :Hindusthan College of Engineering and Technology, Valley Campus, Pollachi Highway, Coimbatore, Tamilnadu, India 641032 -----

(57) Abstract :

The approach to this idea involves here we are introducing the motorized screw jack. The vehicle should be lifted for certain type of works. This cannot be done manually. To avoid such problem a jack was invented. To make the work easier than a screw jack we have introduced a new concept called motorized screw jack. We can easily lift the vehicle up and down by using the mobile application. The entire assembly is controlled by app which is made on IOT app maker and the brain of this project is the NODU MCU. which controls all the motors by receiving signals from the app with help of a WIFI module, NODU MCU stores the code which is encoded into it by NODU MCU encoder. Mechanical jacks can be either hand operated or power driven. A jack is commonly used with cars but is also used in many other ways, including industrial machinery and even aeroplanes. They can be short, tall, fat, or thin depending on the amount of pressure they will be under and the space that they need to fit into. The jack is made out of various types of metal, but the screw itself is generally made out of lead. A large amount of heat is generated in the screw jack and long lifts can cause serious overheating. Ensure that you follow the speed, load capacity, temperature recommendation and other relevant factors for application.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031622 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AUTOMATED HEALTH CARE DRIVEN CANINE FEEDER

(51) International classification :A01K0029000000, A61B0005000000, A01K0005020000, A01K0005010000, G08B0021140000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)THE PRINCIPAL, MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE (PO), SIVAKASI, TAMILNADU, INDIA, 626005. ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. S. SELVA NIDHTANANTHAN Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE (PO), SIVAKASI, TAMILNADU, INDIA, 626005. ----- 2)Dr. J. SENTHIL KUMAR Address of Applicant :DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING, MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO SCHLENK ENGINEERING COLLEGE (PO), SIVAKASI, TAMILNADU, INDIA, 626005. -----

(57) Abstract :

As the number of dogs owned grows year after year and the majority of pet partners are working professionals, the need for higher - quality canine (16) care products is increasing tremendously. Canine owners are unable to manually feed their pets properly. Automation can be done independently by machines, but it can be augmented with monitoring (3) and regulating (7) capabilities with the help of IoT (9), (10). Many electronic devices are interconnected with the help of internet connection. This has sparked the emergence of the Internet of Things (IoT) in this utility. IoT is used to store the data in the cloud. The goal is to give need based feeding without the intervention of the canine owners. With the help of the Arduino UNO microcontroller (7), the data sensed from the sensors are processed to find the abnormality condition. Sensor data is used to evaluate whether the canine is healthy or sick. The sensors which are used to find the health of the canine are DTH11 Temperature Sensor (4), Heart Beat sensor (5) and MPU6050 Accelerometer Sensor (6). NODE MCU ESP8266 (9) is used to store the data in the cloud (10) so that the owners can view the logs wherever the network is available. If the abnormality condition is met, then the quantity of food which is fed will be reduced. We supply canine pet owners with an effective, easy, and low-cost tool for canine monitor and food dispenser with this canine smart feeder and health monitor. In case of ailment to the canine, after checkup, pet owners and veterinarian can't monitor the health conditions of the pet continuously. In these situations, monitoring of health conditions becomes necessary. The presented invention (1) fulfills this necessity using its health module (2) and feeds the canine in a controlled way without wasting the food by dispensing controlled amounts of food from the food container with the help of its feeder module (3). As the feeder module of the invention is physically separated from the canine and kept at the allotted location, the present invention puts no restriction on movement of the canine and the canine need not be kept inside the canine kennel.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/06/2022

(21) Application No.202241031625 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : THE PROPERTIES OF COCONUT SHELL POWDER, FIBRE, POSTACHIO SHELL POWDER AND GROUND NUT SHELL POWDER

(51) International classification :B29C0070080000, C04B0035800000, B29C0070120000, B32B0037120000, C22C0047200000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. K. SIVA Address of Applicant :PROFESSOR & HEAD /MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 2)Mr. S. VIDYA PRAKASH Address of Applicant :ASSISTANT PROFESSOR/ MECH, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 3)JAYASAKTHIKUMAR D Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 4)JEYA RAMALINGAM V Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 5)JINESH MOORTHY T Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 6)RAGUL. D Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

(57) Abstract :

The approach to this idea involves that the composites are the main- material that is being used by the present world. Composites have a more significant ■ advantage because these are made by engineering processes and mainly helpful to-. reduce the weight and hence to increase the efficiency. Composite material consists of two or more materials in a different phase. Composite materials (or composites for short) are engineered materials made from two or more Fibre-reinforced composite materials consist of 'fibres' of high strength and modulus ' embedded in or bonded to a 'matrix' with distinct interface (boundary) between them. In this form, both fibres and matrix retain their physical and chemical identities, yet they produce a combination of properties that cannot be. achieved with either of the constituents. . Existing polymers are mainly blended with different materials with the aim of cost reduction and tailor the product for specific applications. Environmental regulations and ethical concerns have triggered the search for materials that are environmentally friendly. Composite materials (or composites for short) are engineered materials made from two or more Fibre reinforced composite materials- consist of 'fibres' of high strength and modulus embedded in or bonded to a 'matrix' with- distinct interface (boundary) between them. In this form, both fibres and matrix retain their physical and chemical identities, yet they produce a combination .

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031668 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : An improved process of converting tannery waste into Vermicompost

(51) International classification :C02F0103240000, C05F0017050000, C02F0101220000, C14C0003060000, C14C0003320000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)AVANTI LEATHERS LTD.

Address of Applicant :AP 864/29, H Block, 2nd Street, 12th Main road, Anna Nagar, Chennai, Tamil Nadi - 600040. Chennai -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DHANEKULA VASUDEVARAO

Address of Applicant :AVANTI LEATHERS LTD., AP 864/29, H Block, 2nd Street, 12th Main road, Anna Nagar, Chennai, Tamil Nadi - 600040. Chennai -----

(57) Abstract :

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No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241031679 A

(19) INDIA

(22) Date of filing of Application :02/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A METHOD OF RETRIEVING SATELLITE IMAGE

(51) International classification :G06K0009000000, G06K0009620000, G06F0016583000, G06N0003040000, G06K0009460000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ANNAMALAI UNIVERSITY

Address of Applicant :ANNAMALAI NAGAR
CHIDAMBARAM TAMIL NADU INDIA 608002
CHIDAMBARAM -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. K. SEETHARAMAN

Address of Applicant :PROFESSOR AND HEAD,
DEPARTMENT OF COMPUTER & INFORMATION SCIENCE
ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR
CHIDAMBARAM TAMIL NADU INDIA 608002
CHIDAMBARAM -----

(57) Abstract :

TITLE: A METHOD OF RETRIEVING SATELLITE IMAGE APPLICANT: ANNAMALAI UNIVERSITY ABSTRACT The present invention discloses a method of retrieving the satellite colour query imagery by employing Adaptive Gaussian Markov Random Field Model with Bayes Deep Convolutional Neural Network (AGMRF-BDCNN) for high-resolution remote sensing satellite image retrieval. The given input imagery is segregated into the structure, microstructure, and texture components, and the AGMRF-driven features and statistical features are extracted from the segregated components and are formulated as a feature vector of the query imagery. Cosine direction and Bhattacharyya distance measures are deployed to match the feature vector with the feature vector of the feature-vector database. If the query imagery features match the feature-vector database's features, then the reference imagery in the database is marked and indexed. The indexed imageries are retrieved. Three different benchmark datasets, Scene Sat, Pattern Net, and UC Merced, have been used to validate the present AGMRF-BDCNN method. For the Scene Sat dataset, the AGMRF-BDCNN method results in 0.2319 scores for ANMRR and 0.7156 scores for mAP; for the UC Merced dataset, it yields 0.2316 scores for ANMRR and 0.7816 scores for mAP; for PatternNet dataset, it achieves 0.2405 scores for ANMRR and 0.6979 scores for mAP. The obtained results are comparable to state-of-the-art methods.

No. of Pages : 36 No. of Claims : 5

(54) Title of the invention : METHOD AND SYSTEM TO DEVELOP DATA ENCRYPTION AND DECRYPTION USING CRYPTO-STEGO-AI BASED

(51) International classification :H04L0009080000, H04L0029060000, G06T0001000000, H04L0009320000, H04N0001320000 (86) International Application No :PCT// / Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)pavan kumar E Address of Applicant :SAI VIDYA INSTITUTE OF TECHNOLOGY ----- 2)BGANS Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sunil T Address of Applicant :Assistant Professor, Dept of ECE Nagarjuna College of Engineering & Technology Mudugurki, Venkatagiri Kote Post, Devanahalli, Bangalore- 562 164 Bengaluru ----- 2)ASHOK KUMAR S Address of Applicant :Assistant Professor, Dept of Electrical and Electronics Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai – 600069, TamilNadu, Chennai ----- ----- 3)Himanshu Sharma Address of Applicant :Assistant Professor, Dept of CSE, JECRC UNIVERSITY Plot No.IS-2036 to 2039,Ramchandrapura , Sitapura Industrial Area Extension, Near Mahatma Gandhi Hospital, Jaipur, Rajasthan – 303905 Jaipur ----- 4)NIDHI GOUR Address of Applicant :Assistant Professor, Dept of CSE, JECRC UNIVERSITY Plot No.IS-2036 to 2039,Ramchandrapura , Sitapura Industrial Area Extension, Near Mahatma Gandhi Hospital, Jaipur, Rajasthan – 303905 Jaipur ----- 5)ANITHA K Address of Applicant :Professor,Dept of ECE, Prathyusha Engineering College, Poonamallee- Tiruvallur Road, Aranvayal Kuppam Village, Aranvayal Post, Tiruvallur Taluk- 602025 Tiruvallur ----- 6)KARTHIKEYAN R Address of Applicant :Professor,Dept of ECE, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai – 600069 Chennai -----

(57) Abstract :

Securing data encryption and decryption using Cryptography and Steganography techniques with AI based system. Due to recent developments in stego analysis, providing security to personal contents, messages, or digital images using steganography has become difficult. By using stego analysis, one can easily reveal existence of hidden information in carrier files. This invention introduces a novel steganographic approach for communication between two private parties. The approach introduced in this innovation makes use of both steganographic as well as cryptographic techniques. In Cryptography we are using AI based RSA. In Steganography we are using Image Steganography for hiding the data. And we also use Mutual Authentication process to satisfy all services in Cryptography i.e., Access Control, Confidentiality, Integrity, Authentication. In this way we can maintain the data more securely. Since we use AI-based RSA algorithm for securing the data and again on this we perform Steganography to hide the data in an image. Such that any other person in the network cannot access the data present in the network. Only the sender and receiver can retrieve the message from the data.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : NATURAL PAPER PRODUCTS USING BANANA FIBER

(51) International classification :A61K0036880000, A01G0007060000, C08L0001020000, B27N0005000000, C04B0018240000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)V.A.RINSEY ANTONY

Address of Applicant :Head of the Department, Department of Costume Design and Fashion, Sri Krishna Arts and Science College, Coimbatore -641008. -----

2)P. Preetha**Name of Applicant : NA****Address of Applicant : NA**

(72)Name of Inventor :

1)V.A.RINSEY ANTONY

Address of Applicant :Head of the Department, Department of Costume Design and Fashion, Sri Krishna Arts and Science College, Coimbatore -641008 -----

2)P. Preetha

Address of Applicant :III B.Sc., Department of Costume Design and Fashion, Sri Krishna Arts and Science College, Coimbatore - 641008 -----

(57) Abstract :

Banana fiber, also known as musa fiber, is one of the strongest natural fibers on the planet. The natural fiber is made from the stem of the banana tree and is biodegradable as well as extremely robust. The outer sheaths of banana trees produce stronger, sturdier fibers, while the inner sheaths produce softer fibers. Without using any chemicals, the banana fiber paper produces a wonderful outcome. This banana fiber paper can be made with household appliances. We may easily make banana fiber paper with the help of a few containers, a mixer, a jar and a filtration plate. It won't take long to make this banana fiber paper. It can be sundried. This paper can be used as regular paper or as a gift paper, depending on our needs. It is incapable of pollution society in any way. We can make a variety of products with banana fiber. This banana fiber has a lower strength, but it has a nice finish. It's a light weighted fiber. This can easily decay and so many banana plants are wasted day by day but some countries like India can use this banana plant converted into banana fiber and can produce different types of products like dress, paper, handbag, purse, carry bag, etc. this won't cost that much to buy. Instead of cutting off the tree and making the normal paper, we can make use of banana fiber in a valuable manner. It can take only the waste part of the banana plant after the harvest of the banana fruit. This banana waste plant can easily get it. We are not going to spend a single rupee to buy this one. The stem part only we need for this paper making. Remaining part like leaf can be used to serve the food and other part can be used in plate making, this paper gives smooth surface without doing any work on it. It gives a good finish. For the final product, raw edges can be trimmed with scissors and gives a good finish in the edges also. This banana fiber paper not reached good level in the society because of not knowing the good qualities of the banana fiber. Normal paper can pollute because of using the machines and different chemicals which affect people's health. We can create awareness to use this banana fiber paper and reduce the pollution caused by other papers. Banana is one of the world's most well-known and useful plants. Almost every part of this plant can be used, including the fruit, leaves, flower bud, trunk, and pseudo-stem.

No. of Pages : 34 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202241031893 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED INTEGRATED IOT & MACHINE LEARNING HEALTHCARE SYSTEM FOR CANCER CARE AND METHOD THEREOF

(51) International classification :G16H0050200000, A61B0005000000, A61B0005020500, A61B0005024000, G16H0015000000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Amogh Shukla

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu- 632014, India

2)Vinit Juneja

3)Sonakshi Singh

4)Shubh Almal

5)Utkarsh Sharma

6)Utpal Prajapati

7)Rishabh Mishra

8)Debangana Mandal

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amogh Shukla

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu- 632014, India

2)Vinit Juneja

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014, India -

3)Sonakshi Singh

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014, India -

4)Shubh Almal

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014, India -

5)Utkarsh Sharma

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014, India -

6)Utpal Prajapati

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014, India -

7)Rishabh Mishra

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014, India -

8)Debangana Mandal

Address of Applicant :Research Assistant, School of Computer Science & Engineering, Vellore Institute of Technology, Vellore, Tamil Nadu-632014, India -

(57) Abstract :

Disclosed herein is an intelligent cancer care system and method to provide a secured, real-time, virtual platform for medical practitioners (500) to facilitate their decisions on selecting appropriate treatment option for the patients (400) on a case-by-case basis. The system comprises one or more sensor (100), at least one monitoring device (200), and a computing server (300) communicatively coupled to one another in an IoT network. The sensors (100) are adapted to read plurality of health parameters of a patient, which are detected in form of text/video/image data obtained from plurality of pathological analysis including but not limited to blood, urine, stool, cough, RT scans, CT scans, and MRIs tests. The health parameters are associated with tissue/cell conditions of the patient. The monitoring device (200) is configured to receive the health parameters from the sensors (100) on real time basis. The computing server (300) is configured with an artificial intelligence tool to carry out operations of: determining a type/condition/stage of the cancer based on application of the health parameters into a machine learning trained dataset; predicting a recovery possibility value from the determined cancer type/condition/stage by considering plurality of cancer risk factors; and resulting in a medical advice report for the patient based on the predicted recovery possibility value. Fig. 1

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202241032010 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : NEW TECHNOLOGY FOR MAKING OIL SEALS FOR TRANSFORMERS

(51) International classification :C10M0169040000, F16J0015327200, F16J0015324400, C08L0009000000, F02F0011000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Francis Xavier Engineering College | Tirunelveli

Address of Applicant :The Principal, Francis Xavier Engineering College, Tirunelveli – 627003 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. SELVAM N V

Address of Applicant :Mr. SELVAM N V | Assistant Professor | Department of Electrical and Electronics Engineering | Francis Xavier Engineering College | Tirunelveli | Tamil Nadu | India -----

2)Dr. J.JASPER GNANA CHANDRAN

Address of Applicant :Dr. J.JASPER GNANA CHANDRAN | Professor | Department of Electrical and Electronics Engineering | Francis Xavier Engineering College | Tirunelveli | Tamil Nadu | India -----

3)Dr. JUSTIN DIRAVIAM A

Address of Applicant :Dr. JUSTIN DIRAVIAM A | Assistant Professor | Department of Electrical and Electronics Engineering | Francis Xavier Engineering College | Tirunelveli | Tamil Nadu | India -----

4)Mr. SELVAKUMAR.S

Address of Applicant :Mr. SELVAKUMAR.S | Assistant Professor | Department of Electrical and Electronics Engineering | Francis Xavier Engineering College | Tirunelveli | Tamil Nadu | India -----

(57) Abstract :

To overcome the problem of leaking oil in a transformer, we manufacture oil seals based on a new technology. Through this oil seal, we see that the problem of oil leakage in the transformer is removed. To make a new technology key oil seal, we use small particles of gravel, which is mixed with the rubber of the oil seal, to form a new type of oil seal. By using the oil seal of this technology, there is no mistake even if the oil seal is heated, and due to this, the situation of leakage is not created. Oil does not exit the transformer. Thus we see that the transformer oil remains in the transformer rather than falling down, and it does not face any problem to rectify it later.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202241032043 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO ANALYZE THE PROSOCIAL BEHAVIOUR OF EMPLOYEES OF AN ORGANIZATION

(51) International classification :G06Q0010060000, G06N0020000000, G06N0003040000, G06N0007000000, G06K0009000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. C. DHANDAPANI
Address of Applicant :PRINCIPAL, RAJAGOPAL POLYTECHNIC COLLEGE, GUDIYATTAM-632602. Vellore -----
2)DR. A. SHARMILA
3)DR.S.MURALIDHAR
4)EZAZ ABDULSATTAR SHAIKH
5)KARTHIKAYANI.K
6)DR. ABHISHEK
7)N.R.NARESH
8)DR. RAVINDRA KUMAR
9)DR.P.ARULPRAKASH
10)MUGANDA MUNIR MANINI
11)MRS SHYAMALI DAS
12)DR THIMMAIAH BAYAVANDA CHINNAPPA
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR. C. DHANDAPANI
Address of Applicant :PRINCIPAL, RAJAGOPAL POLYTECHNIC COLLEGE, GUDIYATTAM-632602. Vellore -----
2)DR. A. SHARMILA
Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF COMMERCE, JAIN (DEEMED-TO-BE UNIVERSITY) 44/4, DISTRICT FUND ROAD, JAYANAGAR 9TH BLOCK, BANGALORE- 560009 Bangalore -----
3)DR.S.MURALIDHAR
Address of Applicant :ASSOCIATE PROFESSOR/ SCHOOL OF COMMERCE, JAIN DEEMED TO BE UNIVERSITY, BENGALURU, 560069 Bangalore -----
4)EZAZ ABDULSATTAR SHAIKH
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF PSYCHOLOGY RADHABAI KALE MAHILA MAHAVIDYALAYA, AHMEDNAGAR Ahmednagar -----
5)KARTHIKAYANI.K
Address of Applicant :CHENNAI Chennai -----
6)DR. ABHISHEK
Address of Applicant :ASSISTANT PROFESSOR, BABA MASTNATH UNIVERSITY,ROHTAK 124021 Rohtak -----
7)N.R.NARESH
Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF COMMERCE, JAIN (DEEMED-TO-BE UNIVERSITY) JAYANAGAR 9TH BLOCK BENGALURU 560069 Bangalore -----
8)DR. RAVINDRA KUMAR
Address of Applicant :FACULTY OF LIBERAL ARTS, ICFAI UNIVERSITY, TRIPURA 799210 Agarthala -----
9)DR.P.ARULPRAKASH
Address of Applicant :ASSOCIATE PROFESSOR & HEAD, DEPARTMENT OF CSE, RATHINAM TECHNICAL CAMPUS, Eachanari -----
10)MUGANDA MUNIR MANINI
Address of Applicant :SENIOR LECTURER/DEPARTMENT OF ECONOMICS, FINANCE AND ACCOUNTING/KIBABII UNIVERSITY/ BUNGOMA/ 1699-50200 -----
11)MRS SHYAMALI DAS
Address of Applicant :PHD SCHOLAR AT SILICON INSTITUTE OF TECHNOLOGY IN BHUBANESWAR,ODISHA Khordha -----
12)DR THIMMAIAH BAYAVANDA CHINNAPPA
Address of Applicant :DEPARTMENT OF MANAGEMENT STUDIES , IVANE JAVANKISHI TBILISI STATE UNIVERSITY OF GEORGIA -----

(57) Abstract :
Machine Learning based approach to analyze the Prosocial Behaviour of Employees of an Organization is the proposed invention. The invention aims at analyzing the impact of prosocial behaviours and its attributes on employees of an organization. The invention implements algorithms of machine learning to analyze the strengths and weakness of employees of an organization.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202241032044 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Green Finance awareness as a Mediator in Relationship between Green Finance Strategies and Industrial-Environmental Sustainability

(51) International classification :G06Q0030020000, G06Q0040080000, G06Q0040020000, G06Q0040060000, G06Q0010060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr A M Mahaboob Basha
Address of Applicant :Patent Submission -----
2)Dr Manisha Jaiswal
3)Dr. Mohd Shamshad
4)Dhilipan .C
5)Dr. A. C. Deepa
6)Geethu Krishna P G
7)Dr.Devendra H Lodha
8)Dr. Niket Shukla
9)C. Prakash
10)Ayaz Ahmad
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr A M Mahaboob Basha
Address of Applicant :Associate Professor Department of Management Studies Narayana Engineering College (Autonomous), Gudur, Nellore District Pin:524101 State: Andhra Pradesh Country: India Gudur -----
2)Dr. Mohd Shamshad
Address of Applicant :Assistant Professor Department: Finance & Commerce College Name with address: Galgotias University, Greater Noida State: Uttar Pradesh District: Gautam Budh Nagar Country: India -----
3)Dr Manisha Jaiswal
Address of Applicant :Assistant professor College Name with address: Daulat Ram College, 4 Patel marg, Maurice nagar, University of Delhi State:Delhi Country: India -----
4)Dhilipan .C
Address of Applicant :: Research Scholar Department: Management Pondicherry University, Pondicherry Pondicherry India -----
5)Dr. A. C. Deepa
Address of Applicant :Assistant Professor Department: Corporate Secretaryship - Aided College Name with address: Erode Arts and Science College (Autonomous)Erode Pin: State: Tamilnadu District: Erode Country: India -----
6)Geethu Krishna P G
Address of Applicant :Assistant Professor Department: Department of Management Studies College Name with address: St. Teresa's College (Autonomous), Ernakulam, Kerala State: Kerala District: Ernakulam Country: India -----
7)Dr.Devendra H Lodha
Address of Applicant :Assistant Professor Gandhinagar Institute of Management , Gandhinagar University Khatraj-Kalol Road, Moti Bhoyan, Gandhinagar district, Kalol, Gujarat State :Gujarat District :Gandhi Nagar Country India -----
8)Dr. Niket Shukla
Address of Applicant :Associate Professor & Head Department: Department of Commerce and Management College Name with address: Dr. C. V. Raman University, Kargi Road, Kota, Dist. Bilaspur, Chhattisgarh State: Chhattisgarh Country: India -----
9)C. Prakash
Address of Applicant :Associate professor Department: MBA College Name with address: Sree Rama Engineering college, Tirupati State: Andhra Pradesh District: Tirupati Country: India -----
10)Ayaz Ahmad
Address of Applicant :Assistant Professor Department: Mathematics College Name with address: National Institute of Technology, Patna State: Bihar District: Patna Country: India -----

(57) Abstract :

The aim of the descriptive research design was to know the mediating role of consumer awareness with respect to green finance products and its impact on industrial and organizational sustainability. The researcher used structured questionnaire to collect the opinion from various respondents. The outcome of the research also witnessed that the GFI, AGFI, TLI, NFI all the goodness of fit index values have proved that >.70 which explains that the developed model is good enough to measure the awareness of the consumer with respect to green finance products and services and its impact on industrial and environmental sustainability. In fact, the outcome of the research can be generalized under any circumstances to assess the customer awareness with respect to green financial products and services and its corresponding impact on industrial-environmental sustainability. The invention is new with mediator as consumer awareness on green financial products and services. The invention is having social relevance and it is suitable to assess and to make them to utilize the green financial products and services. The various green financial products like: carbon finance, green life insurance, green business insurance, green infrastructure insurance and other green products and services are essential to protect the industrial-environmental sustainability in the contemporary scenario.

No. of Pages : 26 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032072 A

(19) INDIA

(22) Date of filing of Application :04/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A MACHINE LEARNING BASED APPROACH FOR ANALYSING THE EFFECT OF PHARMACOGENETICS ON ANTI HYPERTENSIVE DRUGS

(51) International classification :A61K0039395000, G06N0020000000, G06F0016280000, G06K0009000000, G06F0040200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PROF .S. JEELANI
Address of Applicant :DIRECTOR, CDVL, HCU, GOLDEN THRESHOLD CAMPUS, HYDERABAD-500001, TELANGANA, INDIA Hyderabad -----
2)DR. K.L. VASUNDHARA
3)DR. GANGARAJU LAKSHMI KAMESWARI
4)DR. K. SRIHARI
5)DR.P.V.JANARDHANA REDDY
6)DR.P.PAVANKUMAR
7)ARCHANA PATIL
8)GUNDA MAHESH
9)PROF. M. V. RAMANA MURTHY
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)PROF .S. JEELANI
Address of Applicant :DIRECTOR, CDVL, HCU, GOLDEN THRESHOLD CAMPUS, HYDERABAD-500001, TELANGANA, INDIA Hyderabad -----
2)DR. K.L. VASUNDHARA
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MATHEMATICS, STANLEY COLLEGE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, ABIDS, HYDERABAD, TELANGANA 500001, INDIA Hyderabad -----
3)DR. GANGARAJU LAKSHMI KAMESWARI
Address of Applicant :ASSISTANT PROFESSOR, HOD OF DEPARTMENT OF MATHEMATICS, DEPT.OF APPLIED SCIENCES & HUMANITIES, MATURI VENKATA SUBBA RAO (MVSR) ENGINEERING COLLEGE, NADERGUL, HYDERABAD, TELANGANA STATE, INDIA-501510 Hyderabad -----
4)DR. K. SRIHARI
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS AND HUMANITIES, MAHATMA GANDHI INSTITUTE OF TECHNOLOGY KOKAPET (VILLAGE), GANDIPET (MANDAL), CHAITANYA BHARATHI (PO) RANGA REDDY DIST. HYDERABAD - 500075, TELANGANA. INDIA Ranga reddy -----
5)DR.P.V.JANARDHANA REDDY
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MATHEMATICS AND HUMANITIES, MAHATMA GANDHI INSTITUTE OF TECHNOLOGY KOKAPET (VILLAGE), GANDIPET (MANDAL), CHAITANYA BHARATHI (PO) RANGA REDDY DIST. HYDERABAD - 500075, TELANGANA. INDIA Ranga Reddy -----
6)DR.P.PAVANKUMAR
Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF CSE, RISHI M.S INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN, NIZAMPET CROSS ROAD, NEAR JNTUH, KUKATPALLY, HYDERABAD, TELANGANA 500090 INDIA Ranga Reddy -----
7)ARCHANA PATIL
Address of Applicant :ASSISTANT PROFESSOR, DEPT OF COMPUTER SCIENCE AND ENGINEERING, RISHI MS INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN, HYDERABAD TELANGANA 500090, INDIA Hyderabad -----
8)GUNDA MAHESH
Address of Applicant :TECHNICAL DELIVERY MANAGER, INFORMATION TECHNOLOGY, FLAT 201, SRINILAYAM, SAI AISHWARYA LAYOUT, KHAJAGUDA, HYDERABAD 500008 TELANGANA, INDIA Hyderabad -----
9)PROF. M. V. RAMANA MURTHY
Address of Applicant :PROFESSOR & HOD DEPARTMENT OF MATHEMATICS AND HUMANITIES, MAHATMA GANDHI INSTITUTE OF TECHNOLOGY KOKAPET (VILLAGE), GANDIPET (MANDAL), CHAITANYA BHARATHI (PO) RANGA REDDY DIST. HYDERABAD - 500075, TELANGANA. INDIA Hyderabad -----

(57) Abstract :

A Machine Learning based approach for analyzing the effect of Pharmacogenetics on Anti-Hypertensive drugs is the proposed invention. The proposed invention aims at concentrating the study especially on anti-hypertensive drugs. The invention will give results in the form of understanding the positive and negative traits of anti-hypertensive drugs.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202241032073 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED APPROACH TO PREDICT THE REGENERATION OF GENETICALLY MODIFIED PLANTS AND DETECT THEIR CROP YIELD QUALITY

(51) International classification :C12N0015820000, G06K0009620000, G05B0013040000, G06K0009000000, G06N0020000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)RAVI KUMAR BANOTH
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, OSMANIA UNIVERSITY, HYDERABAD, TELANGANA 500007 Medchal -----
2)DR. MOHD. SHAIKHUL ASHRAF
3)PRADIP KUMAR SAINI
4)DR. KAUSHALYA THOPATE
5)PROF. MANJIRI ULHAS KARANDE
6)PROF. (DR.) AVADHESH KUMAR KOSHAL
7)DR. SAYYAD SHAHIM FATIMA KARIM
8)ANIKKETT SRIVASTAVA
9)DR.P.ARULPRAKASH
10)DR. HARISHCHANDER ANANDARAM
11)DR. DURGA PRASAD GANGODKAR
12)PROF. PRASHANT ADSULE
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)RAVI KUMAR BANOTH
Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, OSMANIA UNIVERSITY, HYDERABAD, TELANGANA 500007 Medchal -----
2)DR. MOHD. SHAIKHUL ASHRAF
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, HKM GOVT. DEGREE COLLEGE BANDIPORA, KASHMIR Bandipora -----
3)PRADIP KUMAR SAINI
Address of Applicant :RESEARCH SCHOLAR (PH.D.), DEPARTMENT OF CROP PHYSIOLOGY, ANDUAT, KUMARGANJ-224229, AYODHYA (UTTAR PRADESH) Ayodhya -----
4)DR. KAUSHALYA THOPATE
Address of Applicant :VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE Pune -----
5)PROF. MANJIRI ULHAS KARANDE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, PADM. DR. V. B. KOLTE COLLEGE OF ENGINEERING, MALKAPUR-443101 Buldhana -----
6)PROF. (DR.) AVADHESH KUMAR KOSHAL
Address of Applicant :PROFESSOR, FACULTY OF SCIENCE, MOTHERHOOD UNIVERSITY, ROORKEE, HARIDWAR, PIN 247661 Roorkee -----
7)DR. SAYYAD SHAHIM FATIMA KARIM
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, DR. RAFIQ ZAKARIA COLLEGE FOR WOMEN'S, AURANGABAD- 431001 Aurangabad -----
8)ANIKKETT SRIVASTAVA
Address of Applicant :DELHI PUBLIC SCHOOL, INDIRAPURAM, GHAZIABAD-201010 Ghaziabad -----
9)DR.P.ARULPRAKASH
Address of Applicant :ASSOCIATE PROFESSOR, RATHINAM TECHNICAL CAMPUS,EACHANARI, COIMBATORE-641021. Coimbatore -----
10)DR. HARISHCHANDER ANANDARAM
Address of Applicant :ASSISTANT PROFESSOR, CENTRE FOR EXCELLENCE IN COMPUTATIONAL ENGINEERING AND NETWORKING, AMRITA VISHWA VIDYAPEETHAM, COIMBATORE-641112, TAMIL NADU, INDIA Coimbatore -----
11)DR. DURGA PRASAD GANGODKAR
Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, GRAPHIC ERA DEEMED TO BE UNIVERSITY, DEHRADUN, UTTARAKHAND, INDIA Dehradun -----
12)PROF. PRASHANT ADSULE
Address of Applicant :AJEENKYA D Y PATIL UNIVERSITY- SCHOOL OF HOTEL MANAGEMENT, PUNE Pune -----

(57) Abstract :
Artificial Intelligence based approach to predict the Regeneration of Genetically Modified Plants and Detect their Crop Yield Quality is the proposed invention. The invention focuses on designing an Artificial Intelligence based framework to predict the quality and strength of genetically modified plants. The invention also aims at increasing and detecting crop field.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202241032093 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : NEW TECHNOLOGY TO PROTECT THE HOUSE FROM RAIN WATER

(51) International classification :G06F0011340000, G06F0011300000, G06Q0050080000, A63F0003000000, G05B0019042000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)M. Ganthimathi

Address of Applicant :M. Ganthimathi Associate Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

2)Dr. P. Deepa

3)M. Buvaeswari

4)S.Punitha

5)A.Nivetha

6)M. S. Soundarya

7)T. Divya

8)R. Nivethitha

9)J.Ramya

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)M. Ganthimathi

Address of Applicant :M. Ganthimathi Associate Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

2)Dr. P. Deepa

Address of Applicant :Dr. P. Deepa Associate Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

3)M. Buvaeswari

Address of Applicant :M. Buvaeswari Assistant Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

4)S.Punitha

Address of Applicant :S.Punitha Assistant Professor Department of ECE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

5)A.Nivetha

Address of Applicant :A.Nivetha Assistant Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

6)M. S. Soundarya

Address of Applicant :M. S. Soundarya Assistant Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

7)T. Divya

Address of Applicant :T. Divya Assistant Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

8)R. Nivethitha

Address of Applicant :R. Nivethitha Assistant Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

9)J.Ramya

Address of Applicant :J.Ramya Assistant Professor Department of CSE Muthayammal Engineering College Rasipuram - 637 408, Namakkal Dist., Tamil Nadu -----

(57) Abstract :

Due to accumulation of water around the house in the form of natural calamity, whether it is flood, or due to excessive rain in any area, considering the importance of home security, we have come up with online internet software. Let's build a monitoring technology. Its provides information to the owner of the house, and even before water logging, Provides enough time to the owner, of the house for disaster management. This technology can be easily used in domestic and industrial areas where construction work is done on large machines and costly valuables are avoided in industrial areas. It is a software technology designed from a security point of view. Use of this technique will be beneficial. The complete knowledge of this technology, we present through this innovation. The description of which can be easily understood on the basis of drawing and description, and this technique can be constructed.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202241032095 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : NOVEL SPRAYING TECHNIQUE FOR THE IMPROVEMENT IN ELECTRICAL CONDUCTIVITY OF CFRP

(51) International classification :C09D0175080000, B29K0707040000, B29K0075000000, B29K0307040000, D01F0009120000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Indian Space Research Organisation Address of Applicant :Department of Space, Antariksh Bhavan, New BEL Road, Bangalore 560094 Bangalore ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dhaval A. Vartak Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad ----- 2)Yogesh S. Ghotekar Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad ----- 3)Nandini A. Deshpande Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad ----- 4)Sharad Shukla Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad ----- 5)Nitinkumar Sharma Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad ----- 6)Vimal M. Shah Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad ----- 7)Raghava Rao Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad ----- 8)Dr. B. S. Munjal Address of Applicant :Space Applications Centre, Indian Space Research Organization, Ahmedabad – 380015 Ahmedabad -----

(57) Abstract :

A process for fabricating Carbon Fiber-Reinforced Plastics (CFRP) infused with Carbon Nanotubes comprising the steps of adding a solvent to a pre-weighed amount of Carbon Nanotubes to obtain a solvent solution. The solvent is ultra-sonicated for a period of time. A resin is added to the solvent solution. The solvent solution with the resin is stirred, at an elevated temperature, to obtain a Carbon Nanotube-resin mixture. A hardener is added to the Carbon Nanotube-resin mixture at ambient temperature. The hardener and the Carbon Nanotube-resin mixture are stirred at ambient temperature to obtain a final mixture. The final mixture is sprayed onto a carbon fiber sheet using a spraying gun, at an ambient temperature of with HPLV gun. The carbon fiber sheets are stacked and vacuum bagged. The carbon fiber sheets are cured under vacuum at elevated temperature to fabricate CFRP infused with Carbon Nanotubes for aerospace applications.

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032103 A

(19) INDIA

(22) Date of filing of Application :04/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTING FAKE NEWS USING DEEP LEARNING AND TOPIC MODELLING TECHNIQUES

(51) International classification	:G06Q0050000000, H04L0012580000, G06N0003080000, G06F0016350000, H04L0012180000	(71)Name of Applicant : 1)Dr. MARY SOWJANYA ALAMANDA (Assistant Professor) Address of Applicant :Department of Computer Science & Systems Engineering AU College of Engineering (A) Andhra University Visakhapatnam – 530017 Visakhapatnam -----
(86) International Application No	:PCT//	2)JUTHUKA ARUNA DEVI (RESEARCH SCHOLAR) Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. MARY SOWJANYA ALAMANDA (Assistant Professor) Address of Applicant :Department of Computer Science & Systems Engineering AU College of Engineering (A) Andhra University Visakhapatnam – 530017 Visakhapatnam -----
(61) Patent of Addition to Application Number	:NA	2)JUTHUKA ARUNA DEVI (RESEARCH SCHOLAR) Address of Applicant :Department of Computer Science & Systems Engineering AU College of Engineering (A) Andhra University Visakhapatnam – 530017 Visakhapatnam -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD AND SYSTEM FOR DETECTING FAKE NEWS USING DEEP LEARNING AND TOPIC MODELLING TECHNIQUES ABSTRACT The present invention relates to a method and system for detecting fake news using deep learning and topic modelling techniques. The method and system utilizes a deep learning model, and a topic or text modelling technique for transmitting the plurality of data and content in social media network, inferring social media network users in the social media network, and classifying, using the deep learning model, pathways over which the plurality of content is transmitted through the social media network. The method and system then takes an action using the topic modelling, on one or more of the plurality of messages that are transmitted through the social media network based on the classification of the pathways over which the plurality of messages is transmitted through the social media network and the inferred embedding of the social media network.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202241032104 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYSTEM FOR SECURED DEFENSE COMMUNICATION AND METHOD THEREOF

(51) International classification :A61B0005000000, A61B0005047600, G06F0003010000, A61B0005047800, A61B0005048400 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Woxsen University Address of Applicant :Kamkole Village, Sadasivpet, Sangareddy District, Hyderabad, Telangana, India – 502345 Hyderabad ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sudarshan Chakra Mandal Address of Applicant :Project Engineer, School of Technology Woxsen University, Kamkole Village, Sadasivpet, Sangareddy District, Hyderabad, Telangana, India – 502345 Hyderabad ----- ----- 2)Vishal Kumar Sharma Address of Applicant :Project Engineer, School of Technology Woxsen University, Kamkole Village, Sadasivpet, Sangareddy District, Hyderabad, Telangana, India – 502345 Hyderabad ----- ----- 3)Prof. Reddy Sekhar K Address of Applicant :Assistant Professor, School of Technology, Woxsen University, Kamkole Village, Sadasivpet, Sangareddy District, Hyderabad, Telangana, India – 502345 Hyderabad ----- -----

(57) Abstract :

A system and method for short to long range of secure defense communication which acquire the brain or EEG signals from a head wearable device and such brain signal data is considered as the determining parameter to establish communication among team members. As there is no use of voice signals in the present communication system it can help in concealing the user identity. This communication system do not need the team members to be in line of sight as the output of the brain signals can be seen on a display interface. The system is compact which aids in concealing the equipment work by the user, and also need less power supply. Fig 3 is the exemplary embodiment of the present communication system.

No. of Pages : 38 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2022

(21) Application No.202241032108 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : IMPLEMENTATION OF SMART MOBILE ROBOT SYSTEM USING ARTIFICIAL INTELLIGENCE (AI)

(51) International classification :G05D0001020000, G05D0001000000, B25J0005000000, B25J0009160000, B25J0009080000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. S Padmakala
Address of Applicant :Professor, Department of CSE, St. Joseph's Institute of Technology, OMR, Chennai Pin: 600119, State: Tamilnadu, Country: India -----
2)Dr. A.Lourdes Mary
3)Mr.Vijay J
4)Dr.Karthikeyan R
5)Mrs. Rashmi H C
6)Dr.Anitha K
7)Mr.P. Vinayagam
8)Mrs.S Supriya
9)Mrs.V.Ramya
10)Mrs.R.Prathipa
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. S Padmakala
Address of Applicant :Professor, Department of CSE, St. Joseph's Institute of Technology, OMR, Chennai Pin: 600119, State: Tamilnadu, Country: India -----
2)Dr. A.Lourdes Mary
Address of Applicant :Associate Professor, Department of Computer science and Engineering, Rohini College of Engineering and Technology, Near Anjugammam Junction, Palkulam, Kanyakumari District, Pin: 629401 State: Tamilnadu, Country: India -----
3)Mr.Vijay J
Address of Applicant :Assistant Professor (G-II), Department of Electronics and Communication Engineering, Designation, Aarupadai Veedu Institute of Technology, Vinayaka Mission's Research Foundation, Pin: 603105 State: Tamilnadu, Country: India -----
4)Dr.Karthikeyan R
Address of Applicant :Professor, Department of Electronics and Communication Engineering, Chennai Institute of Technology, Sarathy Nagar, Kundrathur, Chennai Pin: 600069, State: Tamilnadu, Country: India -----
5)Mrs. Rashmi H C
Address of Applicant :Assistant Professor, Department of ECE, GSSS Institute of Engineering & Technology for Women, KRS Road, Metagalli Industrial Area, Mysuru, PIN- 570016, State: Karnataka, Country: india -----
6)Dr.Anitha K
Address of Applicant :Professor, Department of Electronics and Communication Engineering, Prathyusha Engineering College, PoonamalleeTiruvallur Road, Aranvayal Kuppan Village, Aranvayal Post, Tiruvallur Taluk Pin: 602025, State: Tamilnadu, Country: India -----
7)Mr.P. Vinayagam
Address of Applicant :Assistant Professor, ECE, Velammal Engineering College, Redhills Ambattur road, Surapet, Chennai. Pin: 600066, State: Tamilnadu, Country: India -----
8)Mrs.S Supriya
Address of Applicant :Assistant Professor Faculty of Computer Science Engineering, Sathyabama Institute of Science and Technology, Chennai Pin: 600119, State: Tamilnadu, Country: India -----
9)Mrs.V.Ramya
Address of Applicant :Assistant Professor, Department of ECE, Kings Engineering College, Irunkatukottai, Chennai, Pin:602117 State: Tamilnadu, Country: India -----
10)Mrs.R.Prathipa
Address of Applicant :Associate Professor, Department of ECE, Panimalar Institute of Technology, Poonamallee, Chennai, Pin: 600123 Tamilnadu, India -----

(57) Abstract :
Implementation of smart mobile robot system using Artificial intelligence (AI) Abstract: If the environment is unfamiliar to this sensor-based mobile robot navigation system demonstrated in this paper, it makes no difference. An obstacle-filled environment can be navigated using Sun SPOT technology. In an unknown environment with obstacles, this system allows remote control of a mobile robot's movement. This feature is useful in many situations. Demonstrate the effectiveness and validity of the proposed fuzzy control strategy for a wheeled mobile robot. It avoids obstacles and keeps its speed constant. Khepera, an autonomous mobile robot with a free-range spot, was fitted with the remote method. This is exactly what happened. The results of the experiments and the positive results of avoiding obstacles in unfamiliar environments are used to demonstrate how and how well the sensor-based remote control strategy works.

No. of Pages : 12 No. of Claims : 8

(54) Title of the invention : The main Impact of Mobile Commerce in wealth creation and economic growth in various developing countries

(51) International classification :G06Q0020320000, G06Q0030020000, G06Q0030060000, G06Q0030040000, G06Q0050000000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Dr B Arthi Address of Applicant :Assistant Professor, PG & Research Department of commerce, Urumu Dhanalakshmi college, Katur (P.O), Trichy, Tamilnadu, India ----- 2)Dr P Parimaladevi 3)Dr S Karpagalakshmi 4)M Harish Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr B Arthi Address of Applicant :Assistant Professor, PG & Research Department of commerce, Urumu Dhanalakshmi college, Katur (P.O), Trichy, Tamilnadu, India ----- 2)Dr P Parimaladevi Address of Applicant :Associate Professor & Head, Department of E-Commerce, Vellalar College for women(Autonomous), Erode-12, Tamilnadu, India ----- 3)Dr S Karpagalakshmi Address of Applicant :Teaching Assistant, Department of International Business, Alagappa University, Karaikudi, Tamilnadu, India ----- 4)M Harish Address of Applicant :Assistant Professor,Department of commerce, Musaliar college of arts & science, Pathanamtitta, Kerala,India -----

(57) Abstract :

The main Impact of Mobile Commerce in wealth creation and economic growth in various developing countries Abstract: M-commerce has recently received a lot of attention in wealthier countries. Poor countries hope to leapfrog the developed world by capitalizing on the massive global increase in mobile phone use. Although mobile phones outnumber fixed-line phones in many developing countries, this is not always the case. M-commerce is changing the way people buy products by introducing new business models and providing customers with unique benefits like faster delivery and data portability. There is a significant disparity in mobile commerce between wealthy and impoverished areas. The majority of study has focused on the social and economic consequences of mobile commerce in industrialized economies. The purpose of this research is to investigate the impact of mobile commerce on rural farming and fishing communities in developing countries. Mobile commerce, often known as m-commerce, is growing in popularity. China has various opportunities to gain global leadership in mobile commerce innovation. The goal of this survey is to find out what users think about China's m-commerce development. The amount of businesses that employed business analytics to track their progress was a good predictor of mobile commerce growth. Surveys were used to elicit user opinions on the evolution of m-commerce, and data was analyzed using ANOVA.

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032111 A

(19) INDIA

(22) Date of filing of Application :04/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : Driver Alerting System in Automobiles using Lane Correction and Automatic Speed Reduction

(51) International classification :H04L0029080000, B60W0050140000, G08G0001160000, B60Q0009000000, B60W0030120000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)R.M.K. College of Engineering and Technology

Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu, India – 601 206. Chennai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. N. Kalaiarasi

Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu, India – 601 206. Chennai -----

2)Dr. Catherine T. J.

Address of Applicant :R.M.K. College of Engineering and Technology, RSM Nagar, Gummidipoondi Taluk, Puduvoyal, Thiruvallur, Tamil Nadu, India – 601 206. Chennai -----

(57) Abstract :

The present invention describes the design and development of a system to alert the driver of the vehicle and thus helps to prevent accidents on the road. The objective of the present invention is to design a cost-effective and highly efficient automotive road-safety system. The PIC-microcontroller (108) is chosen to reduce the complexity and Infrared sensors (106, 107) to reduce the cost. The IR sensors (106, 107) continuously monitor the lane boarders and inputs to the PIC controller (108). The buzzer (109) goes off if vehicle crosses the lane boarder. The vehicle speed is reduced by decreasing the fuel injected(207). In case of any collision, a call (208) is initiated to the last dialled number. (Refer Fig. 1 and 2)

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/06/2022

(21) Application No.202241032120 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Design system of autonomous Vehicle State Estimation and Mapping- Using AI Approach

(51) International classification :B60R0016023000, G08G0001096200, G06N0020200000, B60W0040120000, G01D0021020000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. GURURAMA SENTHILVEL. P, Galgotias University
Address of Applicant :Associate Professor, School of Computing Science and Engineering, Galgotias University, Plot No. 2, Yamuna Express Way, Opposite, Buddha International Circuit Sector 17A, Greater Noida, Uttar Pradesh - 203201 Greater Noida -----
2)Mr. DHINAKARAN. M, Galgotias College of Engineering and Technology
3)Dr. SHAJAHAN BASHEER, Galgotias University
4)Mr. PERIYASAMY.P. N, Hindusthan Institute of Technology
5)Dr. MANIKANDAN THIRUMALAISAMY, Galgotias University
6)Mr. K. SELVAMURUGAN, G.V.Acharya Institute of Engineering & Technology
7)Dr. D. USHA, Mother Teresa Women's University
8)Dr. A. ANBARASA PANDIAN, Panimalar Institute of Technology
9)Dr. OM PRAKASH SHARMA, SRM University Sikkim
10)Ms. HEMAMALINI.S, SRM University Sikkim
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr. GURURAMA SENTHILVEL. P, Galgotias University
Address of Applicant :Associate Professor, School of Computing Science and Engineering, Galgotias University, Plot No. 2, Yamuna Express Way, Opposite, Buddha International Circuit Sector 17A, Greater Noida, Uttar Pradesh - 203201 Greater Noida -----
2)Mr. DHINAKARAN. M, Galgotias College of Engineering and Technology
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Galgotias College of Engineering and Technology Knowledge Park-II, Greater Noida, U.P. 201310 Greater Noida -----
3)Dr. SHAJAHAN BASHEER, Galgotias University
Address of Applicant :Professor, School of Computing Science and Engineering, Galgotias University, Plot No. 2, Yamuna Express Way Opposite, Buddha International Circuit Sector 17A, Greater Noida Uttar Pradesh - 203201 Greater Noida -----
4)Mr. PERIYASAMY.P. N, Hindusthan Institute of Technology
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Hindusthan Institute of Technology Othakkalmadapam, Coimbatore-641032 Tamilnadu, India Coimbatore -----
5)Dr. MANIKANDAN THIRUMALAISAMY, Galgotias University
Address of Applicant :Associate Professor, School of Computing Science and Engineering Plot No. 2, Yamuna Express way, Opposite, Buddha International Circuit Sector 17A, Greater Noida, Uttar Pradesh - 203201 Greater Noida -----
6)Mr. K. SELVAMURUGAN, G.V.Acharya Institute of Engineering & Technology
Address of Applicant :Assistant professor, Department of Computer Science & Engineering, G.V. Acharya Institute of Engineering & Technology, Veeracharya Education Complex, Shelu/Damat (Opp.Fly. Station) Talk. Karjat, Dist. Raigad,410201 Karjat -----
7)Dr. D. USHA, Mother Teresa Women's University
Address of Applicant :Assistant Professor, Department of Computer Science, Mother Teresa Women's University Kodaikanal – 624101 Tamilnadu, India Kodaikanal -----
8)Dr. A. ANBARASA PANDIAN, Panimalar Institute of Technology
Address of Applicant :Professor, Department of Computer Science & Engineering, Panimalar Institute of Technology, Poonmallae, Chennai - 600123 Chennai -----
9)Dr. OM PRAKASH SHARMA, SRM University Sikkim
Address of Applicant :Associate Professor, School of Information Technology, 5thMile, Tadong, Ranipool P.O. Gangtok, Sikkim - 737102 Sikkim -----
10)Ms. HEMAMALINI.S, SRM University Sikkim
Address of Applicant :Assistant professor, School of Information Technology, SRM UNIVERSITY Sikkim, 5thMile, Tadong, Ranipool P.O. Gangtok, Sikkim - 737102 Sikkim ----

(57) Abstract :
[24] The development of automobiles fitted with sensors to get standardized information such as engine speed and vehicle speed from the in-vehicle controller area network (CAN) system has come from advancements in vehicle technology. However, obtaining proprietary information from CAN frames, such as brake pedal and steering wheel function, which is critical for driver behavior research, can be difficult. We offer a method for the automated extraction of proprietary in-vehicle information utilizing sensor data correlated with the required information, which needs electronic control unit identification analysis and accompanying data interpretation. First, the suggested system uses inertial measurement unit and global positioning system readings to determine the vehicle's driving condition utilizing threshold, random forest, and long short-term memory-based algorithms. The system then uses the estimation to split in-vehicle CAN frames and scores each segment using our scoring approach to pick eligible candidates by comparing each candidate to its estimation using the proposed distance matching strategy. The estimating scheme is linked to a nonlinear model-predictive control (NMPC) system that oversees vehicle control. We test the suggested technology in a real-world setting with actual automobiles in an urban setting. The accuracy of the driving condition prediction is shown in the performance evaluation, implying that the given methodologies are practical for the autonomous extraction of proprietary in-vehicle information.

No. of Pages : 11 No. of Claims : 5

(54) Title of the invention : SMART ALL COLLECTORS STICK

(51) International classification :B25B0027140000, E04B0001680000, F16L0033020000, E04F0021165000, F16L0055000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)V. RAGUNATH

Address of Applicant :45, INDIRA NAGAR, KONDUR, CUDDALORE, TAMILNADU, INDIA-607002. -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)V. RAGUNATH

Address of Applicant :45, INDIRA NAGAR, KONDUR, CUDDALORE, TAMILNADU, INDIA-607002. -----

(57) Abstract :

Well over SMART ALL COLLECTORS STICK that's SACS when a person holds hand in Handel the first and foremost thing no.11 which is the main handle in the left hand and second handle no.12 is as shown in the diagram, when the pressured is applied on the 1 wooden handle&11 by both hand The 12mm stainless steel(ss)hose which is connected by wooden Handel moves towards forward direction internally through the hallow 22mm aluminum pipe, the hallow aluminum pipe has 3niolen bush guide 1niolen guide is fixed at the top of aluminum pipe and 2niolen guide in bottom 3 is fixed in ss hose middle nearby bottom. So it won't get disturbed moving forward and backwards direction & at bottom 12mm SS hose MS bush inserted. MS round bush is capable of holding 8 round road finger type arrangement as shown in the diagram this 08 GI round road will open like flower due to the pressure applied on the both the Handel, so that it has capable of holding the materiel in flower jaw, after work is finished it come to original position by recalling action provided with help of the spring in side ss hose assembly and safety inter lock clip arrangement to hold the 12mm ss hose during work also.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032168 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SOLAR BASED WIRELESS POWER TRANSMISSION

(51) International classification :G06Q0010000000, H01R0031060000, H01R0024280000, F21V0029750000, F01D0015100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mrs. P.V.SIREESHA

Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING GURUNANAK INSTITUTIONS TECHNICAL CAMPUS HYDERABAD TELANGANA 501506 Hyderabad -----

2)Mr. GOKUL RAM THANGAMANI

3)Mr. SATHIK BASHA. A

4)Dr. E.VANI

5)Dr. M.VIJAYAKUMAR

6)Mr. M.N.KATHIRVEL

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mrs. P.V.SIREESHA

Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING GURUNANAK INSTITUTIONS TECHNICAL CAMPUS HYDERABAD TELANGANA 501506 Hyderabad -----

2)Mr. GOKUL RAM THANGAMANI

Address of Applicant :PRINCIPAL ENGINEER DEPARTMENT OF GLOBAL DATA ENGINEERING DRISCOLL'S INC DENVER COLORADO 80134 -----

3)Mr. SATHIK BASHA. A

Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING AL AMEEN ENGINEERING COLLEGE ERODE 638104 TAMILNADU, INDIA. Erode -----

4)Dr. E.VANI

Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING K.S.R. COLLEGE OF ENGINEERING, K.S.R. KALVI NAGAR, TIRUCHENGODE - 637 215 , NAMAKKAL (D.T), TAMILNADU,INDIA Namakkal -----

5)Dr. M.VIJAYAKUMAR

Address of Applicant :PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING K.S.R. COLLEGE OF ENGINEERING, K.S.R. KALVI NAGAR, TIRUCHENGODE - 637 215 , NAMAKKAL (D.T), TAMILNADU,INDIA Namakkal -----

6)Mr. M.N.KATHIRVEL

Address of Applicant :SKM ANIMAL FEEDS & FOODS (INDIA) PRIVATE LIMITED, CHAVADIPALAYAM ROAD, NANJAI UTHUKKULI, MODAKURICHI. ERODE-638104 TAMILNADU INDIA. Erode -----

(57) Abstract :

In the near future, rather than later because of broad utilization of energy, restricted supply of assets and the contamination in climate from present assets for example (wood, coal, petroleum derivative) and so on, elective wellsprings of energy and better approaches to produce energy which are effective, cost successful and produce least misfortunes are of extraordinary concern. Remote power (Power) transmission (WET) has turned into a point of convergence as exploration perspective and these days' lies at top 10 future hot consuming advancements that are under research nowadays. In this paper, we present the idea of sending power remotely to lessen transmission and conveyance misfortunes. The wired dissemination misfortunes are 70 - 75% proficient. We cannot envision the world without electric power, which is proficient, practical and produce least misfortunes, is of extraordinary concern. .This paper lets us know the advantages of utilizing WET innovation uncommonly by utilizing Solar based Power satellites (SBPS) and furthermore centers that how we make electric framework cost viable, enhanced and efficient. Additionally, endeavors are made to feature future issues in order to file a few arising arrangements. This undertaking depends on the most proficient method to communicate electrical power with next to no wires, with a small scale by utilizing solar-based energy. The power is moved remotely through an inductive coupling as a receiving wire. This strategy, we never again need muddled with the link passing around us, with remote power we can charge and make remote power as an info source to electronic hardware like Hand phone, MP3 Player, all that works use batteries source or electrical wiring.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/06/2022

(21) Application No.202241032179 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : The Role of the Internet of things on the Relationship between Job Balance and Employee Productivity in the IT Industry

(51) International classification :G06Q0010060000, G06Q0010100000, G08B0021040000, H04L0029080000, G06K0007140000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr. Bhawani Sankar Panigrahi
Address of Applicant :Assistant Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad -----
2)Mrs. B. Vasavi
3)Dr. R Karthikeyan
4)Dr. Jagadish R M
5)Mr. Rama Chandra Rao Meka
6)Mr. Bijaya Kumar Sethi
7)Dr. Prakash Kumar Sarangi
8)Mrs. Polisetty Swetha
9)Ms. Aishwarya Koukuntla
10)Dr. Balaji V
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Mr. Bhawani Sankar Panigrahi
Address of Applicant :Assistant Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad - -----
2)Mrs. B. Vasavi
Address of Applicant :Assistant Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad - -----
3)Dr. R Karthikeyan
Address of Applicant :Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad -----
4)Dr. Jagadish R M
Address of Applicant :Associate Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad - -----
5)Mr. Rama Chandra Rao Meka
Address of Applicant :Assistant Professor, Dept of Computer Science and Engineering (AI&ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad --- -----
6)Mr. Bijaya Kumar Sethi
Address of Applicant :Assistant Professor Department of Computer Science and Engineering, Vardhaman College of Engineering, Hyderabad, India Hyderabad -----
7)Dr. Prakash Kumar Sarangi
Address of Applicant :Associate Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad - -----
8)Mrs. Polisetty Swetha
Address of Applicant :Assistant Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad - -----
9)Ms. Aishwarya Koukuntla
Address of Applicant :Assistant Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad - -----
10)Dr. Balaji V
Address of Applicant :Associate Professor, Department of Computer Science & Engineering (AI & ML), Vardhaman College of Engineering (Autonomous), Hyderabad, India Hyderabad - -----

(57) Abstract :

It is possible to raise the overall productivity of the workforce by implementing this strategy and system, which will also encourage workers to give their utmost in their work. This will allow for the raising of the overall productivity of the workforce. The purpose of this disclosure is to provide a more in-depth discussion on the use of sensors connected to the Internet of Things and software driven by artificial intelligence to monitor employees. It is now possible to monitor the actions taken by workers as well as the amount of time they spend in particular areas of the workplace or carrying out particular responsibilities thanks to the installation of a variety of sensors in various locations throughout the workplace. After the data has been recorded, it is transferred to an AI-powered employee monitoring software. This software manages the data by how well the employee has performed their duties.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032184 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : NATURAL FIBER BASED DRIP WATER COOLING SYSTEM FOR SOLAR PANELS

(51) International classification :H02S0040440000, H02J0003380000, H02S0040420000, H02J0007350000, H02S0020000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RAMCO INSTITUTE OF TECHNOLOGY

Address of Applicant : KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA, 626 117 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. P. AYYANAPPARAJ

Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117. -----

2)Mr. S. YOGESHWARA

Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117. -----

3)Mr. S. VIJAYKUMAR

Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117. -----

4)Dr. S. KANNAN

Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117. -----

5) Mr. S. MEENAKSHI SUNDARAVEL

Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117. -----

6)Mr. A. S. VIGNESHWAR

Address of Applicant :DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117. -----

(57) Abstract :

Solar energy is the most important source of renewable energy. The solar panel converts light energy into electrical energy. It converts 25 percent of the radiation into electrical energy. One of the major problems with a solar panel is that the increase in panel temperature reduces the efficiency of the output. At a single temperature rise above the normal temperature, there will be a decrease of 2.2 mV in the output voltage. Therefore, we found that the performance of the PV panel depends on factors, namely solar irradiance and operating temperature. These features will reduce the performance of the PV panel. Workplace cooling is a key performance factor that should be considered achieving maximum efficiency when operating solar photovoltaic systems. Proper cooling can improve electrical efficiency, and reduce the rate of cell loss over time, leading to increased life expectancy of photovoltaic modules. Excess heat removed by the cooling system can be used in domestic, commercial or industrial applications. This work is focused on the design of an efficient cooling system. The design has the following process: Natural fibers (JUTE) which are attached at the backside of the panel are soaked in water from a copper tube placed at the back of the panel. This low-cost cooling system combined with the existing solar panel system helps to significantly increase the efficiency of the PV system's overall output.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032185 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A MODEL TO MEASURE RECEPTIVITY AMONG TEACHERS AND TO FACILITATE SMOOTH TRANSITION OF ACADEMIC TRAINERS OR TEACHERS

(51) International classification	:G06Q0050200000, G06Q0010060000, G09B0019000000, G06Q0010100000, G16H0050300000	(71)Name of Applicant : 1)TRIXY ELIZABETH JOHN Address of Applicant :School of Education, CHRIST (Deemed to be University) Hosur Road, Bengaluru, Karnataka, India 560029 ----- 2)BENNY THOMAS 3)SUDHESH N T Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)TRIXY ELIZABETH JOHN Address of Applicant :School of Education, CHRIST (Deemed to be University) Hosur Road, Bengaluru, Karnataka, India 560029 - -----
(87) International Publication No	: NA	2)BENNY THOMAS Address of Applicant :Computer Science & Engineering CHRIST (Deemed to be University) Hosur Road, Bengaluru, Karnataka, India 560029 -----
(61) Patent of Addition to Application Number	:NA	3)SUDHESH N T Address of Applicant :Department of Psychology, CHRIST (Deemed to be University) Hosur Road, Bengaluru, Karnataka, India 560029 -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides a model for facilitating receptivity to change in teachers. The model provide a four-correlated factor structure. The model includes individual, organisational, bridging, and educational factors. The factors in the present invention created based on respective sub-factors provides the foundation for the model. The different sub factors comprise self-efficacy and self-regulation for individual factors; school climate, school support, principal support, professional training, communication, and participation for organisational factors; incentives and fostering voice through self-worth and engagement for bridging factors; teacher-oriented characteristic involving willingness to adapt, system- oriented characteristics encompassing nature of the system/process, and anticipated outcomes for educational factors. The model obtained in the present invention provides an additive structure in which the total receptivity is the sum of the four factors. The model has the advantage of being a measure of teachers' receptivity towards a proposed change, and for the application in the field of teacher education for continuous professional development.

No. of Pages : 23 No. of Claims : 7

(54) Title of the invention : FLUORESCENT CHEMOSENSOR BASED ON SCHIFF BASE FOR THE COLORIMETRIC-NAKED EYE DETECTION OF HG(II) ION

(51) International classification :G01N0021640000, G01N0033840000, G01N0021770000, G01N0031220000, G01N0021780000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)DR. S. SANTHI Address of Applicant :C-3, III FLOOR, SANKAR ABODES CROWN, 83, SANKARANPILLAI ROAD, THIRUCHIRAPPALLI, TAMIL NADU, INDIA - 620002. ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. S. SANTHI Address of Applicant :C-3, III FLOOR, SANKAR ABODES CROWN, 83, SANKARANPILLAI ROAD, THIRUCHIRAPPALLI, TAMIL NADU, INDIA - 620002. ----- ----- 2)MS. K. ABINAYA Address of Applicant :30, PILLAYAR KOIL ST, MANNURPET, PADI, CHENNAI - 50. -----

(57) Abstract :

ABSTRACT A new fluorescent Schiff base colorimetric chemosensor fabricated from 2,4-dihydroxy phenyl ethanone and 2- hydroxy aniline for detecting Hg(II) ion is submitted here. The mentioned Schiff base is named as 4-(1-(2-hydroxyphenylimino)ethyl)benzene-1,3-diol under IUPAC system. The Schiff base is synthesized by adopting a simple solvent free method involving of grinding of the starting compounds namely 1-(2,4-dihydroxyphenyl)ethanone and 2- aminophenol in a mortar using a pestle without the use of any solvent or any advanced equipments with the notion of reducing Environmental pollution. The yield is 98%. The Schiff base is extraordinarily stable under normal room temperature and laboratorial conditions and does not require any special method for storage. The presented Schiff base could detect Hg(II) ions colorimetrically through naked eye. The detection process is also demonstrated through absorption and emission methods. The sensing of Hg(II) ions is found to be highly selective and sensitive and at the same time no interference is observed to be caused by the presence of any other metal ion studied. The Hg(II) ion detecting process is feasible in aqueous methanol medium which enables the application of sensing property of the Schiff base in real water samples. It is to be mentioned that the presence of mercury of the order of even 106M(micro molar quantity) could be detected and the Schiff base receptor required for the detection is only 104 Molar concentrated solution, that is 0.0024 g of Schiff base in 10 ml of methanol. The sensing process is performed in real water samples collected from different areas of Tiruchirappalli and Chennai and the presence of Hg(II) ion is also proved colorimetrically.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032202 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANTIBACTERIAL NANOMEMBRANE FOR WOUND DRESSING AND HEALING

(51) International classification :A61L0015440000, A61L0015320000, A61F0013000000, A61L0015260000, D01D0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR. K KULATHURAAN

Address of Applicant :DEPARTMENT OF PHYSICS, ARULMIGU PALANIANDAVAR COLLEGE OF ARTS AND CULTURE, PALANI, TAMILNADU, INDIA 624601. -----

2)DR. LARISSA SOUZA AMARAL

3)DR. TOUSIEF LRSHAD AHMED

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. K KULATHURAAN

Address of Applicant :DEPARTMENT OF PHYSICS, ARULMIGU PALANIANDAVAR COLLEGE OF ARTS AND CULTURE, PALANI, TAMILNADU, INDIA 624601. -----

2)DR. LARISSA SOUZA AMARAL

Address of Applicant :BIO ENGINEERING DEPARTMENT, UNIVERSITY OF SAO PAULO, BRAZIL. -----

3)DR. TOUSIEF LRSHAD AHMED

Address of Applicant :GOVERNMENT MEDICAL COLLEGE, BEMINA, SRINAGAR, JAMMU & KASHMIR, INDIA 190010. -----

4)DR. CHANDRA KUMNR DIXIL

Address of Applicant :DEPARTMENT OF PHYSICS, DR. SHAKUNLALU MISRA NATIONAL REHABILITATION UNIVERSITY, LUCKNOW, U.P, INDIA 226017. -----

5)DR. PRASADA BABU GUNDALA

Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SRI VENKATESWARA UNIVERSITY, TIRUPATI, ANDHRA PRADESH, INDIA 517502. -----

6)DR. PARAMAGEETHAM CHINTHALA

Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SRI VENKATESWARA UNIVERSITY, TIRUPATI, ANDHRA PRADESH, INDIA 517502. -----

7)DR. MOUNIR MOHAMED SALEM BEKHET

Address of Applicant :PHARMACEUTICS DEPARTMENT, FACULTY OF PHARMACY, KING SAUD UNIVERSITY, RIYADH 11451. -----

(57) Abstract :

ABSTRACT ANTIBACTERIAL MEMBRANE FOR WOUND DRESSING AND HEALING The present invention involves the synthesis procedures and composition of an antibacterial membrane for the wound dressing and healing. The composition of the invention consists of incorporated manuka honey that acts as a natural antibacterial and healing agent .The novel manuka honey based natural nanofiber membrane has low pH level and high osmolality helps in inhibiting the growth of microbes. It also exhibits immunomodulatory properties due to its wide range of bactericidal properties. Moreover the herbal electrospun fibers act as an additional support providing the collagen that is much required for the healing of tissues. This novel honey based herbal fibers can also be used for efficient wound healing in normal skin injured patients and also finds in vitro applications.

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : IDS-IOT PERFORMANCE EFFICIENCY IN ANOMALY DETECTION USING MACHINE LEARNING TECHNIQUES

(51) International classification :H04L0029060000, G06N0020000000, G06F0021550000, H04L0029080000, G06N0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR. S. ROSELIN MARY

Address of Applicant :PROFESSOR, DEPARTMENT OF CSE, ANAND INSTITUTE OF HIGHER TECHNOLOGY, KALASALINGAM NAGAR, KAZHIPATTUR, OMR CHENNAI, TAMILNADU, INDIA 603103. -----

2)DR CHARUSHILA AXAY PATEL**3)DR. VISWANATHAN RAMASAMY****4)DR. D. NATARAJASIVAN****5)DR. S. SUDHAKAR****6)NIKETAN KUMAR MISHRA****7)DR. R. MANIKANDAN****8)DR.R.THIAGARAJAN**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. S. ROSELIN MARY

Address of Applicant :PROFESSOR, DEPARTMENT OF CSE, ANAND INSTITUTE OF HIGHER TECHNOLOGY, KALASALINGAM NAGAR, KAZHIPATTUR, OMR CHENNAI, TAMILNADU, INDIA 603103. -----

2)DR CHARUSHILA AXAY PATEL

Address of Applicant :LECTURER, ELECTRICAL ENGINEERING DEPARTMENT, B V PATEL INSTITUTE OF TECHNOLOGY (DS) VIDYABHARTI TRUST CAMPUS AT & PO BABEN TA, BARDOLI, SURAT, GUJARAT, INDIA 394345. -----

3)DR. VISWANATHAN RAMASAMY

Address of Applicant :PROFESSOR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, KONERU LAKSHMAIAH EDUCATION FOUNDATION, GREENFIELDS, VADDESWARAM, GUNTUR ANDHRA PRADESH, INDIA 522302. -----

4)DR. D. NATARAJASIVAN

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR, CHIDAMBARAM, TAMILNADU, INDIA 608002. ----

5)DR. S. SUDHAKAR

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR, CHIDAMBARAM, TAMILNADU, INDIA 608002. -----

6)NIKETAN KUMAR MISHRA

Address of Applicant :ASSISTANT PROFESSOR, DEPT OF ECE, LAKSHMI NARAIN COLLEGE OF TECHNOLOGY AND SCIENCE, UJJAIN - INDORE RD, BHAWRASLA, INDORE, MADHYA PRADESH, INDIA. -----

7)DR. R. MANIKANDAN

Address of Applicant :ASSISTANT PROFESSOR, ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR, CHIDAMBARAM, TAMILNADU, INDIA 608002. -----

8)DR.R.THIAGARAJAN

Address of Applicant :ASSOCIATE PROFESSOR, PRATHYUSHA ENGINEERING COLLEGE, ARANVOYAL KUPPAM, CHENNAI, TAMILNADU, INDIA 602025. -----

(57) Abstract :

Abstract One of the techniques that can be used in attack detection is intrusion detection system (IDS). The IDS is one of the techniques that can be used to protect data and networks. With the specific characteristics of IoT, building IDS faces enormous challenges. Therefore, the dimensionality reduction (DR) application technique is very crucial. Currently, existing IDSs are based on data mining, machine learning (ML), and deep learning (DL) algorithms and are being implemented as one of the solutions in recognizing attacks. The use of DR makes the IoT IDS become more efficient with faster execution time, so the required computational and other resources such as required storage media are less. Moreover, DR can also be used to visualize the traffic data. This chapter presents an overview of the DR, starting with the techniques, main function, and application on IoT IDSs, followed by visualizations of IoT IDS, and ending with a discussion on the impact of the use of DR techniques in IoT IDSs' performances. The types of anomalies detected by DL-IDS include denial of service (DoS), user-to-root (U2R) attack, probe attack, and remote-to-local (R2L) attack. Extensive analysis indicates that the proposed DL-IDS achieves better performance in terms of accuracy, precision, recall, and F-score.

(54) Title of the invention : NATURAL LOW IRRITANT LONGSTANDING HAIR DYE AND THE METHOD TO PRODUCE THE SAME

(51) International classification :A61Q0005100000, A61Q0005000000, A45D0019000000, A61K0008580000, A61K0008190000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)DR. K KULATHURAAN**

Address of Applicant :DEPARTMENT OF PHYSICS, ARULMIGU PALANIANDAVAR COLLEGE OF ARTS AND CULTURE, PALANI, TAMILNADU, INDIA 624601. -----

2)MR DEVANAND HIRALAL DONGRE**3)DR. ASEEL A .KADHEM**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :**1)DR. K KULATHURAAN**

Address of Applicant :DEPARTMENT OF PHYSICS, ARULMIGU PALANIANDAVAR COLLEGE OF ARTS AND CULTURE, PALANI, TAMILNADU, INDIA 624601. -----

2)MR DEVANAND HIRALAL DONGRE

Address of Applicant :PHARMACEUTICAL QUALITY ASSURANCE DEPARTMENT, SAMARLH COLLEGE OF PHARMACY, DEULGAON RAJA, MAHARASHTRA, INDIA 443204. -----

3)DR. ASEEL A .KADHEM

Address of Applicant :IRAQI MINISTRY OF EDUCATION, WASIT EDUCATION DIRECTORATE, IRAQ. -----

4)MS. KIRTI KAMALAKUR AMOLIK

Address of Applicant :DEPARTMENT OF CHEMISTRY, R.B. NARAYANRAO BORAWAKE COLLEGE, SHRIRAMPUR, MAHARASHTRA, INDIA 413709. -----

5)MR. PRATHMESH PRAMOD DESHPANDE

Address of Applicant :WOCKHARDT RESEARCH CENTRE, AURANGABAD, MAHARASHTRA, INDIA 431006. -----

6)DR. DHRUBAJYOTI SARKAR

Address of Applicant :FACULTY OF PHARMACEUTICAL SCIENCE, ASSAM DOWN TOWN UNIVERSITY, SANKAR MADHAB PATH, GANDHI NAGAR, PANIKHAITI, GUWAHATI, ASSAM, INDIA 781026. -----

7)MR. RUDRESHA S

Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA, UTTAR PRADESH, INDIA 201301. ----

(57) Abstract :

The current invention uses unique mild type plant nutritional hair colouring cream synthesis techniques and compositions that includes a herbal nourishing hair colouring creamy hair colouring reagent and a botanical nutritional hair surfact activator. The gentle type plant nourishing hair colouring cream is a new plant-based hair colouring cream that includes and other plant and flower extracts. The herbal nutritional hair coloring technology can be used in various colors respectively comprising red. brown, dark tangerine, deep purple, natural black and light maroon. The hair dye also supports the hair nutrition by providing the moisture sealant present in the sesame oil and thereby supporting the keratin production and regulation.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/06/2022

(21) Application No.202241032205 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DETERMINATION OF IOT SECURITY ATTACKS USING NOVEL ANOMALY DETECTION USING FED-ENSEMBLE LEARNING

(51) International classification :H04L0029060000, H04L0029080000, H04W0004700000, G06N0020000000, G06F0021310000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR.P.RADHAKRISHNAN
Address of Applicant :PROFESSOR, TAGORE ENGINEERING COLLEGE, RATHINAMANGALAM ,VANDALUR POST, CHENNAI, TAMILNADU, INDIA 600127. -----
2)DR. RITESH SRIVASTAVA
3)DR. VEENA MITTAL
4)DR. SHELJA SHARMA
5)MOHIT CHOWDHARY
6)NANDINI TOMAR
7)MAHESH SINGH
8)DR. R. THIAGARAJAN
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR.P.RADHAKRISHNAN
Address of Applicant :PROFESSOR, TAGORE ENGINEERING COLLEGE, RATHINAMANGALAM ,VANDALUR POST, CHENNAI, TAMILNADU, INDIA 600127. -----
2)DR. RITESH SRIVASTAVA
Address of Applicant :PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, PLOT NO 1, KNOWLEDGE PARK 2, PHASE 2, GAUTAM BUDDH NAGAR, GREATER, UTTAR PRADESH, INDIA 201306. -----
3)DR. VEENA MITTAL
Address of Applicant :PROFESSOR, INFORMATION TECHNOLOGY, GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, PLOT NO 1, KNOWLEDGE PARK 2, PHASE 2, GAUTAM BUDDH NAGAR, GREATER, UTTAR PRADESH, INDIA 201306. -----
4)DR. SHELJA SHARMA
Address of Applicant :ASSOCIATE PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, PLOT NO 1, KNOWLEDGE PARK 2, PHASE 2, GAUTAM BUDDH NAGAR, GREATER, UTTAR PRADESH, INDIA 201306. -----
5)MOHIT CHOWDHARY
Address of Applicant :ASSISTANT PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, PLOT NO 1, KNOWLEDGE PARK 2, PHASE 2, GAUTAM BUDDH NAGAR, GREATER, UTTAR PRADESH, INDIA 201306. -----
6)NANDINI TOMAR
Address of Applicant :ASSISTANT PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, PLOT NO 1, KNOWLEDGE PARK 2, PHASE 2, GAUTAM BUDDH NAGAR, GREATER, UTTAR PRADESH, INDIA 201306. -----
7)MAHESH SINGH
Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE, GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, PLOT NO 1, KNOWLEDGE PARK 2, PHASE 2, GAUTAM BUDDH NAGAR, GREATER, UTTAR PRADESH, INDIA 201306. -----
8)DR. R. THIAGARAJAN
Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF IT, PRATHYUSHA ENGINEERING COLLEGE, ARANVOYALKUPPAM, CHENNAI, TAMILNADU, INDIA 602025. -----

(57) Abstract :

Abstract IOT systems send information across a wireless link, making it an accessible target for hackers. A conventional communication assault on an internal network is restricted to network elements or a small independent region, whereas an attempt on an IOT device covers a greater region, and it has severe consequences for IoT facilities. Existing IDS and many other threat detection methods have been unable to detect threats that began periodically or even in the process of an information technology infrastructure. For such time being, a secure IoT infrastructure is needed to safeguard against fraud. Since so many IOT devices were created with minimal regard for its security consequences, that's the scenario. As a result, it is indeed critical to devise methods for preventing potential threats or assaults, as well as safeguarding lot systems against malfunction. Also, with susceptibility of lot systems, even security controls in place are becoming susceptible. FL's user data confidentiality advantages create a safe level to IOT, rendering IOT systems increasingly dependable. Overall findings of their analysis showed the suggested method beats non-FL versions of anomaly detection algorithms. This suggested technique will be improved using a testing ground of IoT devices, and this will be evaluated with actual data using device-specific datasets which can categorise all predictable and unpredictable weaknesses of IoT new devices. This shows that traditional machine learning operates on a historical pair of large stored data on a central database, making it a less preferable solution to any subdomains concerned about user privacy protection. At solve this issue, researchers present a federated learning (FL)-based anomaly-based strategy that uses decentralised on-device information that solutions in response infiltration in lot.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032207 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : INTERNET OF THINGS FOR HOME SAFETY APPLICATIONS

(51) International classification :G05B0019418000, H04L0012280000, H04L0029080000, G05B0015020000, G08C0017020000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)MR. R. MURALIDHARAN Address of Applicant :F1, GOPURAM ALWARS, 41, 1ST MAIN ROAD, ALWARTHIRUNAGAR ANNEXE, CHENNAI - 600087, INDIA. ----- 2)DR. SOUMITRO CHAKRAVARTY 3)DR. UMESH PRASAD Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)MR. R. MURALIDHARAN Address of Applicant :F1, GOPURAM ALWARS, 41, 1ST MAIN ROAD, ALWARTHIRUNAGAR ANNEXE, CHENNAI - 600087, INDIA. ----- 2)DR. SOUMITRO CHAKRAVARTY Address of Applicant :DEPARTMENT OF MANAGEMENT, BIT MESRA, OFF-CAMPUS, LALPUR, RANCHI 834001, JHARKHAND, INDIA. ----- 3)DR. UMESH PRASAD Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE, BIT MESRA, OFF-CAMPUS, LALPUR, RANCHI 834001, JHARKHAND, INDIA. ----- 4)DR. RONALD MIGUEL HERNANDEZ VASQUEZ Address of Applicant :DEPARTAMENTO DE EDUCATION, UNIVERSIDAD CATOLICA SANTO TORIBIO DE MOGROVEJO, CHICLAYO, PERU. ----- 5)DR. DORIS ELIDA FUSTER GUILLEN Address of Applicant :DEPARTMENT OF EDUCATION, UNIVERSIDAD NAEIONAL MAYOR DE SAN MARCOS, LIMA, PERU. ----- 6)DR. YOLVI JAVIER OCANA FERNANDEZ Address of Applicant :DEPARTMENT OF EDUCATION, UNIVERSIDAD NAEIONAL MAYOR DE SAN MARCOS, LIMA, PERU. ----- 7)DR. JESSICA PAOLA PALACIOS GARAY Address of Applicant :DEPARTMENT OF EDUCATION, UNIVERSIDAD NAEIONAL MAYOR DE SAN MARCOS, LIMA, PERU. -----

(57) Abstract :

ABSTRACT INTERNET OF THINGS FOR HOME SAFETY The present invention involves a home device interface, a data transfer unit (DTU) equipment, a platform, a control node, and a network server composing an intelligent home program based on Internet of things technology. In comparison to prior art,, the smart household system has the benefit of using Internet of Things technologies to create an intelligent home communications network. In home wireless transmission, a wireless network protocol for a home device is used, and the effects of minimal complexity, self-organization, low energy consumption, and cheap cost are accomplished. Under the assistance of lot technology, the network server is constructed, and effective information from various home components in the system may be transmitted to the network server. Sensing information from the devices can'be transmitted using data from a cloud service network, the gadgets can also be in continuous communication, and consumers can examine what's going on at any time from any location.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/06/2022

(21) Application No.202241032209 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : LIGHT WEIGHT, HIGH STRENGTH ALLOYS FOR VEHICLE PARTS

(51) International classification :C04B0111000000, C22C0038440000, B82Y0010000000, C08J0005220000, B82Y0040000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR. G. RANJITH KUMAR

Address of Applicant :SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS), R V S NAGAR, CHITTOOR 517127, ANDHRA PRADESH, INDIA. -----

2)DR. CHANDRA KUMAR DIXIT

3)MR. HARISHKUMAR MUDISSETTY

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. G. RANJITH KUMAR

Address of Applicant :SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS), R V S NAGAR, CHITTOOR 517127, ANDHRA PRADESH, INDIA. -----

2)DR. CHANDRA KUMAR DIXIT

Address of Applicant :DEPARTMENT OF PHYSICS, DR. SHAKUNTALA MISTA NATIONAL REHABILITATION UNIVERSITY, LUCKNOW 226017, U.P, INDIA. -----

3)MR. HARISHKUMAR MUDISSETTY

Address of Applicant :M.SC ENINEERING IN MECHANICAL MANUFACTURING, WREXAM GLYNDWN UNIVERSITY, WALES, UK. -----

4)DR. RONALD MIGUEL HERNANDEZ VASQUEZ

Address of Applicant :DEPARTAMENTO DE EDUCATION, UNIVERSIDAD CATOLICA SANTO TORIBIO DE MOGROVEJO, CHICLAYO, PERU. -----

5)DR. DORIS ELIDA FUSTER GUILLEN

Address of Applicant :DEPARTMENT OF EDUCATION, UNIVERSIDAD NAEIONAL MAYOR DE SAN MARCOS, LIMA, PERU. -----

6)DR. YOLVI JAVIER OCANA FERNANDEZ

Address of Applicant :DEPARTMENT OF EDUCATION, UNIVERSIDAD NAEIONAL MAYOR DE SAN MARCOS, LIMA, PERU. -----

7)DR. JESSICA PAOLA PALACIOS GARAY

Address of Applicant :DEPARTMENT OF EDUCATION, UNIVERSIDAD NAEIONAL MAYOR DE SAN MARCOS, LIMA, PERU. -----

8)DR. MIGUEL ANGEL SAAVEDRA LOPEZ

Address of Applicant :UNIVERSIDAD NACIONAL DE TUMBES, TUMBES, PERU. -----

(57) Abstract :

ABSTRACT LIGHT WEIGHT, HIGH STRENGTH ALLOY FOR VEHICLE PARTS The present invention involves the synthesis procedures and composition of Ultra-high-strength alloy that allow significant weight savings compared to Ultra High Strength Steel. The composition of the invention consists of carbon nanotubes that are embedded in the aluminum tin based porous matrix by a combination of sintering and gas melt injection method. The novel embedded alloy displays a high strength, durability and It also exhibits high thermal resistance properties. Due to its wide range of properties, this alloy finds application in the manufacturing of vehicle pans . construction materials and industrial components. Moreover this novel carbon nanolube based aluminum - tin composite alloy provides ductility and hence can be.used in the areas that require flexible yet durable constituents .

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032212 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MINIATURE SPECIAL PURPOSE MACHINE

(51) International classification :B23P0023040000, B24B0027000000, B23Q0037000000, B23Q0001010000, B23B0041000000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RAJASEKAR DEPAK CHAKKARAVARTHY

Address of Applicant :50B, ELGI NAGAR, PHASE-2, VELLALORE -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RAJASEKAR DEPAK CHAKKARAVARTHY

Address of Applicant :50B, ELGI NAGAR, PHASE-2, VELLALORE -----

(57) Abstract :

The invention provides a machine capable to perform the functions of a lathe, shaping, drilling, and grinding as an all in one miniature unit. This miniature machine performs various machining operations for micro components as well as normal sized components with different speeds and it is a semi-automatic machine which is operated by an AC motor. This model of miniature special purpose machine is used in small scale and cottage industries to reduce their investment in machine tools and increases the capacity utilization at smaller floor area with lower power consumption. In the cottage industries this machine is used because it focuses mainly on the women self-help groups where women's can operate it effectively. The mild steel, aluminium, nylon and wooden work pieces can be easily machined in this machine.

No. of Pages : 8 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032213 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : WEARABLE STRESS SENSOR FOR MONITORING CARDIO HEALTH

(51) International classification :A61B0005000000, A61B0005024000, A61B0005145000, A61B0005021000, G16H0050300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. RAMJI KALIDOSS

Address of Applicant :DEPARTMENT OF BIOMEDICAL ENGINEERING, BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH, CHENNAI, TAMILNADU, INDIA-600073. -----

2)Dr. LALITA RANE

3)Dr. PRATIMA S KADAM

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. RAMJI KALIDOSS

Address of Applicant :DEPARTMENT OF BIOMEDICAL ENGINEERING, BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH, CHENNAI, TAMILNADU, INDIA-600073. -----

2)Dr. LALITA RANE

Address of Applicant :DEPARTMENT OF PHYSICS, RAMKRISHNA MORE COLLEGE, AKURDI, PUNE, 411044, INDIA. -----

3)Dr. SANTOSH KUMAR SHARMA

Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, UNITED UNIVERSITY, PRAYAGRAJ 211012, UTTAR PRADESH, INDIA. -----

4)Dr. PRATIMA S KADAM

Address of Applicant :DEPARTMENT OF BOTANY, RAMKRISHNA MORE COLLEGE, AKURDI, PUNE, 411044, INDIA. -----

5)Dr. CHANDRA KUMAR DIXIT

Address of Applicant :DEPARTMENT OF PHYSICS, Dr. SHAKUNTALA MISRA NATIONAL REHABILITATION UNIVERSITY, LUCKNOW 226017. U.P, INDIA. -----

6)Mr. BIDYUT BIKASH BORAH

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, TEZPUR UNIVERSITY, NAPAAM, TEZPUR 784028, ASSAM, INDIA. -----

7)Dr. LARISSA SOUZA AMARAL

Address of Applicant :BIOENGINEERING DEPARTMENT, UNIVERSITY OF SAO PAULO, BRAZIL -----

(57) Abstract :

The present invention discloses a health monitoring device, with an attached strap, capable of sensing stress characteristics of the individual thereby determining the cardiac health status. The highly durable stress sensor was due to the incorporation of nano-fine full-vulcanized acrylonitrile butadiene rubber nano particle-based elastomer with a low-modulus enabling the penetration into the layers of the sensor, which helps to adhere to the dermal layer. and also serves as a support for stretchable underlying layer. A stretchable inbuilt sensor electrode is incorporated that can be stuck on to the skin. The sensor includes major components of analogue-to-digital converter, integrated circuits (ICS), microcontroller. (ADC), and a temperature sensor. Any change in the temperature caused by the stress is detected by the sensor leads to accurate diagnosis of more complex arrhythmias and other conditions such as myocardial infarction (MI) or to detect interval abnormalities.

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032218 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : APPLICATION OF AUTOMATED ASSISTANCE MANAGEMENT (AAM) BY NATURAL LANGUAGE PROGRAMMING (NLP)

(51) International classification :H04L0012580000, G06F0040350000, G10L0015260000, G10L0015180000, G06F0040580000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Ms. J. JEYASUDHA

Address of Applicant :DEPARTMENT OF COMPUTATIONAL INTELLIGENCE, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI-603203, TAMILNADU, INDIA. -----

2)Dr. ERICH POTRICH

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ms. J. JEYASUDHA

Address of Applicant :DEPARTMENT OF COMPUTATIONAL INTELLIGENCE, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI-603203, TAMILNADU, INDIA. ---

2)Dr. ERICH POTRICH

Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING, AMAPA STATE UNIVERSITY, MACAPA, BRAZIL. -----

3)Mr. KIRAN JOSHI

Address of Applicant :CE & IT DEPARTMENT, VEERMATA JIJABI TECHNOLOGICAL INSTITUTE, MATUNGA, MUMBAI 400019, INDIA. -----

4)Dr. CHANDRA KUMAR DIXIT

Address of Applicant :DEPARTMENT OF PHYSICS, Dr. SHAKUNTALA MISRA NATIONAL REHABILITATION UNIVERSITY, LUCKNOW 226017. U.P, INDIA. -----

5)Mr. RUDRESHA S

Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, JSS ACADEMY OF TECHNICAL EDUCATION, NOIDA 201301, UTTAR PRADESH, INDIA. ---

(57) Abstract :

In this decade, the computerized method has become beneficial in managing as well as executing an automated assistant translator among an automated assistant service from the enterprises or organization third party messaging platforms. This technology involves the step in implementing automated assistant with adaptive AI and transform response through translator from the third party messaging platforms with the automated assistant by receiving a NLP processed text format as from a user of e-commerce services through voice or text. The DL tools have involved in the step of parsing the conversation input as well as the step of determining a request for additional information in the conversation input. However, the NLP involves in the step of retrieving a database associated with the request for additional information in the conversation input. The adaptive AI engine is the next step after NLP process which generate an output that involve information in text format using DL libraries. This AAM is very much beneficial for the physically challenged humans and also for normal persons whereas the CRM server provide this adaptive AI engine to perform AAM server efficiently by responding the queries-of customer from various thousands of topics. The system comprises with one or more specific runtime translators which can able to translate the outcome by an automated assistant for each messaging platform's protocol through the plurality of third party messaging platforms. This AAM involves the step of translator system that involves the converted the natural language output to a formal of the first third party messaging platform of e-commerce business.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/06/2022

(21) Application No.202241032244 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : ENHANCING SECURITY OF HEALTH INFORMATION USING MODULAR ENCRYPTION IN CLOUD COMPUTING

(51) International classification :H04L0029060000, G06Q0050220000, H04L0009060000, G16H0040200000, H04L0009080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. S. SHANKAR
Address of Applicant :PROFESSOR & HEAD -CSE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
--
2)Ms. K. V. SREELEKHA
Address of Applicant :ASSISTANT PROFESSOR/CSE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----

3)DR. S. KOUSALYA DEVI
Address of Applicant :ASSISTANT PROFESSOR/CSE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----

4)Ms. A. BENAZIR BEGUM AP/CSE
Address of Applicant :HINDUSTHAN INSTITUTE OF TECHNOLOGY, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
5)KARTHIK M
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
6)MOHAMED JAWAHIR N
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
7)NAVEEN CL
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----
8)PRADEEO RAJ P
Address of Applicant :HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

(57) Abstract :

We apply CP-ABE approach as a center cryptographic access control and present another intermediary re-encryption (PR.B) convention to diminish information re-encryption and unscrambling cost for the portable clients. To this end, the overhead in running the cryptographic activity toward the end-client gadget is little. Also, we foster secure access strategy sharing and re-encryption convention to empower clients having compose advantage to refresh the information and solicitation. The intermediary to perform information re-encryption. At long last, we present the assessment and analyses to illustrate the proficiency and reasonableness of our framework. Despite the numerous and noticeable inherited gains of Mobile Cloud Computing (MCC) in healthcare, its growth is being hindered by privacy and security challenges. Such issues require the utmost urgent attention to realize its full scale and efficient usage. There is a need to secure Health Information worldwide, regionally, and locally. To fully avail of the health services, it is crucial to put in place the demanded security practices for the prevention of security breaches and vulnerabilities. Hence, this research is deliberated on to provide requirement-oriented health information security using the Modular Encryption Standard (MES).based on the layered modelling of the security measures. The performance analysis shows that the proposed work excels, compared to other commonly used algorithms against the health information security at the MCC environment in terms of better performance and auxiliary qualitative security ensuring measures.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032245 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A MOBILE-BASED SYSTEM FOR DETECTING PLANT LEAF DISEASES USING DEEP LEARNING

(51) International classification :G06N0003040000, G06N0003080000, G06Q0050020000, G06K0009000000, G06T0007000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1) HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1) Dr. J. JAYA Address of Applicant :PROFESSOR- ECE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 2)Dr. S. UMA Address of Applicant :PROFESSOR -CSE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 3) Dr. S. SHANKAR Address of Applicant :PROFESSOR & HEAD -CSE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 4) Ms. J. ANANTHI Address of Applicant :ASSISTANT PROFESSOR- CSE, HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. ----- 5)SATYA LAKSHMI BANDARU Address of Applicant : HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE, TAMIL NADU, INDIA - 641032. -----

(57) Abstract :

In recent years the need of quality agricultural products made the researchers to implement the technologies to provide support to the backbone of the nation. Out of all. the plant diseases are the major challenging issue faced globally in the agriculture sector. The farmers losses one-third of the production of crop due to various plant diseases. Whereas the diagnosis of the diseases on plant leaves through physical examination is challenging due to the availability of limited resources. Using deep learning technology in image . recognition/processing, the early diagnosis of crop diseases can be carried out and the implementation of the same is planned in multiple phases. Implementation of deep learning techniques to recognize images. Detection, monitoring, and prediction of crop diseases to reduce crop agriculture losses. Images of plant leaves of healthy and infected plants for training, validating, and testing the CNN model. The user interface to be developed as an Android mobile app. allowing farmers to capture a photo of the infected plant leaves. To create a better opportunity for farmers to keep their crops healthy and eliminate the use of wrong fertilizers that could stress the plants.

No. of Pages : 5 No. of Claims : 5

(54) Title of the invention : ECOFRIENDLY SUSTAINABLE ARECA MATCHSTICKS TO COMBAT CLIMATE WARMING

(51) International classification :A61K0036889000, B32B0038000000, C08J0005040000, G06Q0050260000, D06M0101060000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)MALLIK, Arvind DM**

Address of Applicant :1st cross Somiaya Layout Near Shanker Mutt behind Gayatri Kalyana Mantap, Shivamogga, 577201, Karnataka, India Shivamogga -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)MALLIK, Arvind DM**

Address of Applicant :1st cross Somiaya Layout Near Shanker Mutt behind Gayatri Kalyana Mantap.Shivamogga, 577201, Karnataka, India Shivamogga -----

2)M, Suhana Kouser

Address of Applicant :Salumandanma Street, Chikmagalur, Tarikere, 577228, Karnataka India Chikmagalur -----

3)M, Pooja

Address of Applicant :J3 Judicial quarters Hosanagar road Sagara taluk, Shivamogga, 577401, Karnataka, India Shivamogga -----

4)Ashwini

Address of Applicant :Nilaya Kubri Darkasu Shivapura post Hebri taluk Udupi, 581110, Karnataka, India Udupi -----

5)BK, Sangamesh

Address of Applicant :Konanavar, #183k, Shivaji Nagar 4th Cross Haveri, 581110, Karnataka, India Haveri -----

6)MESTA T, Dikshitha

Address of Applicant :Block No 12 Door No 136 Murgashira Bulliding 8th Ksrp Machanhalli Shivamogga, 577227, Karnataka,India Shivamogga -----

7)K, Vedamurthy

Address of Applicant :NMC 4th Cross Left Side Hosamae Bhadravathi 577301, Karnataka, India Bhadravathi -----

8)GADDI, Mahanthesh

Address of Applicant :002, Kombli(P), H Hadagali (T),Vijayanagar- 583219, Karnataka, India Vijayanagar -----

9)RAJEEV, Rahul

Address of Applicant :Battemallappa, Alagerimandri, Haridravathi Post, Hosanagar Taluk, Shimoga District, 577412, Karnataka, India Shivamogga -----

(57) Abstract :

ABSTRACT ECOFRIENDLY SUSTAINABLE ARECA MATCHSTICKS TO COMBAT CLIMATE WARMING The present invention discloses eco-friendly, sustainable matchsticks and the method thereof. The matchsticks are coated with wax and fire-retardant and made up of areca fibre obtained from the husk of areca fibre which replaces the use of wood/other natural fibre, thereby helping to combat climate change. The length of ignition can be extended by 10 to 25 seconds with Areca fibre spun matchsticks, compared to standard wood ignition. Figure 1

No. of Pages : 36 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032247 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : READY-MIX COMPOSITION AND A PROCESS FOR ITS PREPARATION

(51) International classification :C04B0028040000, C04B0111000000, E01C0007300000, C09J0201000000, C04B0018140000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SRM Institute of Science and Technology

Address of Applicant :Kattankulathur, Chennai-603203, Tamil Nadu, India Chennai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)B. M. RAMALINGA REDDY

Address of Applicant :Department of Civil Engineering, Bangalore Technological Institute, Bangalore - 560035, Karnataka, India Bangalore -----

2)SATYANARAYANAN, KACHABESWARA SRINIVASAN

Address of Applicant :SRMIST, Kattankulathur, Chennai - 603203, Tamil Nadu, India Chennai -----

3)H.N. JAGANNATHA REDDY

Address of Applicant :Department of Civil Engineering, Bangalore Institute of Technology, Bangalore - 560004, Karnataka, India Bangalore -----

(57) Abstract :

ABSTRACT READY-MIX COMPOSITION AND A PROCESS FOR ITS PREPARATION The present disclosure relates to a ready-mix composition and a process for its preparation. The ready-mix composition comprises predetermined amounts of fine aggregates comprising gold mine tailings and a binder. The ready-mix composition of the present disclosure provides excellent compressive, splitting and flexural strengths. The process for the preparation of the ready-mix composition is simple and economic.

No. of Pages : 45 No. of Claims : 10

(54) Title of the invention : A TWO-WHEELER VEHICLE WITH A SOLAR PANEL INTEGRATED BACK REST SEATING ARRANGEMENT

(51) International classification :B60N0002360000, B60R0021000000, B60N0002300000, H04N0007180000, B60L0008000000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)MALLIK, Arvind DM Address of Applicant :1st cross Somiaya Layout Near Shanker Mutt behind Gayatri Kalyana Mantap, Shivamogga, 577201, Karnataka, India Shivamogga ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)MALLIK, Arvind DM Address of Applicant :1st cross Somiaya Layout Near Shanker Mutt behind Gayatri Kalyana Mantap. Shivamogga, 577201, Karnataka, India Shivamogga ----- 2)C, Yashodha Address of Applicant :Kallihatti, Kurubaralli post, Chitradurga, 577520, Karnataka, India Chitradurga ----- 3)C T, Sindhu Address of Applicant :Shri Thirthalingeshwara Krupa, Ravindra nagar, 6th cross, Shivamogga, 577201, Karnataka, India Shivamogga ----- 4)G L, Ananya Address of Applicant :2nd cross, OSM, Bhuthangudi, Bhadravathi, 577301, Karnataka, India Bhadravathi ----- 5)BALIGER, Raju Address of Applicant :Vidya Nagar C Block ,1st Cross, Haveri, 581110, Karnataka, India Haveri ----- 6)S, Abhishek Address of Applicant :Brahmin's Street, Ashoka Nagar 1st, Yedehalli ,Bhadravathi, Shivamogga, 577227, Karnataka, India Shivamogga ----- 7)K, Kavitha Address of Applicant :Siddapur road, Aralihalli, Bhadravathi, Shivamogga, 577233, Karnataka, India Shivamogga ----- 8)B C, Sahana Address of Applicant :Hallikere, Barandur, Bhadravathi, Shivamogga, 577245, Karnataka, India Shivamogga ----- 9)K.E, Besil Address of Applicant :Janath Colony, Muthina koppa, N R Pura, Chikkamagluru, 577134, Karnataka, India Chikkamagluru -----

(57) Abstract :

ABSTRACT A TWO-WHEELER VEHICLE WITH A SOLAR PANEL INTEGRATED BACK REST SEATING ARRANGEMENT
The present invention discloses a solar panel integrated backrest for a two wheeler vehicle. The system comprises of a fixed saddle seat; a rear seat with a proximal end connected to the saddle seat through a hinge and a free distal end; a slider configured inside the rear seat; and a solar panel assembly mounted on back side of the slider. The rear seat serves as a backrest by raising the free distal end of the rear seat in an upright position. The backrest is functionally coupled to an extendable handle bar which is extendable in one or both right and left direction upto a certain length as per rider's requirement. Figure 1

No. of Pages : 19 No. of Claims : 8

(54) Title of the invention : A PROCESS OF SEQUENTIAL EXTRACTION OF TETRACHLOROETHYLENE

(51) International classification :B01D0011020000, A23L0003347200, C11D0007500000, C05G0005200000, C07C0021120000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)VERIDIAN MICRO LAB PRIVATE LIMITED**

Address of Applicant :608, C Block, Marg Pushpadruma, Kalavakkam Village, Thiruporur, Kancheepuram - 603110, Tamil Nadu, India Thiruporur -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)A.K. RAMYA**

Address of Applicant :608, C Block, Marg Pushpadruma, Kalavakkam Village, Thiruporur, Kancheepuram - 603110, Tamil Nadu, India. Thiruporur -----

2)P. Annathai

Address of Applicant :608, C Block, Marg Pushpadruma, Kalavakkam Village, Thiruporur, Kancheepuram - 603110, Tamil Nadu, India. Thiruporur -----

3)Dr. Saravanan Muthupandiyan

Address of Applicant :608, C Block, Marg Pushpadruma, Kalavakkam Village, Thiruporur, Kancheepuram - 603110, Tamil Nadu, India. Thiruporur -----

4)K. Ranjith

Address of Applicant :4641, Outlook Place NE, Marietta, Georgia - 30066, United States of America. Georgia -----

5)S. Gopalakrishnan

Address of Applicant :608, C Block, Marg Pushpadruma, Kalavakkam Village, Thiruporur, Kancheepuram - 603110, Tamil Nadu, India. Thiruporur -----

(57) Abstract :

A PROCESS OF SEQUENTIAL EXTRACTION OF TETRACHLOROETHYLENE The present invention relates to a process for separation of bioactive compounds from natural resources using sequential extraction method, particularly, to a process of sequential extraction to produce the highest yield of pure form of tetrachloroethylene. The process of extraction of tetrachloroethylene (100) from the plant and trees (101) includes washing and shade drying the selected plant material at room temperature (103); dissolving 100 grams of the powdered material in 1000 ml of solvents including hexane (104), chloroform (105), ethylacetate (106), acetone (107), methanol (108) and water (109), separately in consecutive sequences depending on the solvent's polarity; macerating the mixture, magnetic stirring and filtering the marc from each solvent mixture; and concentrating the collected marc by vacuum evaporation.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032373 A

(19) INDIA

(22) Date of filing of Application :06/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A METHOD OF PREPARATION OF BIOFUEL

(51) International classification :C11B0001100000, C11B0001040000, B01D0011020000, C11B0001060000, C10L0001320000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ADDANKI NARASIMHA PHANI DEEPTHI

Address of Applicant :W/O Y.V. MADHU, 70-12-4, OPP ANDHRA OIL MILL, NSM ROAD PATAMATA, VIJAYAWADA, ANDHRA PRADESH, INDIA VIJAYAWADA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)J. PRABAKARAN

Address of Applicant :DEPT. OF MECHANICAL ENGINEERING, ANNAMALAI UNIVERSITY, CHIDAMBARAM, TAMIL NADU, INDIA CHIDAMBARAM --

2)A.P. SATHIYAGNANAM

Address of Applicant :DEPT. OF MECHANICAL ENGINEERING, ANNAMALAI UNIVERSITY, CHIDAMBARAM, TAMIL NADU, INDIA CHIDAMBARAM --

(57) Abstract :

A method (500) of preparation of biofuel is provided. The method includes grinding, by a grinder, a raw material to obtain a ground material. The raw material includes capsicum annum var longum pedicel. The method also includes extracting, by a soxhlet extraction apparatus, the ground material to obtain an oil-solvent mixture. The oil-solvent mixture includes an oil and a solvent in a volumetric ratio of 36:7. The method further includes evaporating, by a rotary evaporator, the oil-solvent mixture to obtain crude oil. The method also includes trans esterifying, by alcohol, the crude oil to obtain the biofuel. FIG. 1

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/06/2022

(21) Application No.202241032376 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD FOR SECURING OPEN BANKING APPLICATION PROGRAMMING INTERFACE IN A FINANCIAL TRANSACTION

(51) International classification :H04L0009320000, H04L0029060000, G06F0009540000, G06F0021640000, H04L0009000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DIGITALAPICRAFT PRIVATE LIMITED

Address of Applicant :#3366, SHIVAJIYTI, 13TH MAIN, HAL 2ND STAGE, INDIRANAGAR, BANGALORE- 560038, KARNATAKA, INDIA BANGALORE -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MANISH KUMAR SINGH

Address of Applicant :DIGITALAPICRAFT PRIVATE LIMITED, #3366, SHIVAJIYTI, 13TH MAIN, HAL 2ND STAGE, INDIRANAGAR, BANGALORE-560038, KARNATAKA, INDIA BANGALORE -----

2)VINAY NANDEESH

Address of Applicant :DIGITALAPICRAFT PRIVATE LIMITED, #3366, SHIVAJIYTI, 13TH MAIN, HAL 2ND STAGE, INDIRANAGAR, BANGALORE-560038, KARNATAKA, INDIA BANGALORE -----

3)CHANDRAHAS D

Address of Applicant :DIGITALAPICRAFT PRIVATE LIMITED, #3366, SHIVAJIYTI, 13TH MAIN, HAL 2ND STAGE, INDIRANAGAR, BANGALORE-560038, KARNATAKA, INDIA BANGALORE -----

4)KAUSHAL SHRIYAN

Address of Applicant :DIGITALAPICRAFT PRIVATE LIMITED, #3366, SHIVAJIYTI, 13TH MAIN, HAL 2ND STAGE, INDIRANAGAR, BANGALORE-560038, KARNATAKA, INDIA BANGALORE -----

(57) Abstract :

A system (100) for securing open banking application programming interface is disclosed. An organisation registration module (110) enables a consumer developer to register a corresponding organisation on an application programming interface portal. An organisation setup module (120) receives a certificate signing request uploaded by the consumer developer, generates one or more digital identification regulation certificates corresponding to a predefined requirement of the open banking, generates software statement assessment for registering a consumer application, uploads a private key and select the one or more digital identification regulation certificates on the API portal. A client registration module (130) creates a dynamic client registration form required for a dynamic client registration request, captures one or more inputs corresponding to one or more request fields of the dynamic client registration form, creates a dynamic client registration request body for the API and enable making of the API call using mutual transport layer security. FIG. 1

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2022

(21) Application No.202241032410 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL CIRCULARLY POLARISED RECTENNA FOR RF ENERGY SCAVENGING

(51) International classification :H01Q0009040000, H01Q0001240000, H02J0050270000, H02J0050200000, H02J0050400000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Er. Arjun B Murali

Address of Applicant :Department of Electronics SAINTGITS College of Engineering Kottukulam Hills Pathamuttom Kottayam

2)Er. Jagadish Chandran G

3)Dr. Ansal K. A

4)Nina Cleetus

5)Dr. Binu K. Mathew

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Nina Cleetus

Address of Applicant :Department of Electronics and Communication SAINTGITS College of Engineering Kottukulam Hills Pathamuttom Kottayam -----

2)Dr. Ansal K. A

Address of Applicant :Associate Professor Department of Electronics and Communication SAINTGITS College of Engineering Kottukulam Hills Pathamuttom Kottayam -----

3)Er. Jagadish Chandran G

Address of Applicant :Assistant Professor Department of Electronics and Communication College of Engineering Munnar -----

4)Er. Arjun B Murali

Address of Applicant :Department of Electronics SAINTGITS College of Engineering Kottukulam Hills Pathamuttom Kottayam -----

(57) Abstract :

A circuit that derives energy from RF or microwave energy sources is designed, measured, and tested. Three general categories of sources can be distinguished: intentional sources, anticipated ambient sources, and unknown ambient sources. The key element of this system is a rectenna (an antenna and rectifier circuit) that is optimized for receiving microwave signals of low power density and converting them into DC voltage. There are two rectennas designed in this work that operate at 1800 MHz and 2450MHz. Because of the fact it does not require an input lowpass filter and via-hole connections, the rectenna circuit presented in this work is well suited for wireless sensor applications as well as reduces the complexity of the structure. To obtain the full rectenna, a 2.45GHz linearly polarized patch antenna has been designed and connected to the microwave rectifier. When the transmitted power was 4.5 mW, the rectifier was able to generate a dc voltage of 1.75 V across a 1000W load resistor. Ansoft HFSS (High Frequency Structure Simulation) software was used to simulate the patch antenna, and Ansoft Designer was used to estimate the patch dimensions. Agilent ADS (Advanced Design Software) will be used in the second part of this work to optimize the circuit. A number of other equipments are also used for the measurement of rectenna. RF Energy Harvesting System finds applications mainly in the charging of mobile devices and those placed in difficult access environments that work without human intervention for many years, wireless recharging and powering of biomedical electronic implants and in self-powered advanced systems.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2022

(21) Application No.202241032457 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYSTEM OF TEETH EXAMINATION USING DEEP LEARNING

(51) International classification :G06K0009620000, G06K0007100000, G01N0021880000, A61B0005000000, G01N0021170000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL

Address of Applicant :SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. SYED ZAKAULLAH

Address of Applicant :PROFESSOR & PRINCIPAL/DEAN, DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

2)DR. GHOSIA FATIMA

Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF PERIODONTICS, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

3)DR. NEHA BHUTANI

Address of Applicant :READER, DEPARTMENT OF PERIODONTICS, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

4)DR. PARVEZ ABUBAKAR

Address of Applicant :READER, DEPARTMENT OF PROSTHODONTIC & CROWN AND BRIDGE, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

5)DR. SUMA B SATENAHALLI

Address of Applicant :READER, DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

6)DR. MOHAMMAD KHAJA MOINUDDIN

Address of Applicant :SR. LECTURER, DEPARTMENT OF ORAL PATHOLOGY & MICROBIOLOGY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

7)DR. NAMIRA KAROBARI

Address of Applicant :SR. LECTURER, DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

(57) Abstract :

A SYSTEM OF TEETH EXAMINATION USING DEEP LEARNING Discloses herein a system of teeth examination using deep learning comprises Camera (101), Image Classification system (102); Sensors (103), Internet of Things (104); GUI (105); wherein a digital camera will be a key component of this system which captures image of tooth; wherein Image Classification system (102): In order to recognize the health of tooth that can possibly create a distraction. User need to classify images captured by a camera to activate the system from the ideal state, there are various techniques under artificial intelligence that can be used to do so, with the help of these techniques System classifies images captured by the camera to trigger sensors for further prevention to entry under the protected region. The Sensors measures the conditions to a wide range of objects regardless of shape, color, or surface texture; and they are also able to measure the physical conditions and send the information to the user or dentist through wireless technology. The Internet of things describes physical objects that are embedded with sensors, processing ability, software, and other technologies that connect and exchange data with other devices and systems over the Internet or other communications networks.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2022

(21) Application No.202241032458 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : ORAL CARE MONITORING SYSTEM AND METHODS THEREOF

(51) International classification :A61Q0011000000, A61B0005000000, G06N0003080000, G06K0009620000, G06K0009000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL

Address of Applicant :SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. SYEDA ARSHIYA ARA

Address of Applicant :PROFESSOR & HOD, DEPARTMENT OF ORAL MEDICINE & RADIOLOGY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

2)DR. SHEREEN FATIMA

Address of Applicant :PROFESSOR, DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

3)DR. TANVEER FATIMA

Address of Applicant :READER, DEPARTMENT OF PROSTHODONTIC & CROWN AND BRIDGE, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

4)DR. SAYEEDA LAEQUE

Address of Applicant :READER, DEPARTMENT OF ORTHODONTICS & DENTOFACIAL ORTHOPEDICS, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

5)DR. GHATOLE KIRAN

Address of Applicant :READER, DEPARTMENT OF CONSERVATIVE & ENDODONTICS, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

6)DR. NAGAVENI M SANGAVI

Address of Applicant :SR. LECTURER, DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

7)DR. UZMA ROOHI

Address of Applicant :SR. LECTURER, DEPARTMENT OF ORAL MEDICINE & RADIOLOGY, AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL, SY. NO. 12, GDA LAYOUT, DARIYAPUR, NAGANHALLI ROAD KALABURAGI, KARNATAKA - 585102 INDIA KALABURAGI -----

(57) Abstract :

ORAL CARE MONITORING SYSTEM AND METHODS THEREOF Discloses herein an oral care monitoring system comprises an IoT based system of oral health monitoring, comprising a Raspberry Pi platform, a transceiver module, a Wi-Fi modem, sensor nodes 101, a microphone 102, speaker (103) and a real time clock (RTC) 104 and a LoRa module (105); wherein, the sensor nodes are a temperature sensor, a LDR sensor, a pH sensor, a humidity sensor. The micro unit placed in the mouth is the primary for detecting and monitoring the status changes of teeth are therefore expected to detect and prevent dental diseases at their early stage; and a vision-based node is the unit of the system that provides the visuals inputs to the computing unit. The pre-trained deep learning (DL) model is powered to the computing unit to identify the unusually changes and objects based on visual data. The pre-trained deep learning (DL) model is powered to the computing unit to identify the unusually changes and objects based on visual data. In case, if the DL model identifies any object about to pass through the tooth, then the computing unit generates the alert and communicate it to the unit.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2022

(21) Application No.202241032501 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A METHOD TO DECONTAMINATE SOLID SURFACE

(51) International classification :A01N0033120000, B01J0037080000, A61K0008410000, B82Y0040000000, C02F0001500000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BIOMONETA RESEARCH PVT LTD

Address of Applicant :Floors 1 and 2, 1401, Railway Parallel Road, Sahakara Nagar Bangalore - 560092, Karnataka, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Arindam Ghatak

Address of Applicant :C/O Biomoneta Research Private Limited, 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India -----

2)Srividya Janani Venkatraman

Address of Applicant :C/O Biomoneta Research Private Limited, 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India. -----

3)Santanu Datta

Address of Applicant :C/O Biomoneta Research Private Limited, 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India -----

4)Sujit Kumar Biswas

Address of Applicant :10/C Dr. Suresh Sarkar Road, Kolkata 700014, West Bengal, India -----

5)Kadambi Sarangapani Ramanujan

Address of Applicant :C/O Biomoneta Research Private Limited, 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India -----

6)Debosmita Kundu

Address of Applicant :C/O Biomoneta Research Private Limited, 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India -----

7)Sujith Raju

Address of Applicant :C/O Biomoneta Research Private Limited, 1401, Railway Parallel Road, Block A, Sahakarnagar, Bangalore 560092, Karnataka, India -----

(57) Abstract :

A METHOD TO DECONTAMINATE SOLID SURFACE ABSTRACT The instant disclosure relates to microbial decontamination of solid surfaces. The disclosure provides method for reducing or eliminating microbes from a solid surface by employing a combination of quaternary ammonium compound coating onto the solid surface and electric field application. Particularly, the method comprises subjecting a solid surface to an electric field comprising a voltage of 2 kV/cm to 6 kV/cm and a capacitance of 0.002 μ F to 0.06 μ F, to reduce or eliminate the microbes from the solid surface, wherein said solid surface comprises a coating of quaternary ammonium compound. Corresponding products including kit and solid material/device are also provided. The present method has several advantages including but not limiting to high efficiency ($>4\log_{10}$ or $>99.99\%$) in reducing/eliminating microbial load on solid surfaces; requirement of very low concentrations of quaternary ammonium compound [about 0.01% (w/v) to 1% (w/v)] to achieve said high efficiency; and shorter time-periods.

No. of Pages : 44 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2022

(21) Application No.202241032526 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Intelligent Translator for the deaf and dumb (ITDD)

(51) International classification :G09B0021000000, G06K0009000000, G06F0003010000, G10L0015260000, G09B0021040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SHAMGAR SOFTWARE SOLUTIONS
Address of Applicant :D.No:12-141/1 PM Palem Visakhapatnam A. P. INDIA 530041 Visakhapatnam -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Dr Uttam Mande
Address of Applicant :D.No:12-141/1 PM Palem Visakhapatnam A. P. INDIA 530041 Visakhapatnam -----
2)Sammy Mande
Address of Applicant :D.No:12-141/1 PM Palem Visakhapatnam A. P. INDIA 530041 Visakhapatnam -----
3)Dr. Vijaya Babu K
Address of Applicant :H.No:7-13-3, MK Housing III cross, AU outgate down Guntur A.P INDIA 530017 Visakhapatnam -----
4)Dr Ramesh Babu P
Address of Applicant :20 Graydon Hall Drive North York ON M3A 3A1 Toronto,Canada Visakhapatnam -----
5)Dr. Murali Malijeddi
Address of Applicant :55-12-14 MMT COLONY SERETHAMMADHARA VISAKHAPATNAM A.P INDIA 530022 Visakhapatnam -----
6)G. Arun Manohar
Address of Applicant :50-94-25/12, , arun apartments Shantipuram Visakhapatnam Andhra pradesh India 530041 Visakhapatnam -----
7)Ms. Rita Roy
Address of Applicant :203 Sai Akhil Residency T C Palem Visakhapatnam Andhra Pradesh INDIA 530016 Visakhapatnam -----
8)Mrs. Ch Kavitha
Address of Applicant :Plot No: 22 Nallamaremma colony Vizianagaram Andhra Pradesh India 535002 Visakhapatnam -----
9)Ruth Mande
Address of Applicant :D.No:12-141/1 PM Palem Visakhapatnam A. P. INDIA 530041 Visakhapatnam -----
10)Mr. K Chaitanya
Address of Applicant :D.No: 5-27 Middle street, Simhachalam Visakhapatnam Andhra Pradesh India 530028 Visakhapatnam -----
11)Mr. K. Sunny
Address of Applicant :2-18 Hanumatha Rao Nagar Mahabubabad Telangana INDIA 506101 Visakhapatnam -----
12)Mr. B. Harshith Roy
Address of Applicant :23-32-2 Paidimamba colony, Gajuwaka Visakhapatnam A. P INDIA 530026 Visakhapatnam -----
13)Mr. Akash Manchili
Address of Applicant :Plot No: 104, MK suriya appartments Beside Cricket stadium Visakhapatnam A. P INDIA Visakhapatnam -----
14)Mr. Rupesh Karanam
Address of Applicant :40-51-10/1 Santhosh Nagar Visakhapatnam A. P INDIA 530016 Visakhapatnam -----
15)Mr Praveen Mande
Address of Applicant :D.No:12-141/1 PM Palem Visakhapatnam A. P. INDIA 530041 Visakhapatnam -----

(57) Abstract :

Sign language is a computer vision language that absorbs the signs like hand movement integration with facial expressions. Sign language is an ordinary language followed by people with a low level or no sense of hearing for conveying information like Deaf and Dumbs. Here a novel model was designed which converts sign language to voice and also converts voice with combination emotion capturing and translates into sign language which will be displayed on Smart glasses. Here the smart glass technology is used. And NLP (Natural Language Processing) Tools are used for voice to text and Machine Learning techniques used which helps classification models for emotion recognition and image categorizations. A microcontroller to process this translator operations and control operations. over this total system will be given power supply by rechargeable battery. With all these features this created system performs better communication between both deaf and dumb person and normal person.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241032599 A

(19) INDIA

(22) Date of filing of Application :07/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A COMPOSITION OF A READY TO USE ASCORBIC ACID INJECTION AND A METHOD THEREOF

(51) International classification	:A61K0009000000, A61K0009080000, A61K0008670000, G03C0005300000, A61K0031417200	(71)Name of Applicant : 1)MAIVA PHARMA PRIVATE LIMITED Address of Applicant :NO. 32, SIPCOT INDUSTRIAL COMPLEX (PHASE-I), HOSUR, KRISHNAGIRI, TAMIL NADU, 635126, INDIA HOSUR -----
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)ALAGUMURUGAN ALAGARSWAMY
Filing Date	:NA	Address of Applicant :HOUSE NO. 3/188-4, 2ND CROSS STREET, MARUTHI NAGAR EXTENSION, LANDMARK: V.S. TVS SHOWROOM, HOSUR, TAMILNADU - 635109, INDIA HOSUR -----
(62) Divisional to Application Number	:NA	2)BHASKAR KRISHNA ARUMUGAM
Filing Date	:NA	Address of Applicant :HOUSE # 52, FERNS CITY, OUTER RING ROAD, DODDANEKKUNDI, MARATHAHALLI COLONY, BANGALORE NORTH, KARNATAKA- 560037, INDIA HOSUR -----

(57) Abstract :

A composition (10) of a ready to use ascorbic acid injection (50) is provided. The composition includes 2.5 percentage by weight ascorbic acid (20). The composition also includes 0.00125 percentage by weight edetate disodium (30). The composition further includes 1.193 percentage by weight sodium bicarbonate (40). FIG. 1

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : Intelligent Headlight Brightness Auto-Adjustment System for Vehicle

(51) International classification :B60Q0001140000, B60Q0001080000, B60Q0001120000, G02C0007100000, G08G0001096700

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)Dr. Neeraj Kumar Shukla

Address of Applicant :Associate Professor, Department of Electrical Engineering, King Khalid University, Abha, Asir, Saudi Arabia - 62529 --

2)Joseph Godfrey A**3)Dr. Kamalakkannan Adhisekar****4)Dr. Prasanth Kumar Mallipudi****5)S.V. Ramanan****6)Avinash Dattatray Chavan****7)M. K. Mariam Bee****8)Dr. Mahalinga V. Mandi**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Neeraj Kumar Shukla

Address of Applicant :Associate Professor, Department of Electrical Engineering, King Khalid University, Abha, Asir, Saudi Arabia - 62529 --

2)Joseph Godfrey A

Address of Applicant :Assistant professor, Department of Electrical Engineering, St Joseph engineering College, Mangalore, Karnataka - 575028 -----

3)Dr. Kamalakkannan Adhisekar

Address of Applicant :Department of Corporate secretaryship and accounting finance, College of Science and Humanities, SRMIST, Kattankulathur, Kanchipuram, Tamilnadu - 603203 -----

4)Dr. Prasanth Kumar Mallipudi

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Anil Neerukonda Institute of Technology and Sciences, Visakhapatnam, Andhra Pradesh - 531162 -----

5)S.V. Ramanan

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, PPG Institute of Technology, Coimbatore, Tamilnadu - 641035 -----

6)Avinash Dattatray Chavan

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, St. John College of Engineering & Management, Palghar, Maharashtra - 401404 -----

7)M. K. Mariam Bee

Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering/ Robotics, Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai, Tamilnadu - 600124 -----

8)Dr. Mahalinga V. Mandi

Address of Applicant :Professor, Department of Electronics and Communication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru, Karnataka - 560056 -----

(57) Abstract :

The standard front illumination system is now the leading cause of night-time accidents while driving at night. Driving at night on roads is challenging because of the glare from cars travelling in the other direction on national and state roadways, vehicles utilise high lights, which is a nuisance to traffic in the opposite direction. In addition, when a car makes a sharp bend, the headlights don't aim in the direction we want to go. Since this is the case, we suggest a headlight-illuminating automated system while making a steep curve. An Arduino-powered headlight system can automatically turn the light to a low beam by sensing traffic in the opposite direction, reducing the glare on other road users. As a result, drivers can have a more enjoyable, safe, and trauma-free journey.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2022

(21) Application No.202241032623 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : IoT Enabled Effective vacant seats management system for moving bus transportation

(51) International classification :G01C0021200000, G06Q0050300000, G06Q0010060000, H04N0101000000, G06F0013400000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)Dr. S.Markkandeyan

Address of Applicant :Professor, Department of Information Technology, KSR Institute for Engineering and Technology, KSR Nagar, Tiruchengode - 637215, Namakkal(D.T), Tamilnadu Tiruchengode -----

2)Manjula R

3)Dr. G. Raja Priya

4)Dr. Sachikanta Dash

5)Dr. Jibanananda Mehena

6)Dr. Pratap Chandra Pradhan

7)Dr. Nayan Ranjan Samal

8)Krishna Priya Chakraborty

9)Dr. Shweta Saibal Samanta Sahoo

10)Mr. Mukunda BG

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. S.Markkandeyan

Address of Applicant :Professor, Department of Information Technology, KSR Institute for Engineering and Technology, KSR Nagar, Tiruchengode - 637215, Namakkal(D.T), Tamilnadu Tiruchengode -----

2)Manjula R

Address of Applicant :Assistant Professor, ECE Department, Gitam deemed to be University, Gitam School of Technology, Doddaballapura Bengaluru rural, Karnataka, India Doddaballapura -----

3)Dr. G. Raja Priya

Address of Applicant :Head & Associate Professor, PG Department of Commerce, Sree Muthukumaraswamy College, Muthamil Nagar, Kodungaiyur, Chennai – 600118, Tamilnadu, India Chennai -----

4)Dr. Sachikanta Dash

Address of Applicant :Associate Professor, Computer Science and Engineering, GIET University, Gunupur, Rayagada District, Odisha Gunupur -----

5)Dr. Jibanananda Mehena

Address of Applicant :Professor & HOD, Dept. Of. Electronics & Telecommunication Engineering, DRIEMS, BPUT, Tangi, Cuttack, Odisha 754022 Tangi -----

6)Dr. Pratap Chandra Pradhan

Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, DRIEMS, BPUT, Tangi, Cuttack, Odisha 754022 Tangi - -----

7)Dr. Nayan Ranjan Samal

Address of Applicant :Professor, Department of Electrical Engineering, DRIEMS, BPUT, Tangi, Cuttack, Odisha 754022 Tangi -----

8)Krishna Priya Chakraborty

Address of Applicant :Assistant Professor, Dept. Of MTTM, Karnataka College of Management and Science, Bangalore, Karnataka, India Bangalore -----

9)Dr. Shweta Saibal Samanta Sahoo

Address of Applicant :Assistant Professor, Faculty of Management Studies, Sri Sri University, Cuttack, Odisha, India Cuttack -----

10)Mr. Mukunda BG

Address of Applicant :Assistant Professor, Department of Tourism and Travel Management, Karnataka College of Management and Science, Bangalore, Karnataka, India Bangalore -----

(57) Abstract :

The current invention reveals a method for managing empty seats on moving buses that are enabled by the internet of things (IoT), as well as the system itself. The method was developed by the inventor of the current system. The person who is credited with developing the current system also developed the method. The system and method include, but are not limited to, a handheld device with a user interface to view the desired bus on the route available for commuting and checking the vacant seat information in real-time; a GPS unit provided with the handheld device and communication device, which is installed at bus stand; an infrared sensor to detect further movement and a number of the commuters entered the bus in conjunction with a camera device; and an infrared sensor to detect further movement in conjunction with the camera device. A user notification is also sent to the handheld device, which informs the user of the destination that is rapidly approaching, as well as the destination that will ultimately be reached, along with an estimate of the amount of time that will be required to reach the destination. In addition, the user is informed of the amount of time that will be required to reach the destination.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : A DEVICE FOR EARLY DETECTION OF SUBCLINICAL MASTITIS IN THE MILK OF DAIRY ANIMAL

(51) International classification :G01N0033040000, A01J0005013000, A01J0005007000, G01N0027060000, C07D0213300000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)CHIMERTECH PRIVATE LIMITED Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu vellore ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. RAGUL PARAMASIVAM Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 2)Mr. VEERAMANI VEERAPPAN Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 3)Mr. MAHESH PRABU ELANGO VAN Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 4)Mr. RANJITHKUMAR DHANDAPANI Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 5)Dr. RAMALAKSHMI SUBBARAYALU Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 6)Ms. BHAVADHARANI PRABHU Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 7)Mr. ARUNKUMAR NANDEESHWARAN Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 8)Mr. SIDDARTH PARAMASIVAM Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, Sindu Garden, Gopalapuram, Kazhinjur, Vellore-632006 Tamilnadu Vellore ----- 9)Dr. SARAVANAN MUTHUPANDIAN Address of Applicant :AMR AND NANOMEDICINE LABORATORY, DEPT. OF PHARMACOLOGY, SAVEETHA DENTAL COLLEGE, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES (SIMATS), CHENNAI- 600077 Chennai ----- 10)Dr KARTHIK DEEKONDA Address of Applicant :CHIMERTECH PRIVATE LIMITED 16, SINDU GARDEN, GOPALAPURAM, KAZINJUR VELLORE, VELLORE TAMILNADU 632006 Vellore -----

(57) Abstract :

A DEVICE FOR EARLY DETECTION OF SUBCLINICAL MASTITIS IN THE MILK OF DAIRY ANIMAL A device for early detection of subclinical mastitis in the milk of dairy animal relates to a device for detecting early subclinical mastitis in milk of the cattle which is useful in Animal husbandry and Dairy technology, particularly relate to a device for determining somatic cells through electrical conductivity from the milk sample of cattle. More particularly the present invention further detects subclinical mastitis along with pH, the temperature of milk, point of care subclinical mastitis detection device for cattle thereof. The device (100) detects teat to teat milk variation for subclinical mastitis along with pH and temperature of the milk. The device helps in reducing milk loss and financial losses. It is simple to operate, portable, robust, reagent free, has no wastage of milk and works for all breeds of cattle.

No. of Pages : 42 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202243031470 A

(19) INDIA

(22) Date of filing of Application :01/06/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : IMPROVED SYNERGISTIC GAS NANOEMULSION COMPOSITIONS AND METHODS OF SYNTHESIS THEREOF

(51) International classification	:A61K0009107000, A61K0047100000, A61K0009510000, A61K0008190000, A61K0047420000	(71)Name of Applicant : 1)B.S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Seethakathi Estate, GST Road, Vandalur, Chennai - 600048, Tamil Nadu Vandalur -----
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:01/01/1900	(72)Name of Inventor : 1)Dr. KARTHIKEYAN RAMALINGAM Address of Applicant :Dean Student Affairs & Chief Proctor (Discipline), Associate Professor, School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai - 600048, Tamil Nadu Vandalur -----
Filed on		
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Improved synergistic gas nanoemulsion ozonated compositions are disclosed. The improved synergistic gas nanoemulsion ozonated compositions comprise synergistic gas nanoemulsion ozonated compositions. The synergistic gas nanoemulsion ozonated compositions comprise: a surfactant; ethanol or glycerol; an oil; ozone gas or O3 or trioxygen; an at least an antimicrobial agent; and distilled water. Said improved synergistic gas nanoemulsion ozonated compositions are characterized in that said compositions comprise biogenic silver nanoparticles. The disclosed compositions offer at least the following advantages: do not involve harmful or hazardous chemicals; are cost-effective; are easy to synthesize; often result in controlled sizes, with more stable nanomaterials; and overcome current limitations in nanomedicine.

No. of Pages : 29 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131008081 A

(19) INDIA

(22) Date of filing of Application :25/02/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ENERGY DENSE NUTRITIVE FOOD HAVING BALANCED NUTRITIONAL COMPOSITION AND PROCESS FOR PREPARATION

(51) International classification :A23L0033000000, A23L0033105000, A23L0025000000, A23L0033155000, A23L0033150000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)THE DIRECTOR RESEARCH, DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY

Address of Applicant :Dr. Rajendra Prasad Central Agricultural University, Pusa Samastipur Bihar India 848125 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Usha Singh

Address of Applicant :Professor cum Chief Scientist Department of Food & Nutrition, College of Community Science Dr Rajendra Prasad Central Agricultural university, Pusa (Samastipur)-848125. Bihar, India -----

(57) Abstract :

Title of Invention: ENERGY DENSE NUTRITIVE FOOD HAVING BALANCED NUTRITIONAL COMPOSITION AND PROCESS FOR PREPARATION The energy dense nutritive food having balanced nutritional composition comprising easily available ingredients selected from processed cereals selected from wheat ranging from 8 to 12wt %, processed pulse selected from green gram ranging from 7 to 9wt% ,processed nuts selected from groundnuts ranging from 27 to 35wt %., sugar ranging from 24 to 30wt % , ghee in 8 to14 wt %. and milk powder in 14 to 18wt % is effective for nutritional management of Severe Acute Malnourished children by helping them to come under normal condition. Advantageously the said formulation is user friendly, stable at room temperature upto 5 months .

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231019824 A

(19) INDIA

(22) Date of filing of Application :31/03/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : EX-SITU PLANT GROWTH SYSTEM

(51) International classification :A01G0031020000, A01G0007040000, F24F0006120000, A01G0009240000, A01G0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Aweek Samanta

Address of Applicant :Dr. Aweek Samanta Prabhat Kumar College, Contai, Karkuli, West Bengal, 721401 -----

-

2)Mr. Subir Samanta

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Aweek Samanta

Address of Applicant :Dr. Aweek Samanta Prabhat Kumar College, Contai, Karkuli, West Bengal, 721401 -----

-

2)Mr. Subir Samanta

Address of Applicant :Prabhat Kumar College, Contai, Karkuli, West Bengal, 721401 -----

(57) Abstract :

Ex-Situ Plant Growth System The present invention discloses the design and development of low cost growth chamber for the plant and specifically the invention provides an environment controlling system for plant growing . Most specifically, the device is used as a plant hardening chamber for growing in vitro grown plants according to the climate of the place. The invention the device comprises of Ultrasonic Humidifier, LED light panel, probe for temperature control, four timer, blower, solar controller, LCD display board, sprinkler system, programmable microcomputer to control the timer. In another aspect of the invention, stopcock /valve is used to control the water flow from main chamber to inside chamber as per change of outside environment and requirement of the inside plants. Humidifier and temperature is controlled and regulated as per requirement in the chamber.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231020823 A

(19) INDIA

(22) Date of filing of Application :07/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A STORAGE SYSTEM FOR STORING AND PRESERVING ONION BULBS

(51) International classification :B65D0081260000, F25D0017040000, B65D0077200000, G11B0007006500, A47B0088400000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PRITHWIRAJ ADHIKARY
Address of Applicant :Shreenagar Main Road, Panchasayar, Kolkata-700094, West Bengal, India -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)PRITHWIRAJ ADHIKARY
Address of Applicant :Shreenagar Main Road, Panchasayar, Kolkata-700094, West Bengal, India -----

(57) Abstract :

ABSTRACT TITLE: A STORAGE SYSTEM FOR STORING AND PRESERVING ONION BULBS The present invention disclosure relates to a storage system (100) for storing and preserving onion bulbs without involving any external cooling agent. The storage system comprises of a storage chamber (101) in which stacks of onions are placed. The storage chamber (101) is provided with an ideal condition of temperature (25C-30C) and relative humidity (65%-70%) through an air handling unit (AHU) (112) incorporated with a plurality of sensors for maintaining quality of onions. Three types of air inlets (112-4, 112-6 and 112-8) are managed by the AHU (112) which creates an ideal temperature and humidity at different time intervals. The AHU (112) has at least four evaporative walls (112-1) for preserving the ideal conditions. Moreover, the underground air inflow tunnels (112-6) are covered with sand for heat distribution. Therefore, the storage system (100) effectively enhances storage life of onions and also have a low construction and running cost. {Figure 1 and 2}

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231022230 A

(19) INDIA

(22) Date of filing of Application :13/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ALUMINA BASED DEEP EUTECTIC SOLVENT COMPRISING BENZOPHENONE AND BIPHENYL AS HEAT TRANSFER MEDIA

(51) International classification	:C09K0005100000, G01N0025000000, G01R0033460000, G01N0024080000, G01N0033220000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI Address of Applicant :Indian Institute of Technology Guwahati, North Guwahati- 781039, District: Kamrup (R), Assam, India -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Pyarimohan Dehury
Filing Date	:NA	Address of Applicant :Molecular Simulation and Interfacial Phenomenon Laboratory, Department of Chemical Engineering, Indian Institute of Technology Guwahati, North Guwahati, Assam, India 781039 -----
(62) Divisional to Application Number	:NA	2)Prof.Tamal Banerjee
Filing Date	:NA	Address of Applicant :Molecular Simulation and Interfacial Phenomenon Laboratory, Department of Chemical Engineering, Indian Institute of Technology Guwahati, North Guwahati, Assam, India 781039 -----

(57) Abstract :

This invention narrates the development of Alumina based Deep Eutectic Solvent (DES) based heat transfer fluid (HTF). More precisely this invention relates to the formulation of heat transfer fluid which contain alumina nanoparticles and a mixture of Benzophenone and Biphenyl at a particular molar ratio (NDDDES). The synthesized base fluid i.e., DES is characterized by H1 and 2D Nuclear Magnetic Resonance (NMR) spectroscopy in order to confirm the hydrogen bonding. The stability of the synthesized nanofluids were also measured. The basic properties like density, viscosity, thermal conductivity and specific heat capacity were also measured. Figure 1

No. of Pages : 22 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231022577 A

(19) INDIA

(22) Date of filing of Application :16/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : MOTION BLUR EMBEDDED NEAREST PROXIMATE PATCH REPRESENTATION BASED ROBUST FACE HALLUCINATION SYSTEM AND METHOD THEREOF

(51) International classification :G06T0005000000, G06T0007000000, G06T0005200000, G06T0003400000, G06K0009620000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NATIONAL INSTITUTE OF TECHNOLOGY, PATNA

Address of Applicant :Patna – 800005, Bihar, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHYAM SINGH RAJPUT

Address of Applicant :Department of Computer Science and Engineering, National Institute Of Technology, Patna, Ashok Rajpath, Patna – 800005, Bihar, India -----

2)DEEPAK RAI

Address of Applicant :Department of Computer Science and Engineering, National Institute Of Technology, Patna, Ashok Rajpath, Patna – 800005, Bihar, India -----

(57) Abstract :

ABSTRACT MOTION BLUR EMBEDDED NEAREST PROXIMATE PATCH REPRESENTATION BASED ROBUST FACE HALLUCINATION SYSTEM AND METHOD THEREOF The present invention relates to a motion blur embedded nearest proximate patch representation based robust face hallucination system (100) comprising, a database (1) having plurality of motion blurred input test images, a computing unit (2) for estimation of motion blur kernels; and a processor (3) for improving quality of said motion blurred input images, wherein, said computing unit (2) estimates said motion blur kernels via calculating a structural similarity index and said motion blur kernels helps in identifying a level of motion blur in said motion blurred input test image; and said processor (3) improves quality of said motion blurred input test images by suppressing effect of motion blur via applying said motion blur kernels that produces a set of proximate patches on said images to obtain one or more super resolved output patches which are integrated together to produce a high resolution image. Figure 2 on sheet no. 3 of the drawings may accompany the abstract when published.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231024622 A

(19) INDIA

(22) Date of filing of Application :27/04/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SELF-MANOEUVRABLE ROBOTIC DEVICE FOR FLOOR MOPPING

(51) International classification :A47L0011400000, A47L0009280000, G05D0001020000, G05B0015020000, A47L0011240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Sybylline Robotics Private Limited

Address of Applicant :House No 02, Road No 4B, Saichak Road, Mahavior Nagar, Beur, Anisabad, Patna-800002 ----- -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Pankaj Kumar Singh

Address of Applicant :495, Karahiya , P.S - Gahmar, Karahia Khas,Ghazipur,Uttar Pradesh-232339 -----

2)Ritesh Kumar Singh

Address of Applicant :S/O Uday Pratap Singh, Patehra Kala , Patehara Kalan , Urf - Kubari Pate , Mirzapur , Uttar Pradesh – 231309 -----

(57) Abstract :

The present patent application relates generally to a Self-Manoeuvrable Robotic Device for floor mopping and more specifically to the mechanism of operation of the apparatus having better runtime, by increasing the power backup with higher battery capacity and wherein the path of surface cleaning of the robot in a localized indoor space including household or hospital environment is predetermined or mapped accordingly with limited use of sensors, thereby decreasing the cost.

No. of Pages : 25 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231025508 A

(19) INDIA

(22) Date of filing of Application :02/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ROAD SAFETY DEVICE

(51) International classification :E01F0015040000, E01F0015020000, G08G0001160000, G08G0001070000, E01D0019060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)UTTAM GHORAI

Address of Applicant :VILL-UTTAR CHANCHIARA, PO.-DHULIAPUR, PS.-PANSKURA, PIN-721634, DIST-PURBA MEDINIPUR, WB. -----

2)SANTANU SAMANTA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)UTTAM GHORAI

Address of Applicant :VILL-UTTAR CHANCHIARA, PO.-DHULIAPUR, PS.-PANSKURA, PIN-721634, DIST-PURBA MEDINIPUR, WB. -----

2)SANTANU SAMANTA

Address of Applicant :VILL-KEDARPUR,P.O-PANSKURA R.S.,PS-PANSKURA ,PIN-721152,DIST-PURBA MEDINIPUR,WB, INDIA. -----

3)SANTANU SAMANTA

Address of Applicant :VILL-KEDARPUR,P.O-PANSKURA R.S.,PS-PANSKURA ,PIN-721152,DIST-PURBA MEDINIPUR,WB, INDIA. -----

4)SUDIP KUMAR MAITI

Address of Applicant :VILL-PURUL,PO-HAUR,PS-PANSKURA ,DIST-PURBA MEDNIPUR ,PIN-721131,WB, INDIA. -----

(57) Abstract :

Abstract The present invention relates to a Road Safety Device. More particularly, the present invention relates to the Road Safety Device wherein up and down motor vehicles flashed long light and the said long light shall effect the eyeque of the driver vehicles and automatically the long light will be stopped and short light will be flashed. This invention relates to Road Safety Device. Device which is simple in structure and a user can conveniently and selectively implement the device and novel, reliable, practical.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231025610 A

(19) INDIA

(22) Date of filing of Application :02/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : An AI powered QR code based hybrid lab automation system to record and update the central database with single scan from any hybrid device

(51) International classification :G06Q0050200000, H04L0029080000, G06F0008200000, G06F0008100000, G16H0010400000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Abhijit Tripathy

Address of Applicant :Qr No - E/1, Jail Colony, District Jail, Keonjhargarh -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Abhijit Tripathy

Address of Applicant :Qr No - E/1, Jail Colony, District Jail, Keonjhargarh -----

(57) Abstract :

QR code based lab automation through hybrid software development, which is the one kind of software application which integrates all the repetitive work in a laboratory system on a single system that can be handled by the administrative head and accessed by the students and faculties with valid user id and password. Our software design is briefly based on the requirement model with a few optional features which can be integrated into the future development of the Automation system. We have prepared an API with the usage of Django Rest Framework(python) and deployed the entire database as well as the application in a server(known technically as Dynos) on Heroku cloud(provided by salesforce). Our core Hybrid application is deployed with the help of Netlift CDN, to provide an optimized reload time to the large static files(mainly JS). Our system is capable of providing provisions to the admin to reset, modify, edit, delete and create lab attendance based on sessions before locking it at the end. The hybrid application provides an interface for Artificial intelligence powered QR scanner which enables the students to scan the QR code and mark their presence in a centralized database right from a mobile device. This system is also capable to retain and maintain data due to its robust nature,

No. of Pages : 4 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231025671 A

(19) INDIA

(22) Date of filing of Application :03/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A Coaxial Rotorcraft with Contrarotating Tandem Tail Rotor for Flight Control

(51) International classification :B64C0027820000, B64C0027605000, G05D0001080000, B64C0027100000, B64C0027040000

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Yengkhom Kamaleshwar Singha

Address of Applicant :Village - Kalinagar, Post Office - Dalu -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Yengkhom Kamaleshwar Singha

Address of Applicant :Village - Kalinagar, Post Office - Dalu -----

(57) Abstract :

This invention is a coaxial contrarotating rotorcraft having flight control system in the form of a separate/special arrangement of 'tandem tail rotors'; either coaxial or non-coaxial; at the end of tail boom of the rotorcraft with electro-mechanically or hydraulically or pneumatically actuated revolute joint about the longitudinal axis of tail boom to control its flight and attitude. This eliminates the need for swashplate altogether from the rotorcraft; wherein; an ordinary blade pitch control device can be used instead. This special arrangement of tandem tail rotor creates a turning moment about the center of gravity of the rotorcraft by varying the magnitude of its lift; which can be suitably vectored by an actuating/rotating mechanism about the longitudinal axis of tail boom; for pitch, yaw and roll control, through the revolute joint and its actuation mechanism.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231025795 A

(19) INDIA

(22) Date of filing of Application :03/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A Novel Cost Effective Composite Air Quality Monitoring System with Machine Learning Based Visualization and Analysis Tool

(51) International classification :G01N0033000000, G01N0015060000, A62C0003020000, G08B0021120000, E21F0001000000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Rajesh Kumar Ojha Address of Applicant :Nursinghome Lane, Mngalabag, Mirkamalpatna ----- 2)Sri Sri University Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Rajesh Kumar Ojha Address of Applicant :Nursinghome Lane, Mngalabag, Mirkamalpatna ----- 2)Mr. Mrutyunjay Palai Address of Applicant :Student, Faculty of Science, Sri Sri University, Godisahi, Sri Sri Vihar, Bidyadharpur, Cuttack-754006, Odisha ----- 3)Mr. Tritam Mohanty Address of Applicant :Student, Faculty of Science, Sri Sri University, Godisahi, Sri Sri Vihar, Bidyadharpur, Cuttack-754006, Odisha ----- 4)Dr. Ajoya Kumar Pradhan Address of Applicant :Associate Professor, Department of Electrical Engineering, GITAM, Bhubaneswar, Odisha ----- 5)Dr. Niranjan Panda Address of Applicant :Associate Professor, Department of Computer Science & Engineering, ITER, Siksha 'O' Anusandhan Deemed to be university, Bhubaneswar, Odisha ----- 6)Dr. Tarun Kumar Yadav Address of Applicant :Department of Physics, Institute of Science, Banaras Hindu University, Varanasi ----- 7)Mr.Satyam Kumar Address of Applicant :Department of Physics& Electronics Hansraj College, University of Delhi, Delhi-110007 ----- 8)Mr. Debashreet Das Address of Applicant :Assistant Professor, SCOPE, Vellore Institute of Technology, Vellore -----

(57) Abstract :

Air Quality has been a critical parameter impacting the whole Earth. Air quality can decrease due to the introduction of foreign particles and unwanted chemical compounds into the air. This phenomenon is referred to as Air Pollution. The causes are majorly artificial but many natural phenomena are contributing to the cause. It can be argued that the quality of air all over the globe has faced significant deterioration from the start of the Industrial era. The artificial factors are industries, vehicular pollution, deforestation. The natural factors contributing to the cause primarily include volcanic eruptions, dust, and forest fires. Though there are many solutions to measure the hazard in our Air, the main constraint is the availability of reliable, portable and cost effective systems. The proposed invention meets all the requirements claimed to be absent in most of the devices available in the market. It has sensors fitted to measure the concentrations of pollutants. These data collected are stored in a reliable cloud repository. The GUI utilizes the data to show and forecast trends, and also show AQI of the current deployed location with its category.

No. of Pages : 4 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2022

(21) Application No.202231025905 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : WIRELESS SENSOR NETWORK BASED FOREST FIRE DETECTION USING IOT

(51) International classification :G08B0013196000, H04L0029060000, G08B0017120000, G08B0017000000, H04N0005232000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. SUPRAVA RANJAN LAHA

Address of Applicant :RESEARCH SCHOLAR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SIKSHA 'O' ANUSANDHAN(DEEMED TO BE UNIVERSITY) KHANDAGIRI MARG, DHARAM VIHAR, JAGAMARA BHUBANESWAR, ODISHA 751030 -----

2)Dr. BINOD KUMAR PATTANAYAK

3)Dr. SAUMENDRA PATTNAIK

4)Mr. SUSHIL KUMAR MAHAPATRA

5)Mr. SATYAPRAKASH SWAIN

6)Dr. ASHOK KUMAR P S

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. SUPRAVA RANJAN LAHA

Address of Applicant :RESEARCH SCHOLAR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SIKSHA 'O' ANUSANDHAN(DEEMED TO BE UNIVERSITY) KHANDAGIRI MARG, DHARAM VIHAR, JAGAMARA BHUBANESWAR, ODISHA 751030 -----

2)Dr. BINOD KUMAR PATTANAYAK

Address of Applicant :PROFESSOR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SIKSHA 'O' ANUSANDHAN(DEEMED TO BE UNIVERSITY) KHANDAGIRI MARG, DHARAM VIHAR, JAGAMARA BHUBANESWAR, ODISHA 751030 -----

3)Dr. SAUMENDRA PATTNAIK

Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SIKSHA 'O' ANUSANDHAN(DEEMED TO BE UNIVERSITY) KHANDAGIRI MARG, DHARAM VIHAR, JAGAMARA BHUBANESWAR, ODISHA 751030 -----

4)Mr. SUSHIL KUMAR MAHAPATRA

Address of Applicant :RESEARCH SCHOLAR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SIKSHA 'O' ANUSANDHAN(DEEMED TO BE UNIVERSITY) KHANDAGIRI MARG, DHARAM VIHAR, JAGAMARA BHUBANESWAR, ODISHA 751030 -----

5)Mr. SATYAPRAKASH SWAIN

Address of Applicant :RESEARCH SCHOLAR DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SIKSHA 'O' ANUSANDHAN(DEEMED TO BE UNIVERSITY) KHANDAGIRI MARG, DHARAM VIHAR, JAGAMARA BHUBANESWAR, ODISHA 751030 -----

6)Dr. ASHOK KUMAR P S

Address of Applicant :PROFESSOR DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING DON BOSCO INSTITUTE OF TECHNOLOGY, KUMBALAGODU, BENGALURU 560078 , KARNATAKA, INDIA -----

(57) Abstract :

Forests and provincial flames are one of the primary drivers of natural corruption in Mediterranean nations. Existing fire recognition frameworks just spotlight on location, yet all the same not on the check of the fire. Notwithstanding, practically every one of them are simply recreations, and very scarcely any executions can be found. In addition, the frameworks in the writing need adaptability. In this invention, we show every one of the means followed to play out the plan, innovative work of a remote multi-sensor network, which blends sensors in with IP cameras in a remote network to identify and confirm fire in country and timberland areas of Spain. We have concentrated on the number of cameras, sensors and passages expected to cover a country or back forests region, and the adaptability of the framework. We have fostered a multi-sensor and when it distinguishes a fire, it sends a sensor alert through the remote organization to a focal server. The focal server chooses the nearest remote cameras to the multi-sensor, in view of a product application, which are turned to the sensor that raised the caution, and sends them a message to get ongoing pictures from the zone. The camera lets the firefighters prove the presence of a fire and stay away from deceptions. In this paper, we show the test execution given by a test seat shaped by four remote IP cameras in a few circumstances furthermore, the energy consumed when they are sending. Besides, we concentrate on the energy consumed by every gadget when the framework is set up. The remote sensor organization could be associated with Internet through a passage and the pictures of the cameras should have been visible from any region of the nation.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231025935 A

(19) INDIA

(22) Date of filing of Application :04/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : A novel composition for trapping and killing mosquitoes

(51) International classification	:A01M0001100000, A01N0063300000, A01M0001140000, C12R0001225000, A01N0027000000	(71)Name of Applicant : 1)Dr.Swapan Kumar Ghosh Address of Applicant :Dr.Swapan Kumar Ghosh, Molecular Mycopathology Lab. Cancer Research Unit, Ramakrishna Mission Vivekananda Centenary College (Autonomous) Mission Para, Rahara, Kolkata- 700118 West Bengal, India ----- 2)Anirvan Mukherjee 3)Dipanjan Podder Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor :
Filing Date	:01/01/1900	1)Dr.Swapan Kumar Ghosh Address of Applicant :Dr.Swapan Kumar Ghosh, Molecular Mycopathology Lab. Cancer Research Unit, Ramakrishna Mission Vivekananda Centenary College (Autonomous) Mission Para, Rahara, Kolkata- 700118 West Bengal, India ----- 2)Anirvan Mukherjee Address of Applicant :Molecular Mycopathology Lab. Cancer Research Unit, Ramakrishna Mission Vivekananda Centenary College (Autonomous) Mission Para, Rahara, Kolkata- 700118 West Bengal, India ----- 3)Dipanjan Podder Address of Applicant :Dipanjan Podder, Molecular Mycopathology Lab. Cancer Research Unit, Ramakrishna Mission Vivekananda Centenary College (Autonomous) Mission Para, Rahara, Kolkata- 700118 West Bengal, India -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a unique composition of Methanolic extract (TAME)powder, Spore of Trichoderma asperellum (TAS), Beet root peel dry powder (BRDPP), Sucrose, Yeast extract powder (YP) (Food grade) (Saccharomyces cerevisiae) and lactic acid (Food grade) to kill and trap mosquitoes. The water based mixture of these six active components is housed in a black coloured plastic box capable of luring and killing of all three genera (Anopheles, Aedes, and Culex) of mosquitoes without imposing health hazard or environmental pollution. The proposed system can be installed anywhere in both indoor and outdoor and shows significant efficacy till 2 consecutive weeks post a single operation.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2022

(21) Application No.202231026515 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : Portable Photovoltaic Mounting Assembly for Agrivoltaics

(51) International classification	:F24S0025120000, H02S0020100000, H02S0040220000, H02S0020300000, F24S0025000000	(71)Name of Applicant : 1)Centurion University of Technology & Management (CUTM) Address of Applicant :At-Alluri Nagar, PO-R.Sitapur via-Uppalada, Parlakhemundi, Gajapati District, Odisha, India – 761211. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor :
Filing Date	:01/01/1900	1)Prof. Nimay Chandra Giri Address of Applicant :Department of Electronics and Communication Engineering, Centurion University of Technology & Management (CUTM) Bhubaneswar, Odisha-752050 India -----
(87) International Publication No	: NA	2)Dr. Ramesh Chandra Mohanty Address of Applicant :Department of Mechanical Engineering, Centurion University of Technology & Management (CUTM) Bhubaneswar, Odisha-752050 India -----
(61) Patent of Addition to Application Number	:NA	3)Prof. Jagannath Padhi Address of Applicant :Department of Electrical Engineering, Centurion University of Technology & Management (CUTM) Bhubaneswar, Odisha-752050 India -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT: Title: Portable Photovoltaic Mounting Assembly for Agrivoltaics The present disclosure proposes a portable and adjustable photovoltaic mounting assembly for agrivoltaics that enables mutual sharing of sunlight between farm and solar panels and thereby increases land productivity and revenue of farmers. The photovoltaic mounting assembly 100 comprises at least one solar panel 102, at least one mounting support 104, at least a pair of vertical support members, and plurality of ground support members 110. The usage of photovoltaic panels on the farm lands to enhance the socio-economic indicators such as Benefit-Cost Ratio (BCR), Payback Period (PBP), and Land Equivalent Ratio (LER) of the system. The adjustable photovoltaic mounting assembly provides sufficient amount of sunlight to transfer underneath the mounting assembly for better photosynthesis and food production.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231026693 A

(19) INDIA

(22) Date of filing of Application :09/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN PREDICTIVE MODEL FOR HEALTHCARE IN REAL-TIME

(51) International classification :G16H0040200000, G06Q0050220000, G05B0013040000, G06N0005040000, G06N0020000000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)DR. SUBASISH MOHAPATRA Address of Applicant :ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH, GHATILIA, BHUBANESWAR, ODISHA-751029. ----- 2)AMLAN SAHOO 3)DR. SUBHADARSHINI MOHANTY Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. SUBASISH MOHAPATRA Address of Applicant :ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH, GHATILIA, BHUBANESWAR, ODISHA-751029. ----- 2)AMLAN SAHOO Address of Applicant :ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH, GHATIKIA, BHUBANESWAR, ODISHA-759029,INDIA. ----- 3)DR. SUBHADARSHINI MOHANTY Address of Applicant :ODISHA UNIVERSITY OF TECHNOLOGY AND RESEARCH,KALINGA NAGAR, GHATIKIA, BHUBANESWAR, ODISHA-751029,INDIA. ----- -----

(57) Abstract :

ABSTRACT The present disclosure is a smart patient monitoring system. A sensor is coupled to a device and configured to detect diagnostic data associated with the patient. In particular, it relates to a multiuser remote health monitoring system that is capable of reliably identifying and collecting data from frontline healthcare providers, laboratory and hospital information systems, patients, and healthy individuals in a number of ways, with a view to aid in the field of public health. The system can also be used to collect additional information regarding specifics pertaining to the health of the individuals, and for patient tracking, monitoring, and the collection of individual data.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231026923 A

(19) INDIA

(22) Date of filing of Application :10/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : DEVELOPMENT OF COMPOSITE MATERIALS FOR EFFICIENT ELECTROMAGNETIC INTERFERENCE (EMI) SHIELDING

(51) International classification :H05K0009000000, H01L0023552000, H02M0001440000, H01R0013658100, H01B0001220000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)PAPARI DAS Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR ,ASSAM, INDIA, PIN CODE-788010. ----- ----- 2)ASHISH BHALCHANDRA, DEOGHARE 3)SAIKAT RANJAN MAITY Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)PAPARI DAS Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR ,ASSAM, INDIA, PIN CODE-788010. ----- ----- 2)ASHISH BHALCHANDRA, DEOGHARE Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR ,ASSAM, INDIA, PIN CODE-788010. ----- ----- 3)SAIKAT RANJAN MAITY Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR ,ASSAM, INDIA, PIN CODE-788010. ----- -----

(57) Abstract :

Abstract Tremendous growth in electronics science has given rise to Electromagnetic interference amongst devices that needs to be shielded for smooth performance of devices. In this work, Electromagnetic interference shielding materials are synthesized by using graphene and polyaniline as conductive nanofillers and Paraffin as the matrix. Paraffin wax is melted at 75 °C until a thin slurry is formed. Polyaniline and graphenc-polyaniline nanofiller in weight percentages 1.5% is then dispersed in 98.5 wt. % Paraffin slurry under continuous stirring for a duration of 30 min. The black colour slurry is then poured into desired moulds and air dried at room temperature to form Paraffin composites. The polyaniline/Paraffm composite exhibits an average Electromagnetic Interference Shielding Effectiveness (EMI SE) of 27.6 dB and graphene-polyaniline/Paraffm composite exhibits an average EMI SE of 30.3 dB over a broadband frequency range of 1GHz to 20 GHz.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2022

(21) Application No.202231027007 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL DATA MINING AND MACHINE LEARNING-BASED FRAMEWORK FOR CYBER SECURITY INTRUSION DETECTION

(51) International classification :H04L0029060000, G06N0020000000, G06N0007000000, G06F0021550000, G09B0019000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lingaraj Sethi

Address of Applicant :Ph.D Research Person, Computer Science and Engineering Department, Odisha University of Technology and Research, Bhubaneswar, Odisha - 751003 -----

2)Anil Sharma

3)Sachin Kumar Patil

4)Swathi Pai M

5)Nithya B A

6)Dr. Chabi Gupta

7)Pallavi Singh

8)Amol C. Jadhav

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Lingaraj Sethi

Address of Applicant :Ph.D Research Person, Computer Science and Engineering Department, Odisha University of Technology and Research, Bhubaneswar, Odisha - 751003 -----

2)Anil Sharma

Address of Applicant :University School of Information, Communication & Technology, Guru Gobind Singh Indraprastha University Delhi - 110078 -----

3)Sachin Kumar Patil

Address of Applicant :Assistant Professor, Electronics and Communication Engineering Department, Jain College of Engineering and Research, Belgaum, Karnataka - 590008 -----

4)Swathi Pai M

Address of Applicant :Assistant Professor, Department of Computer Science, School of Applied Sciences, Reva University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka - 560064 -----

5)Nithya B A

Address of Applicant :Assistant Professor, Department of Computer Science, School of Applied Sciences, Reva University, Rukmini Knowledge Park, Kattigenahalli, Yelahanka, Bengaluru, Karnataka - 560064 -----

6)Dr. Chabi Gupta

Address of Applicant :Christ (Deemed-to-be University) Delhi NCR - 201003 -----

7)Pallavi Singh

Address of Applicant :Assistant Professor, Electronics and Communication Engineering Department, Hindustan Institute Of Technology And Science, Chennai - 600016 -----

8)Amol C. Jadhav

Address of Applicant :Assistant Professor, Computer Engineering Department, Sinhgad school of Engineering, Pune, Maharashtra - 411058 -----

(57) Abstract :

This survey paper describes a focused literature survey of machine learning (ML) and data mining (DM) methods for cyber analytics supporting intrusion detection. Short tutorial descriptions of each ML/DM method are provided. Based on the number of citations or the relevance of emerging practice, papers representing each method were identified, read, and summarised. Because data are so crucial in ML/DM approaches, some well-known cyber data sets used in ML/DM are described. The complexity of ML/DM algorithms is addressed, a discussion of challenges for using ML/DM for cyber security is presented, and some recommendations on when to use a given method are provided.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2022

(21) Application No.202231027027 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : TRADING AND EARNING MONEY ONLINE MANAGEMENT AND NOTIFICATION SYSTEM

(51) International classification :G06Q0040060000, G06Q0040040000, G06Q0040020000, G06Q0030060000, G06Q0040000000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Dr. Sujit Kumar Acharya

Address of Applicant :Asst. Professor (Stage III), Business Administration, Directorate of Distance and Continuing Education, UTKAL UNIVERSITY, vanivihar, Bhubaneswar, Odisha -----

2)Dr. Harmeet Matharu

3)Dr.Manoj Kumara N V

4)Mr. D. Saravanan

5)Dr. D. Stalin David

6)Dr Raju Agrawal

7)Dr.G.Arunkumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sujit Kumar Acharya

Address of Applicant :Asst. Professor (Stage III), Business Administration, Directorate of Distance and Continuing Education, UTKAL UNIVERSITY, vanivihar, Bhubaneswar, Odisha -----

2)Dr. Harmeet Matharu

Address of Applicant :Assistant Professor, Department of Commerce, St. Clare College, Bangalore -----

3)Dr.Manoj Kumara N V

Address of Applicant :Associate Professor, Department of Management Sciences, Maharaja Institute of Technology-Mysore -----

4)Mr. D. Saravanan

Address of Applicant :Associate Professor, Department of CSE, IFET College of Engineering, Villupuram, 605108 -----

5)Dr. D. Stalin David

Address of Applicant :Associate professor, Department of Information Technology, Veltech Multitech Dr.Rangarajan Dr.Sakunthala Engineering College, Chennai-62 -----

6)Dr Raju Agrawal

Address of Applicant :Professor, Director, S S Jain Subodh Management Institute, Jaipur -----

7)Dr.G.Arunkumar

Address of Applicant :Associate professor, Department of Computer Science & Engineering, Madanapalle Institute of Technology & Science, Madanapalle, Chittoor District -----

(57) Abstract :

When a customer uses a computer-based trading system, the advisor's computer receives an alert from the system itself. A first alert is sent to the financial advisor's computer in real-time when a customer places an order to trade a financial instrument, including information about the deal. When a transaction is being verified, the user of the financial adviser computer may respond in real-time to the deal before it is executed in response to the first alert. However, in the event of non-validation, the financial advisor's computer receives a second warning. The user of the financial advisor's computer may, in real-time, take action regarding the deal before it is executed.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : IoT and Deep Learning-Based Food Image Recognition and Food Safety Detection Methods using Machine Learning Techniques

(51) International classification :G06K0009620000, G09B0019000000, G06N0003040000, G06N0020000000, G06K0009000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr. Sushant Kumar Pattnaik
 Address of Applicant :Assistant Professor Silicon Institute of Technology, Bhubaneswar
 Pin: 751024 State: Odisha Country: India Bhubaneswar -----
2)Mr. Mithilesh Kumar Pandey
3)Dr. Aasim Mir
4)Dr.B.Vinodhini
5)Dr Navaneet Deshpande
6)Dr Kaushal Rana
7)Dr. Bipin kumar Srivastava
8)Dr. A. Senthilrajan
9)Mr. Pulicherla Siva Prasad
10)Dr.B.Premagowri
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Mr. Sushant Kumar Pattnaik
 Address of Applicant :Assistant Professor Silicon Institute of Technology, Bhubaneswar Pin:
 751024 State: Odisha Country: India Bhubaneswar -----
2)Mr. Mithilesh Kumar Pandey
 Address of Applicant :Research Scholar VBS Purvanchal University, Jaunpur Pin: 222003
 State: Uttar Pradesh Country: India Jaunpur -----
3)Dr. Aasim Mir
 Address of Applicant :Senior Assistant Professor Baba Ghulam Shah Badshah University
 Rajouri Pin Code: 185234 State: Jammu and Kashmir Country: India Rajouri -----

4)Dr.B.Vinodhini
 Address of Applicant :Associate professor SNS College of Technology Pin:641035
 State:TamilNadu Country: India coimbatore -----
5)Dr Navaneet Deshpande
 Address of Applicant :Accredited Management Teacher & Research Guide (SCM)
 No.61B,Chiraneel, Raghavendra Colony,Rani Chennamma Nagar Belagavi- Pin:590 006 State:
 Karnataka Country: India Belagavi -----
6)Dr Kaushal Rana
 Address of Applicant :Asth Professor Mathematics Department Dau Dayal Institute of
 Vocational Education Dr Bhimrao Ambedkar University, Agra 5 Teachers Quater University
 Campus Khandari ,Agra Pin: 282002 State: Uttar Pradesh Country: India Agra -----

7)Dr. Bipin kumar Srivastava
 Address of Applicant :Associate Professor Galgotias College of Engineering and Technology
 1, Knowledge Park-II, Greater Noida, U.P. Pin: 201306 State: U.P. Country: India Noida -----

8)Dr. A. Senthilrajan
 Address of Applicant :Professor and Director Alagappa University, Karikudi , Pin code: 630
 003 State: Tamil Nadu Country: India Karikudi -----
9)Mr. Pulicherla Siva Prasad
 Address of Applicant :Assistant Professor RVR&JC COLLEGE OF ENGINEERING,
 Chowdavaram, Guntur, Andhra Pradesh Pin code: 522019 State: Andhra Pradesh Country:
 India Guntur -----
10)Dr.B.Premagowri
 Address of Applicant :Assistant Professor Department of Clinical Nutrition &Dietetics PSG
 College of Arts & Science, Coimbatore Pin: 641008 State: Tamil Nadu Country: India
 Coimbatore -----

(57) Abstract :

IoT and Deep Learning-Based Food Image Recognition and Food Safety Detection Methods using Machine Learning Techniques Abstract: It is crucial, according to the study, to gain an accurate picture of a person's diet when comparing different weight loss plans. In contrast, the majority of modern methods for measuring nutrition rely on what people remember. Due to the ubiquity of mobile devices and cloud services, it is now possible to construct a modern computer-based food identification system that can accurately evaluate dishes. Accurate food identification and recognition in a wide variety of food photographs, in addition to problem solving. Food goods with little differences between classes and considerable differences within classes, as well as the limited amount of information available at once, make the task more challenging. In the section that follows, we explore how several fusion-trained classifiers can be used to improve identification and recognition based on features from various deep models. This study tested and compared the efficacy of numerous strategies for teaching individuals to identify foods. This was accomplished through a variety of methods and causes. Deep learning surpasses manual feature extraction, conventional machine learning techniques, and deep learning itself as a practical tool for guaranteeing the cleanliness and safety of food.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231027291 A

(19) INDIA

(22) Date of filing of Application :12/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : SUPER-ACHROMATIC QUARTER-WAVE PHASE RETARDER ASSEMBLIES WITH NOVEL COMBINATION OF BIREFRINGENT MATERIALS.

(51) International classification :G02F0001133630, G02B0005300000, G11B0007220000, G01L0001240000, G11B0007123000 (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)NILANJAN MUKHOPADHYAY Address of Applicant :DEPARTMENT OF ELECTRONICS &COMMUNICATION ENGINEERING, GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY. KRISHNAGAR, NADIA-741102, INDIA. ----- 2)DR. ARIJIT SAHA 3)ANIRBAN PATRA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)NILANJAN MUKHOPADHYAY Address of Applicant :DEPARTMENT OF ELECTRONICS &COMMUNICATION ENGINEERING, GLOBAL INSTITUTE OF MANAGEMENT AND TECHNOLOGY. KRISHNAGAR, NADIA-741102, INDIA. ----- 2)DR. ARIJIT SAHA Address of Applicant :137,B.P.PODDAR INSTITUTE OF MANAGEMENT AND TECHNOLOGY,VIP ROAD,KOLKATA-700052,WEST BENGAL, INDIA. ----- - -----

(57) Abstract :

ABSTRACT OF THE INVENTION The invention relates to the novel combination of three different birefringent materials to form a super-achromatic quarter-wave phase retarder for providing nearly constant phase retardation of 90° over a wide wavelength range i.e., 1.2-2.3 urn, wherein three birefringent materials exhibit excellent transmittance, less hygroscopicity, wide operating temperature range, and high mechanical strength, wherein the fast axes of all plates are parallel to each other and they are stack together with refractive index matching materials with a proper thickness of plates achieved after accurate polishing. This novel combination is associated with an excellent tolerance range for thickness variations and temperature change and high overall transmittance throughout the intended wavelength range that can find potential application in solar telescopes used in near-infrared to short-wave infrared regions.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2022

(21) Application No.202231027484 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AUTOMATIC KITCHEN EXHAUST FAN WITH POLLUTION MONITORING SYSTEM

(51) International classification	:F24C0015200000, F24F0110500000, B01D0053860000, G08B0021120000, F24F0110700000	(71)Name of Applicant : 1)Gollakota Ramakrishna Durga Satya Prasad Address of Applicant :G R K D SATYA PRASAD HOD-EEE GIET University, Gunupur ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor : 1)Gollakota Ramakrishna Durga Satya Prasad Address of Applicant :G R K D SATYA PRASAD HOD-EEE GIET University, Gunupur -----
Filing Date	:01/01/1900	2)Dr. Ch. SAI BABU Address of Applicant :Dr. Ch. SAI BABU Professor in EEE JNTU KAKINADA Kakinada -----
(87) International Publication No	: NA	3)Dr. K. VIJAYA KUMAR REDDY Address of Applicant :Professor In Mechanical Engineering JNTU HYDERABAD Hyderabad -----
(61) Patent of Addition to Application Number	:NA	4)Dr.Durga Rao Ramiseti Address of Applicant :Head Department of EEE JNTUH UNIVERSITY COLLEGE OF ENGINEERING MANTHANI Hyderabad -----
Filing Date	:NA	5)SUSARLA ADITYA Address of Applicant :Asst. Professor GIET University Gunupur Rayagada -----
(62) Divisional to Application Number	:NA	6)Nagavarapu Sowmya Address of Applicant :Asst. Professor GIET University Gunupur Rayagada -----
Filing Date	:NA	

(57) Abstract :

All fuels used for cooking create pollution either inside or outside of the house. LPG stoves, kerosene & coal-based stoves can release carbon dioxide, carbon monoxide, particulate matter ranging from 1.5 to 2.5, formaldehyde, and other harmful pollutants that pollute the inside quality of the air. Unfortunately, the majority of the homes do not have proper ventilation procedures or pollution monitoring systems. All unhealthy pollutants generated from the kitchen and accumulating from outside can increase the house's temperature and lead to many health issues like lung infections, headaches, irritation, tiredness, etc. Children and older people with chronic diseases like asthma, heart, and lung diseases are significantly affected more by these harmful effects of indoor air pollution. LPG and biomass-based cooking will generate a lot of air pollution within the kitchen and indoor environment. This will cause more airborne diseases, affects the working performance of the persons, etc., If pollutants and dust particles do not manage properly, these pollutants can be detrimental to everybody. The present kitchen exhaust fans, chimneys, and air purifiers available on the market do not solve these problems. Hence, this proposed model will enable the exhaust fan or kitchen chimney with an automatic ON-OFF option based on the indoor pollution levels. This approach will allow better control of Indoor air quality and energy savings due to its automatic operation.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202231027521 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROSPECTS AND PROBLEMS OF MEDICAL TOURISM IN INDIA WITH REFERENCE TO MUMBAI REGION

(51) International classification :G06Q0050140000, G06Q0050220000, A42B0001040000, G06Q0010040000, A41D0013120000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Punit Gautam

Address of Applicant :ASSOCIATE PROFESSOR, TOURISM AND HOTEL MANAGEMENT, NORTH EASTERN HILL UNIVERSITY, SHILLONG, MEGHALAYA SHILLONG -----

2)Ms. Monika

3)Dr. Sunil Kumar Kabia

4)Dr. Lokeshver Singh Jodhana

5)Ms. Jagruti Das

6)Mr. Sarthak Chourasia

7)Mr. Rashmi Ranjan

8)Mr. Anand Kabia

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Punit Gautam

Address of Applicant :ASSOCIATE PROFESSOR, TOURISM AND HOTEL MANAGEMENT, NORTH EASTERN HILL UNIVERSITY, SHILLONG, MEGHALAYA SHILLONG -----

2)Ms. Monika

Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF TOURISM & HOTEL MANAGEMENT, NORTH EASTERN HILL UNIVERSITY, SHILLONG, MEGHALAYA SHILLONG -----

3)Dr. Sunil Kumar Kabia

Address of Applicant :PROFESSOR DIRECTOR IQAC, TOURISM & HOTEL MANAGEMENT, INSTITUTE OF TOURISM AND HOTEL MANAGEMENT, BUNDELKHAND UNIVERSITY, JHANSI-284128 JHANSI -----

4)Dr. Lokeshver Singh Jodhana

Address of Applicant :ASSOCIATE PROFESSOR & HOD, DEPARTMENT OF TOURISM AND HOSPITALITY MANAGEMENT, MANDSAUR UNIVERSITY, REWAS DEVRA ROAD, MANDSAUR, MADHYA PRADESH-458001 MANDSAUR -----

5)Ms. Jagruti Das

Address of Applicant :RESEARCH SCHOLAR, DIVISION OF DAIRY ECONOMICS, STATISTICS AND MANAGEMENT, ICAR-NATIONAL DAIRY RESEARCH INSTITUTE, KARNAL, HARYANA- 132001 KARNAL ---

6)Mr. Sarthak Chourasia

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF TOURISM AND HOSPITALITY MANAGEMENT, MANDSAUR UNIVERSITY, REWAS DEVRA ROAD, MANDSAUR, MADHYA PRADESH-458001 MANDSAUR -----

7)Mr. Rashmi Ranjan

Address of Applicant :PGT (PHYSICS), DEPARTMENT OF PHYSICS, VISHWAS SISDHYA VIDYODAYA SCHOOL, PALLADAM ROAD, POLLACHI, TAMIL NADU- 642002 Coimbatore -----

8)Mr. Anand Kabia

Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF BANKING, ECONOMICS AND FINANCE, BUNDELKHAND UNIVERSITY, JHANSI, UTTAR PRADESH- 284002 JHANSI -----

(57) Abstract :

[010] The study refers to the state of Maharashtra specifically Mumbai region. The study is limited to travel destinations with medical tourism resources, such as health care providers, medical tourism coordinators, rejuvenation therapy centre, spas and consultants, academics, industry experts, government, Associations and organizations. Also includes international patients in Mumbai, Pune, Aurangabad, Nagpur and Nasik. The special area covers hospitals, medical tourism organizers, associations, industry professionals. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8]

No. of Pages : 26 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202231027721 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : MULTIPURPOSE CLOTHING TRIAL ASSISTIVE DEVICE

(51) International classification :B60S0001080000, G08B0021200000, D06C0007000000, A45B0015000000, G01N0027220000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JIS College of Engineering

Address of Applicant :Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Indranath Sarkar

Address of Applicant :Department of Electronics and Communication Engineering, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

2)Suparna Das Gupta

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

3)Suvajit Sarkar

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

4)Swarnali Sarkar

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

5)Somhrita Ghosh

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

6)Romit Sarkar

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

7)Sayantan Laha

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

8)Siddhartha Barua

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

9)Tanisha Kar

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. Kalyani -----

(57) Abstract :

A multipurpose clothing trial assistive device comprising a U-shaped telescopic frame constructed with multiple horizontal and vertical telescopic rods 1, 2, multiple wheels 3 attached with the frame for maneuvering the frame over a ground surface, an audio unit 4 for providing access to a user to select a type of utility operation(s), a moisture sensor 5 for detecting moisture content present on hung clothes, an air blowing unit 9 for blowing hot air over the hung clothes, multiple clipping units 6 for gripping a covering sheet, a motorized sliding channel 12 for unfolding the sheet along periphery of portion, an image capturing unit 7 for capturing and decoding height of the user, a rain sensor 8 for detecting rain in vicinity to the frame, and a motorized flap 10 for covering apex portion of the frame to prevent the hung clothes from being wet due to rain

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202231027722 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : CARDAMOM PROCESSING DEVICE

(51) International classification	:A61K0036906400, G01N0033240000, H04N0007180000, G08B0025080000, A61M0001360000	(71)Name of Applicant : 1)JIS College of Engineering Address of Applicant :Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor : 1)Utsab Ray Address of Applicant :Department of Biomedical Engineering, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----
Filing Date	:01/01/1900	2)Diprajyoti Majumdar Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----
(87) International Publication No	: NA	3)Sumit Das Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----
(61) Patent of Addition to Application Number	:NA	4)Sabyasachi Sen Address of Applicant :Department of Physics, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cardamom processing device comprises of a housing 1 having first portion 2 arranged with wheels 3 for maneuvering housing 1 over ground surfaces, a primary artificial intelligence based imaging unit 4 for capturing surrounding images, a cylindrical body 5 attached with second portion 6 through extendable rod 7 and arranged with motorized flaps 8 to enclose plant, a secondary imaging unit 9 positioned over motorized spirally coiled member 11 constructed within body's inner periphery for capturing images of cardamoms, a primary laser emitter 10 for cutting cardamoms, a suction unit 12 for withdrawing cardamoms from body 5 to primary container 15 through conduit 13, a secondary laser emitter 14 for cutting inedible cardamom portion, a touch interactive display panel 17 for entering heating time, a moisture sensor 18 assembled within secondary container 19 for detecting moisture and a heating unit 20 arranged within secondary chamber for heating cardamoms.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202231027723 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : BANDAGE DISPENSING DEVICE

(51) International classification :A61F0013000000, A61B0006000000, A61F0013120000, A61F0007100000, A61F0013040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JIS College of Engineering

Address of Applicant :Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Biswarup Neogi

Address of Applicant :Department of Electronics and Communication Engineering, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

2)Sarthak Chatterjee

Address of Applicant :Department of Electronics and Communication Engineering, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

3)Saikat Pal

Address of Applicant :Department of Electronics and Communication Engineering, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

4)Sankha Dey

Address of Applicant :Department of Electronics and Communication Engineering, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

5)Ankita Chakraborty

Address of Applicant :Department of Electronics and Communication Engineering, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

(57) Abstract :

A bandage dispensing device, comprising of a frame 1 comprising a set of vertically placed rods 2 and a chamber 9 which is configured with a pair of primary 16 and secondary motorized rollers 18 wrapped up with a crepe bandage and cotton bandage, an artificial intelligence enabled image capturing module 4 in communication with an X-ray imaging unit 5 that captures multiple images of a user body part to decode level of abnormality, a display panel 6 which displays a particular date and time for dressing/removing bandages along with techniques and procedures of applying bandages, a resting platform 7 to place a specific body part which needs to be urgently treated, a container 10 for spraying/ejecting gel or solutions on burns, cuts and wounds to minimize burning sensation and bleeding, and a motorized pole 13 coiled with a cotton cloth to move to uncoil cloth up to desired lengths.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202231027724 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : DISTANCE POLE MAINTENANCE DEVICE

(51) International classification :G01N0017040000, B08B0001000000, H03K0017955000, E06B0009720000, H02K0011200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JIS College of Engineering

Address of Applicant :Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Niloy Sarkar

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

2)Shreosa Roy

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

3)Sajal Ghorai

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

4)Sayani Sarkar

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

5)Riyaz Islam

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

6)Tanusree Saha

Address of Applicant :Department of Information Technology, JIS College of Engineering, Block A, Phase III, PO & PS - Kalyani, Dist. Nadia, West Bengal, India. -----

(57) Abstract :

A distance pole maintenance device comprising a body 1 having motorized wheels 2 to maneuver, image capturing module 3 installed over body detect thickness of the pole, a pair of motorized rollers 4 with telescopic bristles 6 fabricated with body 1 remove the dust/dirt from pole, image capturing module 3 along with capacitive proximity sensor 7 which is installed within roller 4 determine types of pole surface, a corrosion sensor 8 is used to detecting the presence of the rust over the pole, a telescopic operated brush 10 is fabricated with the body 1 to paint the details mention over the pole, a motorized gripper 12 with vibrating unit installed over to body 1 to determine stability of the pole, a receptacle 13 embedded with multiple of vessels stored with cement, rock and water mixed by the motorized stirrer 16 and dispense by nozzle 17 to maintaining the pole.

No. of Pages : 19 No. of Claims : 9

(54) Title of the invention : ADJUSTABLE NECK SUPPORT DEVICE

(51) International classification :A47G0009100000, A61B0005026000, A47C0016000000, A63B0021000000, A61H0009000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :**1)Narula Institute of Technology**

Address of Applicant :81, Nilgunj Road, Agarpara Kolkata-700109, West Bengal, India. Agarpara -----

Name of Applicant : NA**Address of Applicant : NA****(72)Name of Inventor :****1)Sukanya Chatterjee**

Address of Applicant :Department of Electronics and Communication Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. Agarpara -----

2)Raja Mitra

Address of Applicant :Department of Electronics and Communication Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. Agarpara -----

3)Indrani Das

Address of Applicant :Department of Electronics and Communication Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. Agarpara -----

4)Dr. Anilesh Dey

Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. Agarpara -----

(57) Abstract :

The present invention relates to an adjustable neck support device comprising, a base support 1 that allows a user to place chin comfortably, a support structure 11 to accommodate face of the user comfortably, a pressure sensor 2 to determine amount of pressure exerted by the structure 11 over the user's face, a blood flow sensor 3 to detect the blood flow within the user's body, a telescopic rod 6 to allow the movement of the user's head in multiple directions, a suction unit 7 adheres over chest region of the user to provide support to the user's head, a pair of rollers 8 to wrap a cloth 5 around the user's neck to provide lateral support, a pulley 10 to mount a mask over the user's face in case of depleted air quality and plurality of perforations 13 over the base 1 to supply oxygen for the user.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202231027747 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : AUTOMATIC CAPSULE FILLING DEVICE

(51) International classification :A61J0003070000, C12M0003000000, A61G0012000000, G07F0011720000, A23B0004280000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Narula Institute of Technology

Address of Applicant :81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Bansari Deb Majumdar

Address of Applicant :Assistant Professor, Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

2)Ratul Saha

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

3)Sourab Ghosh

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

4)Hiranangshu Ghosh

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

5)Joy Halder

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

6)Sanmitra Biswas

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

7)Raktim Pratihar

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

8)Arka Majumdar

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

9)Debmalya Sadhukhan

Address of Applicant :Department of Electronics and Instrumentation Engineering, Narula Institute of Technology, 81, Nilgunj Road, Agarpara Kolkata- 700109, West Bengal, India. -----

(57) Abstract :

The present invention relates to an automatic capsule filling device comprising, a base frame 1 with a primary and secondary layer 3,4 attached with a motorized hinges 5 with multiple vertical perforations 2, a tray 6 with multiple horizontal perforations 8 and further attached to the base frame 1 via hinge joint 7, a gripping unit 9 with a holder 10 attached to each of the horizontal perforations 8 of the tray 6 holds capsule and places them in vertical perforations 2, a two axis lead screw 13 mechanism with a pusher 11 attached at the base frame 1 to spread the medicine dispensed from a dispensing unit 14, an image capturing module 10 connected to the base frame 1 for detecting lumps, multiple needles 12 attached with the pusher 11 to stuff medicine in lower end 19 of the capsule and a suction unit 16 collects remaining medicine.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2022

(21) Application No.202231027748 A

(43) Publication Date : 10/06/2022

(54) Title of the invention : FENCE INSTALLATION DEVICE

(51) International classification :G06F0003030000, H04N0005225000, A47J0043040000, H03K0017955000, G05D0001000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Narula Insitute of Technology

Address of Applicant :81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Bidesh Roy

Address of Applicant :Department of Computer Application, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

2)Soumik Nandi

Address of Applicant :Department of Computer Application, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

3)Dr. Subhram Das

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

4)Subhasree Bhattacharjee

Address of Applicant :Assistant Professor, Department of Computer Application, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

5)Rupa Saha

Address of Applicant :Assistant Professor, Department of Computer Application, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

(57) Abstract :

A fence installation device comprises of a body 1 installed with motorized wheels 2 for maneuvering the body 1 as per user's demand provided by means of computing unit 3, an artificial intelligence image capturing module 4 mounted over the body 1 for capturing images of a fence sheet 5, a telescopic frame 6 configured with motorized discs 9 to fix on the sheet 5, a chamber 10 for storing poles 11, a telescopic pusher 14 for pushing the poles 11 into a motorized iris unit 15 fabricated on a conveyer 16, a drill unit 18 positioned at base of the disc 9 for creating holes at the location specified by the user, a capacitive proximity sensor 19 fitted over the frame 6 for determining the pole 11 material and accordingly actuating welding, nailing unit 20, 21 to join sheet 5 with the poles 11.

No. of Pages : 17 No. of Claims : 7

(51) International classification :B25J0005000000, B65B0013180000, B25J0015020000, B25J0015100000, B25J0015000000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Narula Insitute of Technology

Address of Applicant :81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

Name of Applicant : NA**Address of Applicant : NA**

(72)Name of Inventor :

1)Rituraj Saha

Address of Applicant :Department of Information Technology, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

2)Soumya Bhattacharyya

Address of Applicant :Assistant Professor, Department of Information Technology, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

3)Dr. Avishek Chakraborty

Address of Applicant :Assistant Professor, Department of Basic Science and Humanities, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

4)Tamasree Biswas

Address of Applicant :Assistant Professor, Department of Information Technology, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

5)Dr. Suchismita Maiti

Address of Applicant :Assistant Professor, Department of Information Technology, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

6)Dr. B K Medya

Address of Applicant :Professor, Department of Information Technology, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

7)Puspak Pain

Address of Applicant :Assistant Professor, Department of Electronics & Communication Engineering, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

--

8)Shyamapriya Chowdhury

Address of Applicant :Assistant Professor, Department of Information Technology, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

9)Dr. Shambhu Nath Saha

Address of Applicant :Associate Professor, Department of Information Technology, Narula Insitute of Technology, 81, Nilgunj Road, Agarpara Kolkata - 700 109, West Bengal, India. -----

(57) Abstract :

An automated crop bundling device comprising a cuboidal member 1 that includes motorized omnidirectional wheels 2 for providing movement to the member 1 over a ground surface, an artificial intelligence-based image capturing unit 3 for capturing and processing images of reaped crops, a display panel 5 for enabling a user to enter details regarding amount of crops that are to be bundled, a motorized roller 6 for unwrapping the rope, a robotic gripper 7 for gripping and translating the unwrapped rope from one end to another end of the sliding unit 8, a pair of robotic arms for gripping and placing the reaped crops within the member 1, a telescopic pusher 12 for compressing the placed crops to attain an adequate quantity of crop, a weight sensor 13 for detecting weight of placed crops, a pair of robotic arms for tying each end of the rope to bundle the crops.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231027827 A

(19) INDIA

(22) Date of filing of Application :14/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : LPG-OPERATED FUEL-EFFICIENT AND CLEAN POROUS RADIANT BURNER

(51) International classification	:F23D0014580000, F23C0013000000, F23C0006040000, F23C0099000000, F23D0014020000	(71)Name of Applicant : 1)Indian Institute of Technology Guwahati Address of Applicant :Amingaon, North Guwahati, Guwahati, Assam - 781039, India. Guwahati ----- 2)Tejal Burners India Private Limited Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor :
Filing Date	:01/01/1900	1)P. MUTHUKUMAR Address of Applicant :Professor, Mechanical Engineering, Qr. E-73, IIT Campus IIT Guwahati, Guwahati - 781039, Assam, India. Guwahati -----
(87) International Publication No	: NA	2)M. ARUN KUMAR Address of Applicant :Research Scholar, School of Energy Sciences and Engineering, D-259, Lohit Hostel, IIT Guwahati, Guwahati - 781039, Assam, India. Guwahati -----
(61) Patent of Addition to Application Number	:NA	3)V. R. NEELA Address of Applicant :Director, Tejal Burners India Pvt Ltd No.12, Peelamedu Industrial Estate, Thaneerpandal, Peelamedu, Coimbatore, Tamil Nadu - 641004, India. Coimbatore ----- --
Filing Date	:NA	-----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an apparatus (100) suitable for commercial catering and industrial applications, the apparatus includes a mixing pipe (116) having a venturi cup (112) adapted for natural air-entrainment and adapted to partially mix fuel with air. A burner casing (118) with extrusion of predefined inner diameter at the bottom section, in which the mixing pipe (116) is inserted, the partially mixed mixture is completely mixed in a mixing chamber (120). A perforated plate (122) accommodated in the burner casing (118) is adapted to preheat the fuel-air mixture. The perforated plate (122) having narrow holes provide uniform distribution of fuel-air mixture into a foam (124) such that combustion of the fuel-air mixture is ignited in the foam so as to form a radiative red-hot surface and blue flame above the foam, facilitating higher thermal efficiency, improved primary aeration and lower emissions of CO and NO_x.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231027828 A

(19) INDIA

(22) Date of filing of Application :14/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN ASSEMBLY TO TURN OFF CYLINDERS OF AN ENGINE TO REDUCE LOAD FROM A CRANKSHAFT

(51) International classification :F01L0001140000, F01L0013000000, F02B0061040000, A61F0013000000, F04B0053140000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CHOUDHURY, Samar

Address of Applicant :131, KCM Sarani, PO - Bhadrakali, Dist - Hooghly, West Bengal - 712232, India. Hooghly ----- -

2)KABASI, Satarupa

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)CHOUDHURY, Samar

Address of Applicant :131, KCM Sarani, PO - Bhadrakali, Dist - Hooghly, West Bengal - 712232, India. Hooghly -----

(57) Abstract :

An assembly to turn off one or more cylinders of an engine to reduce load from a crankshaft is disclosed. The assembly includes one or more valves of a pre-defined shape housed inside one or more corresponding cylinders of the engine. Each of the one or more valves comprises at least one hole at a pre-defined position in the corresponding at least one valve, and configured to reduce effect of negative pressure. The assembly also includes at least one actuator operatively coupled to the corresponding one or more valves. The at least one actuator is configured to operate the corresponding cylinders of the engine.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202231027927 A

(19) INDIA

(22) Date of filing of Application :15/05/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : System and process for Fluoride Reduction of RO-Reject Water of Aluminium Smelter

(51) International classification	:C02F0001463000, C02F0009000000, C02F0001440000, C02F0001461000, C02F0001280000	(71)Name of Applicant : 1)Chandra Shekhar Parida Address of Applicant :CB-6, Block 4,Cantonment Road Cuttack 753001,Odisha Cuttack -----
(86) International Application No	:PCT//	2)Ratnakar Pradhan
Filing Date	:01/01/1900	3)Mamata Padhy
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Chandra Shekhar Parida
Filing Date	:NA	Address of Applicant :CB-6, Block 4,Cantonment Road Cuttack 753001,Odisha Cuttack -----
		2)Ratnakar Pradhan
		Address of Applicant :Plot no: 244/2422/4184, Lane -9, Lingaraj Nagar, Old Town,Bhubaneswar 751002 Dist: Khorda, Odisha Bhubaneswar -----
		3)Mamata Padhy
		Address of Applicant :Plot no 43/1703, Pitamber Realm , Near IndraprashthaPhase-2,Pokhariput, Bhubaneswar 751020, Odisha Bhubaneswar -----

(57) Abstract :

The present invention discloses a system and process for continuous or online de-fluoridation of reverse osmosis (RO) reject water of aluminum smelter comprising, pretreatment, electro-coagulation and flocculation sequentially. It also provides configurations of electrodes and processes for electrolytic treatment of wastewater, which are especially adapted for wastewaters having high conductivities wherein the polarities of electrodes are reversed at periodic time intervals. Fig. 1

No. of Pages : 22 No. of Claims : 21

Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012038 A

(19) INDIA

(22) Date of filing of Application :20/03/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN UNIQUE BIO LIPID FRACTION FROM ORYZA SATIVA SEED BRAN OIL AND ITS INBUILT PHARMACEUTICAL BIO FUNCTIONAL POTENTIALITY

(51) International classification	:A61K0031355000, A61K0036899000, B60K0006387000, A61K0009060000, C11B0001100000	(71)Name of Applicant : 1)PROF (DR) N V SATHEESH MADHAV Address of Applicant :DIT FACULTY OF PHARMACY, VILL MAKKAWALA, DIT UNIVERSITY DEHRADUN UTTARAKHAND-248009, INDIA Uttarakhand India 2)MR SAMIR BHARGAVA
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)PROF (DR) N V SATHEESH MADHAV
(33) Name of priority country	:NA	2)MR SAMIR BHARGAVA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention explores an economic method for separation of bio lipid fractions of Oryza sativa seed bran oil by simplified optimized process. The unique physical, chemical and functional properties are explored by various scientific techniques and compared. Hence, different proportions of Cyclosporine loaded nanoemulsions were developed using isolated bio lipid and assessed for performance. The best proportion (FOC4) revealed the globule size ranging in sub-nano to nano range ie 100 - 300 nm, with a significant retardation in in-vitro release performance. The safety potentiality of bio lipid formulation was assessed in cell line (C6 — Glial cell line of rat origin) and found to be with IC50 as 95.91 %. Hence, the oil can serve as a vehicle, retardant for developing various pharmaceutical and biotechnological formulations.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023591 A

(19) INDIA

(22) Date of filing of Application :05/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : GERM SHIELD TREATMENT FACILITIES

(51) International classification	:G06Q0010060000, G06Q0010000000, H03D0007160000, H04M0001000000, G06F0021410000	(71)Name of Applicant : 1)Sandeep Aggarwal Address of Applicant :H.N. 1702, Pent House, Block B1, 16th Floor, world spa west, sector-30, gurugram Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sandeep Aggarwal
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040030 A

(19) INDIA

(22) Date of filing of Application :15/09/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESS FOR THE PURIFICATION OF BILASTINE

(51) International classification	:C07D0401040000, A61K0031454000, C07B0063000000, A61P0037080000, C08G0065300000	(71) Name of Applicant : 1)KIMIA BIOSCIENCES LIMITED Address of Applicant :Kimia Biosciences Limited (Formerly Known as Laurel Organics Limited) Manufacturing & R&D: Damdama Lake road, Bhondsi, Sohna Road, Gurugram-122102 (INDIA) Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Rijwan
(33) Name of priority country	:NA	2)Vinay Chaudhary
(86) International Application No	:NA	3)Rais Mansuri
Filing Date	:NA	4)Manjit Singh
(87) International Publication No	: NA	5)Mukesh Sharma
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for the purification of bilastine.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011040209 A

(19) INDIA

(22) Date of filing of Application :16/09/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESS FOR THE PREPARATION OF DELAFLOXACIN MEGLUMINE SALT

(51) International classification	:C07D0401140000, A61K0031470900, A61K0047260000, A61K0047180000, A61K0009000000	(71) Name of Applicant : 1)Kimia Biosciences Limited Address of Applicant :Kimia Biosciences Limited (Formerly Known as Laurel Organics Limited) Manufacturing & R&D: Damdama Lake road, Bhondsi, Sohna Road, Gurugram-122102 (INDIA) Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ajay Kumar
(33) Name of priority country	:NA	2)Manjit Singh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for the preparation of delafloxacin meglumine salt.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052106 A

(19) INDIA

(22) Date of filing of Application :30/11/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : NEEDLE FOR INTRAUTERINE BLOOD TRANSFUSION (IUT)

(51) International classification	:A61B0008080000, H04L0029060000, A61B0005000000, A61B000900000000, A61B0017420000	(71)Name of Applicant : 1)ALL INDIA INSTITUTE OF MEDICAL SCIENCES RISHIKESH Address of Applicant :Rishikesh, UTTARAKHAN, INDIA- 249203 Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DR. LATIKA CHAWLA
(33) Name of priority country	:NA	2)DR. MADHUR UNIYAL
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present invention provides a steel needle (1) with plastic hub(2) with steel stylet(3) for intrauterine blood transfusion (IUT) procedure. The needle has quincke type echogenic tip (4). Length of the needle (1) (12cm, 15cm) would be longer than the conventionally available spinal needles to provide for better and easy access to cord insertion in patients with posterior placenta, polyhydramnios and obesity. The length of the hub (2) would also be more to minimize micro-movement of the needle at the operator end so as to avoid its dislodgement from inside the fetal umbilical cord during the procedure this reducing complications. The needle is intended to make Intrauterine Fetal Blood Transfusions easier and safer.

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052691 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND SYSTEM FOR REAL-TIME OBJECT DETECTION

(51) International classification	:G06K0009000000, G06T0001200000, H02J0050600000, G06K0009620000, H04N0021643000	(71)Name of Applicant : 1)MANDO CORPORATION Address of Applicant :32 Hamanho-gil Poseung-eup, Pyeongtaek-si Gyeonggi-do Republic of Korea 17962 Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Vipin Sharma
(33) Name of priority country	:NA	2)Akshat Agrawal
(86) International Application No	:NA	3)Jitesh Kumar singh
Filing Date	:NA	4)Arpit Awasthi
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a method for real-time object detection, the method comprising: capturing an image in vicinity of a vehicle; feeding the captured image to a deep fully convolution neural network; extracting one or more relevant features from the captured image; classifying the extracted features using one or more branches to identify different size of objects; predicting objects present in the image based on a predetermined confidence threshold; and marking the predicted objects in the image.

No. of Pages : 57 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052696 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND SYSTEM FOR REAL-TIME CONTINUOUS LANE MAPPING AND CLASSIFICATION

(51) International classification	:H04N0009806000, G11B0027036000, G11B0027034000, H04N0009804000, G06F0016280000	(71) Name of Applicant : 1)Mando Mobility Solutions Corporation Address of Applicant :32, Hamanho-gil, Poseung-eup, Pyeongtaeksi, Gyeonggido, 17962, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Arpit Awasthi
(33) Name of priority country	:NA	2)Akshat Agrawal
(86) International Application No	:NA	3)Kapil Yadav
Filing Date	:NA	4)Jitesh Kumar singh
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses systems and method for real-time continuous lane mapping. The technique comprising receiving an input image of a road captured by an image sensor mounted on a vehicle; extracting one or more feature vectors from the image; extracting lane mark coefficients and lane type features from the one or more extracted feature vectors; detecting a lane mark by computing the coefficients and applying a pre-learned value; comparing the lane type relating to right and/or left lane markings with a predefined lane class; classifying the left and/or right lane markings based on the comparison and applying a pre-learned value; and generating a lane map along with the lane markings. The step of the lane detection and the classification is performed simultaneously based on the one or more extracted feature vectors.

No. of Pages : 35 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052704 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYSTEM TO GENERATE A PHOTOREALISTIC VIDEO IN A VIRTUAL WORLD AND A METHOD THEREOF

(51) International classification	:H04N0021422300, G06T0015060000, G06T0015500000, G06T0013400000, G09G0003000000	(71)Name of Applicant : 1)HIKE PRIVATE LIMITED Address of Applicant :Bharti Crescent, 1 Nelson Mandela Road Vasant Kunj, Phase - II New Delhi India 110070 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mujtaba Hasan
(32) Priority Date	:NA	2)Ankur Narang
(33) Name of priority country	:NA	3)Kavin Bharti Mittal
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present disclosure relates to a technique of generating a photorealistic video in a virtual world. The technique includes identifying and marking boundaries and coordinates of realworld location using one or more sensors of a user device; capturing pictures of said realworld location with marked boundaries using one or more camera of the user device; mapping the boundaries and coordinates of the captures real-world location into boundaries and coordinates of the virtual world and specifying one or more camera positions in the virtual world, based on said mapping; obtaining user's trajectories and movements from shared experience of users in the virtual world through the one or more sensors of the user device; rendering the user's trajectories and movements in real-time by overlaying the user's trajectories and movements onto the one or more captures pictures of said real-world scene; and rendering a virtual scene for display on the user device.

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052722 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : AI BASED CRASH SAFETY SYSTEM AND METHOD THEREOF

(51) International classification	:G08G0001160000, B60W0050000000, G06N0020000000, B60R0021013600, G01S0013580000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Mr. Parthiv Shah 2)Mr. Vikram Balisavira
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a system and method for predicting impact energies of a crash and providing optimum safety. A first vehicle is equipped with an image capturing unit 202 that can obtain images of a second vehicle in vicinity of the first vehicle. The obtained images can be analysed and processed by a processing unit 204 in communication with an AI-based learning engine 206, and correspondingly vehicle specifications of the second vehicle can be determined. Simultaneously, relative velocity of the second vehicle can also be acquired. An impacting energy is calculated based on the determined vehicle specifications and acquired relative velocity, and accordingly safety providing elements 208 can be activated and height of the first vehicle can be manoeuvred to minimize impact of crash and provide optimum safety.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052723 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : NAIL CLIPPING DEVICE

(51) International classification	:A61B0005000000, G06F0040300000, G16H0050200000, A61B0005045200, G01D0018000000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)KAUR, Ravneet
(32) Priority Date	:NA	2)SINGH, Ramandeep
(33) Name of priority country	:NA	3)GERA, Ashish
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a nail clipping device (100) including a nail cutter (102), a set of sensors (104) configured with the nail cutter (102), where the set of sensors (104) are configured to sense distance between one or more nails and the nail cutter (102) and correspondingly generate a first set of signals. A slider (106) movably coupled to the nail cutter (102), a pump (108) operatively coupled to the slider (106), and a controller (110) operatively coupled to the pump (106), and the set of sensors (104). The controller (110) is configured to extract calculated distance from the first set of signals, compare the calculated distance with a pre-stored distance limit, and generate a set of actuation signals, when the calculated distance is within the pre-stored distance limit or equal to the pre-stored distance limit, where the set of actuation signals enables the pump (108) to move the slider (106) and facilitates clipping the one or more nails.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052724 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : PORTABLE UV-C DISINFECTION DEVICE

(51) International classification	:A61L0002100000, A61L0002240000, G01J0001420000, A61L0009200000, B25H0003000000	(71)Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mrs. Chanchal Gautam
(32) Priority Date	:NA	2)Mr. Yogesh Dharmadhikari
(33) Name of priority country	:NA	3)Mr. Senthikumar Sundararaju
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A portable disinfection device 100 for sanitizing articles is disclosed, comprising a box 102 having a cavity 104 to accommodate the articles. A front wall 106-1 and a top wall 108 of the box are configured to move between an open position to allow access of the cavity 104, and a closed position to restrain access of the cavity 104. The disinfection device 100 further includes an UV-C lamp configured inside the box to emit UV-C radiation for sanitizing the articles based on received input signals by a timer unit, an indication light to indicate sanitizing operation, and switches comprising a first switch 120 and a second switch 122 that are configured such that the UV-C lamp 202 is deactivated when any of the front wall 106-1 and the top wall 108 is moved to the opened position. The disinfection device 100 can be used in vehicles and at home.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052729 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : A RECONFIGURABLE WHEEL

(51) International classification	:B62M0009080000, B60B0019000000, B62D0005040000, H04M0001020000, F23R0003280000	(71)Name of Applicant : 1)Indian Institute of Technology Delhi Address of Applicant :Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)KHATAIT, Jitendra Prasad
(32) Priority Date	:NA	2)YADAV, Harsh
(33) Name of priority country	:NA	3)KUMAR, Rajesh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A reconfigurable wheel with variable diameter is disclosed. The reconfigurable wheel includes a first member and a second member adapted to be rotated in one of a clockwise direction and an anti-clockwise direction. The reconfigurable wheel includes a plurality of deformable elements having a first ground engaging member coupled to the circumference of the first member. The first ground engaging member is adapted to be moved in a radial direction with respect to the first member. Each of the plurality of deformable elements includes a second ground engaging member coupled to the circumference of the second member and adapted to be moved in a radial direction with respect to the second member. The first ground engaging member and the second ground engaging member move in the radial direction when the first member and the second member are rotated in one of the clockwise direction and the counter-clockwise direction to vary a diameter of the reconfigurable wheel.

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052735 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : NOVEL ACTIVATION FUNCTION WITH HARDWARE REALIZATION FOR RECURRENT NEUROMORPHIC NETWORKS

(51) International classification	:G06N0003040000, G06N0003063000, G02F0001010000, H03K0005080000, H01L0029205000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi – 110 016, (India) Delhi India (72)Name of Inventor : 1)SURI, Manan 2)SHABAN, Ahmed
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This application provides a circuit and a method for realization of an artificial neuron or an activation function in a circuit. The circuit comprises of an integrator configured to integrate input spike signals received at the input terminal to produce an output signal of voltage V_{mem} , a comparator configured to generate an output spike voltage to fire the circuit, when the V_{mem} is greater than an adaptive threshold voltage V_{th} provided by a threshold modulator circuit, a pulse generator coupled to the comparator configured to generate a sequence of control pulse signals which activate SET and RESET paths in the threshold modulator circuit, in response to the output spike received from the comparator and the threshold modulator circuit comprising a plurality of transistors and at least one resistive memory device, configured to generate an adaptive threshold voltage by tuning the parameters of the threshold modulator circuit.

No. of Pages : 35 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052764 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : INTELLIGENT BED SYSTEM

(51) International classification	:H04L0029080000, A47D0015000000, B62J0099000000, A61G0011000000, A61B0005110000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg, SH 57, Mirzapur Pole, Dist – Saharanpur, Uttar Pradesh-247121, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Mazhar Afzal
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An intelligent bed system, comprising a body 1 for providing comfort to an infant while sleeping, multiple sensors 2 mapped to sense load/force acting on the base while movement of infant within the body 1, a controller connected with the sensors 2 for processing the signal to decode exact position of the infant while sleeping, a flap 3 in continuation with a rolling track 4, wherein the flap 3 moves over the track 4 according to decoded position for restricting falling of the infant out of the body 1, a camera inbuilt with a microphone, wherein the camera captures real-time images of the infant and the microphone records audio of the infant and a communication unit in linkage with a computing device, wherein the unit sends the captured images and audio to the device that is accessed by user(s) for monitoring the activities of the infant.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052765 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : MODULAR CLOTHES DRYING DEVICE

(51) International classification	:D06F0058200000, D06F0057120000, F03D0007020000, D06F0058100000, F02B0003060000	(71) Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg, SH 57, Mirzapur Pole, Dist - Saharanpur, U.P. - 247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Sachin Kamboj
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A modular clothes drying device, comprising a telescopic assembly 1 having two poles in vertical alignment positioned on a surface, a primary cylindrical rod 2 having multiple clips 3 affixed on the assembly 1, said clips grip clothes hanged on the rod 2 to prevent said clothes from falling, a pair of sensors 4 installed on the telescopic assembly 1 to detect varying weather conditions, a controller connected with the sensors 4 to generate a signal for enabling rotational movement of the clips to roll the clothes on the rod 2, a secondary cylindrical rod 5 having a pair of flexible layers 6 to enclose the clothes that are rolled over the primary rod 3 to prevent dampening of the clothes and another motor is actuated to retract the assembly 1 to a specific level to prevent the clothes from getting blown during high speed wind.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052766 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : HEALTH MANAGMENT SYSTEM

(51) International classification	:A61B0005000000, G08B0021240000, G07C0005080000, A61B0005040200, A61B0005010000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg, SH 57, Mirzapur Pole, Dist - Saharanpur, U.P. - 247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Udeep Chawla
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a health management system comprising, multiple face mask(s) 5 made up of cupronickel film 5 for preventing user(s) from infections, plurality of sensors 1, 2, 3 and 4 embedded into mask(s) 5 for health monitoring of user(s), a wifi module 6 integrated into the mask(s) 5 for communicating data obtained from sensors to an computing unit provided to user(s) wherein said unit provides real time monitoring of acquired data and notifies the user(s) upon detecting abnormal figures identified from the sensors, a GPS module embedded into each mask(s) 5 to notify people in contact with infected person by detecting location, colour changing film fabricated with mask(s) 5 to indicate infected and susceptible person with red and orange colour respectively.

No. of Pages : 12 No. of Claims : 10

(54) Title of the invention : LIQUID EXTRACTION DEVICE

(51) International classification	:B65D0081320000, F04C0018020000, B29C0065300000, H01M0006420000, A23G0004180000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg, SH 57, Mirzapur Pole, Dist - Saharanpur, U.P. - 247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Ajit Kumar Pandey
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A liquid extraction device, comprising a casing 1 for accommodating a packet containing liquid, a pair of rollers 2 affixed to a top part 3 of the casing 1, wherein the rollers 2 hold the packet from an end, at least two rods 4 in continuation with a blade 5 attached to a bottom part 6 of the casing 1, wherein the rods 4 grab the packet from another end to facilitate cutting of a desired portion of the packet by the blade 5 to dispense liquid, a motor linked with the rollers 2, wherein the motor actuates the rollers 2 to rotate in a defined direction that in return squeezes the packet in order to dispense the liquid completely out of the packet upon pressing of a button 7 and a heating element 8 incorporated within the casing 1 for preventing coagulation of liquid present inside the packet.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052768 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : FARM MANAGEMENT SYSTEM

(51) International classification	:G09B0019000000, G06Q0010080000, G06K0009200000, A61B0090980000, H04M0011000000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg (State Highway 57), Mirzapur Pole, Dist – Saharanpur, U.P. – 247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Moinuddin
(33) Name of priority country	:NA	2)Dr. Mohd Majid Jamali
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a farm management system, comprising of multiple primary sensors to detect type of pests in a farming area(s), a microcontroller connected to the primary sensors that processes data received from the sensors to determine pesticides, a communication module attached to the microcontroller to transmit an information signal related to the pesticides to a user, a relay coupled to the microcontroller that is actuated after a pre-determined time interval to spray the pesticides, multiple secondary sensors to retrieve a set of values related to soil specifications) and a water pump actuated by the microcontroller upon comparing the values with pre-stored values to supply required amount of water for appropriate decomposition of the pesticide(s) in the soil to kill the pests.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052769 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANTI-ACNE ADHESIVE COMPOSITION AND METHOD FOR PREPARATION THEREOF

(51) International classification	:C12M0001220000, A61K0047340000, B01J0037020000, C09J0009000000, C08L0081060000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg, SH 57, Mirzapur Pole, Dist - Saharanpur, U.P. - 247121, India Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Udeep Chawla
(33) Name of priority country	:NA	2)Dr. Dinesh Sharma
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The anti-acne adhesive composition comprises of a) a bio-degradable polymer in the range of 50%-70% w/w, b) an antioxidant herb in the range of 20%-40% w/w, and c) an anti-bacterial agent in the range of 10%-30% w/w, d) water in the range of 90%-99%w/w. A method for preparation of the anti-acne adhesive composition comprising the steps of adding bio-degradable polymer in water to obtain a polymer solution, adding the anti-oxidant herb in the polymer solution followed by addition of the anti-bacterial agent to obtain a drug solution, stirring the drug solution for a period of 20-40 min to obtain a fine mixture, and pouring the mixture on a petri dish followed by drying at a temperature in the range of 50 -70 for 3-5 hrs to obtain the adhesive composition.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052770 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : LAWN MAINTENANCE DEVICE

(51) International classification	:A01D0101000000, A01D0034000000, A01G0003060000, A01D0034840000, A61B0018000000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg (State Highway 57), Mirzapur Pole, Dist – Saharanpur, U.P. – 247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Rayees Afzal
(33) Name of priority country	:NA	2)Gita Kumari
(86) International Application No	:NA	3)Belal Ahmad
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A lawn maintenance device, comprising a housing 3 employed with a handle 2 that is held by a user while cutting grass and digging soil, multiple blades 4 embodied within the housing 3, wherein the centre of the blades 4 is equipped with the ball and socket joints 5 for switching mode of the blades 4 in between a grass cutting mode and digging mode, a set of motors for enabling rotation of the blades 4 while the grass cutting mode for slicing the grass up to a user desired level, multiple vertical lead screw arrangements 7 associated with each of the blades 4 vertically in order to enable vertical motion of each blades 4 while digging soil and a horizontal lead screw arrangement 8 installed with the housing 3 for enabling horizontal movement of the blades 4 for performing the cutting and digging operations in a confined space.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052771 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : AUTOMATED WICKET EMPLACEMENT SYSTEM

(51) International classification	:B25J0009160000, A61B0034200000, A01J0005017000, H04N0007180000, A61B0090500000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg (State Highway 57), Mirzapur Pole, Dist – Saharanpur, U.P. – 247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Arif Ali Wani
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an automated wicket emplacement system comprising, a robotic arm 1 engraved into the ground at the rear side of a wicket that upon detecting disturbance in wickets, pops out to install the stumps and bails back on the desired location, a sensor installed on the wicket generates command for actuation of the robotic arm 1 plurality of controller motors 2 integrated into the robotic arm 1 to provide 360 degree movement to the robotic arms 1, a camera 3 mounted at top portion of the robotic arm 1 that detects presence of stumps and bails within a threshold radius in order to guide the robotic arm 1 to pick and mount the stumps back to the default position, a microcontroller 4 coupled to the camera that identifies the stumps and bails individually and directs the robotic arm 1 to first mount the stumps followed by mounting bails over the stumps.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052772 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : PORTABLE VEHICLE WASHING DEVICE

(51) International classification	:B60S0003040000, A46B0011060000, A47L0011400000, E01H0001050000, A46B0005000000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg, SH 57, Mirzapur Pole, Dist - Saharanpur, U.P. - 247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)S.Zaphar
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a portable vehicle washing device comprising a platform 1 with multiple segments, wherein segments extend under the vehicle via hydraulic cylinders 7, cylindrical brush drums 2 with multiple motors 3 mounted over platform 1 to provide an axis rotary motion to the drums 2 in order to clean dust from base of vehicle, pneumatic cylinders attached with cylindrical brush drums 2 to provide oscillating motion to drums 2 in order to cover maximum area below vehicle, height of cylindrical brush drums 2 is adjustable according to the ground clearance of vehicle via a switch controlled by a user, a channel of fluid filled tubes 4 with integrated nozzles 6 mounted over the platform 1 wherein nozzles 6 eject pressurized fluid in order to clean the vehicle, a reservoir 5 connected to channel of tubes 4 via a pipe in order to fulfill the fluid supply.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052773 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : WHEEL LOCKING ANTI-THEFT DEVICE

(51) International classification	:B60R0025090000, B62H0005140000, A61M0021000000, A61M0037000000, G08B0013240000	(71)Name of Applicant : 1)Glocal University Address of Applicant :Delhi-Yamunotri Marg, SH 57, Mirzapur Pole, Dist – Saharanpur, Uttar Pradesh-247121, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sachin Kamboj
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A wheel locking anti-theft device, comprising a body 1 developed in a manner to be detachably mounted on axle(s) 2 of a vehicle, wherein the axle(s) 2 connect to wheels 3 of the vehicle, a sensor 4 installed on the body 1 for producing a relative signal upon detection of a pressure force applied on the body 1, a microcontroller connected with the sensor 4 for processing the signal to generate a command in case the detected force crosses a threshold value, a pair of telescopic rods 5 having multiple holes 6 configured within the body 1, wherein the rods 5 extend to pass through spokes of the wheels 3 and a pair of locking pins 7 configured within the central hub of the wheels 3, wherein the pins 7 move to engage with the holes 6 for restricting the movement of the wheels 3.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052804 A

(19) INDIA

(22) Date of filing of Application :03/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : CRISPR-CAS VECTOR SYSTEM FOR ALTERING GENE EXPRESSION IN RICE, METHODS AND PLANTS THEREOF

(51) International classification	:C12N0009220000, A01H0005120000, C12N0015113000, A61K0031165000, C12N0015900000	(71) Name of Applicant : 1)INTERNATIONAL CENTRE FOR GENETIC ENGINEERING AND BIOTECHNOLOGY (ICGEB) Address of Applicant :Asaf Ali Marg, New Delhi, Delhi- 110067, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)V. MOHAN MURALI ACHARY
(33) Name of priority country	:NA	2)MALIREDDY K. REDDY
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides CRISPR-Cas9 vector system, including a novel synthetic Cas9 protein, which is optimized for expression and target specificity in rice, thus allowing for more efficient targeting and multiplexing of target sequences, while minimizing off-target effects. Also provided in the present invention are methods of generating transgenic plants with desired agronomic traits obtained by the CRISPR-Cas9 vector system of the present invention, and novel synthetic fragments useful for detection of edited transgenic plants.

No. of Pages : 55 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052850 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : LOCKING DEVICE OF VEHICLE

(51) International classification	:B62K0019460000, E05B0029000000, E05B0015160000, B62H0005200000, B60N0003080000	(71)Name of Applicant : 1)Hero MotoCorp Limited Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)TRIPATHI, Sumit Mani
(33) Name of priority country	:NA	2)GUPTA, Prateek
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A vehicle (100) is provided. The vehicle (100) comprises a body frame (122), a body cover (120) and an article storage structure (150). The article storage structure (150) comprises an article storage portion (152), a lid member (154) having a latch member (155), a locking device (180) configured to receive the latch member (155) to releasably lock the lid member (154) with the article storage portion (152). The locking device (180) comprises a cylinder casing (182) having a latch frame (183), a lock cap (184), a lock rotary drum (186) having a cam shaft (192), a cam-pin (185) and a locking lever (190). The locking lever (190) is resiliently movable between a normal position (N) and a retracted position (R) under biasing force of a spring member (188) disposed between the lock rotary drum (186) and the locking lever (190).

No. of Pages : 27 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052851 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : LIGHTING SYSTEM OF VEHICLE

(51) International classification	:B60Q0001440000, H05B0047155000, H05B0047190000, B60Q0001000000, A01G0009260000	(71)Name of Applicant : 1)Hero MotoCorp Limited Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase –II, New Delhi Delhi India 110070 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)TURSENIA, Vikas
(33) Name of priority country	:NA	2)UNIYAL, Anil
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present invention relate to a vehicle (100), the vehicle (100) comprises a lighting system (200) for optimally controlling a plurality of lights (210, 220, 230) in order to achieve desired functionality of tail lap, wipers and brake lamp. The lighting system (200) comprises comprising a control unit (270) that considers state of the vehicle (100), and a state of the plurality of switches (240, 250, 260), and accordingly optimally controls the plurality of lights (210, 220, 230).

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052852 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : LIGHTING SYSTEM OF VEHICLE

(51) International classification	:B60Q0001440000, B62J0006040000, B60Q0001000000, H05B0047155000, B60Q0001260000	(71)Name of Applicant : 1)Hero MotoCorp Limited Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase –II, New Delhi Delhi India 110070 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)TURSENIA, Vikas
(33) Name of priority country	:NA	2)UNIYAL, Anil
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments of the present invention relate to a vehicle (100), the vehicle (100) comprises a lighting system (200) for optimally controlling a plurality of lights (210, 220, 230) in order to achieve desired functionality of tail lamp, wipers and brake lamp. The lighting system (200) comprises comprising a control unit (270) that considers state of the vehicle (100), and a state of the plurality of switches (240, 250, 260), and accordingly optimally controls the plurality of lights (210, 220, 230).

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052906 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESS FOR THE FAST FORMATION OF SOLID ELECTROLYTE INTERPHASE LAYER ON THE ANODE SURFACE IN LITHIUM-ION BATTERY

(51) International classification	:H01M0010052500, H01M0010056700, H01M0010440000, H02J0007000000, H01M0010058000	(71)Name of Applicant : 1)International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) Address of Applicant :Plot No. 102, Institutional Area, Sector 44, Gurgaon, Haryana, INDIA 122003 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Rikka Vallabha Rao
(33) Name of priority country	:NA	2)Sahu Sumit Ranjan
(86) International Application No	:NA	3)Prakash Raju
Filing Date	:NA	4)Gopalan Raghavan
(87) International Publication No	: NA	5)Sundararajan Govindan
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a process for the fast formation of solid electrolyte interphase layer (SEI) on the anode surface in lithium-ion battery. It is comprising of: SEI nucleation process-I consisting of charging the cell 02 in two charging steps to allow the uniform nucleation of SEI film from the solvents on the anode surface in a sequential order; SEI growth process-II consisting of charging the cell to allow the growth of the SEI film on the surface of the anode and SEI stabilization process-III consisting of multiple charge-discharge cycles, corresponding to 100% state-of-charge of the cell which is further discharged corresponding to the 80% state-of-charge of the cell and continue the charging and discharging the cell until AhD/AhC is greater than or equal to 99% completing the formation of the SEI film on the anode 04, which reduces the SEI film formation time by more than 75% as compared to the conventional formation process.

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052943 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : HORTICULTURAL PRODUCTS NUTRITION ANALYSIS SYSTEM

(51) International classification	:H04N0007180000, A61N0005060000, G01N0021840000, G06K0007140000, A01G0007040000	(71)Name of Applicant : 1)Jaipur National University Address of Applicant :Jaipur-Agra Bypass, near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Jameel Ahmed Qurashi
(33) Name of priority country	:NA	2)Dr Harvir Singh
(86) International Application No	:NA	3)Dr Blessy Thankachan
Filing Date	:NA	4)Dr Sonu Mittal
(87) International Publication No	: NA	5)Dr. Irshad Ahmad Mir
(61) Patent of Addition to Application Number	:NA	6)Kareena Kumari
Filing Date	:NA	7)Anu Faujdar
(62) Divisional to Application Number	:NA	8)Dipika Gupta
Filing Date	:NA	

(57) Abstract :

The present invention relates to a horticultural products nutrition analysis system, comprising, a body 1 associated with the system having multiple storage slots 2 that provides a unique identity number to each slot 2 for storing horticultural products, multiple imaging modules fabricated within the body 1 and paired with a controller to emit infrared rays over products placed over slots 2 and analyses reflected spectrum to determine real time nutritional value of products, a computing unit coupled with the imaging modules compares nutritional value fetched from the imaging module with standard nutritional values that are pre-stored within the unit to determine quality of horticultural products and provide the information to user through an led display unit 8, and vending unit integrated within body coupled with an input panel which enables user to choose the horticultural product, upon successful selection the product which is delivered to user via a output port.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011052944 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : ONLINE FURNITURE SHOPPING SYSTEM

(51) International classification	:G06Q0030060000, H04M0003510000, G05B0019409700, G06F0001160000, A47C0031000000	(71)Name of Applicant : 1)Jaipur National University Address of Applicant :Jaipur-Agra Bypass, near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Vishnu Sharma
(33) Name of priority country	:NA	2)Dr. Jameel Ahmed Qurashi
(86) International Application No	:NA	3)Dr Harvir Singh
Filing Date	:NA	4)Dr Blessy Thankachan
(87) International Publication No	: NA	5)Nishant Jangid
(61) Patent of Addition to Application Number	:NA	6)Rishabh Gadiya
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an online furniture shopping system comprises of, a first input unit installed over a computer platform over which a primary user gives a set of parameters along with dimensions of room for customizing furniture, a second unit installed over the computer platform accessed by a secondary user which upon procuring the parameters given by the first user proceeds for getting approval by a concerned authority and allocates a worker to scrutinize manufacturing process of said furniture, a processor integrated with the computer platform and linked with database which upon receiving examined information from the worker, generates quotations over first input unit on basis of which the primary user places order for manufacturing the furniture.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053005 A

(19) INDIA

(22) Date of filing of Application :05/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING A COMPUTING DEVICE

(51) International classification	:H04L0029060000, H04W0004020000, H04W0004800000, H04W0004021000, G06Q0030020000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SRIVASTAVA, Prateek
(32) Priority Date	:NA	2)SANDHU, Jasminder Kaur
(33) Name of priority country	:NA	3)PUNDIR, Meena
(86) International Application No	:NA	4)GOYAL, Deepam
Filing Date	:NA	5)BEDYAL, Ankush Kumar
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

System and method are provided for monitoring a first computing device. According to the method, a set of attributes pertaining to location of the first computing device and a second computing device associated with a user are received. The second computing device then gets associated with one of the plurality of nodes based on the location of the second computing device. Each of the plurality of nodes is associated with a corresponding threshold distance between the first computing device and second computing device associated with the user. Upon association of the second computing device with one of the plurality of nodes, it is determined whether the first computing device is within a threshold distance corresponding to the associated node from the second computing device. An alert is transmitted to the user when the first computing device is not within the threshold distance.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053006 A

(19) INDIA

(22) Date of filing of Application :05/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : A KNEADING METHOD OF PREPARING A SOLID DISPERSION COMPOSITION OF LAFUTIDINE

(51) International classification	:A61K0009200000, A61K0009140000, A61K0009160000, A61K0047340000, C09D0011340000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SINGH, Sukhbir
(32) Priority Date	:NA	2)ARORA, Sandeep
(33) Name of priority country	:NA	3)SHARMA, Neelam
(86) International Application No	:NA	4)SINGH, Supriya Kumari
Filing Date	:NA	5)KANOJIA, Neha
(87) International Publication No	: NA	6)GREWAL, Ajmer Singh
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates generally to pharmaceuticals. More specifically, the disclosure is directed to a kneading method of preparing solid dispersion compositions comprising insoluble drug Lafutidine along with amorphous polymer- PVP-30 and emulsifying polymers- Poloxamer 407 and Gelucire 50/13. Said solid dispersion composition prepared by kneading method possesses high solubility in water in comparison to pure drug – Lafutidine

No. of Pages : 24 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053008 A

(19) INDIA

(22) Date of filing of Application :05/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : ATTENDANCE MARKING SYSTEM

(51) International classification	:G05D0023190000, A61L0002000000, G05D0023130000, F24F0011300000, H02J0003140000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SRIVASTAV, Arun Lal
(32) Priority Date	:NA	2)PRASHAR, Shivendu
(33) Name of priority country	:NA	3)SINGH, Sartajvir
(86) International Application No	:NA	4)SOOD, Vishakha
Filing Date	:NA	5)KAUR, Ravneet
(87) International Publication No	: NA	6)ARORA, Bir Inder Singh
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to an attendance marking system (100) including a first set of sensors (102) configured to sense one or more entities , an image sensor (104) configured to capture one or more images of the one or more entities, a temperature sensor (104) to sense temperature and a third set of sensors (108) configured to sense retinal parameters and a controller (112) operatively coupled to the first set of sensors (102), the image sensor (104), the second set of sensors (106), and the third set of sensors (108). The controller (112) is configured to match the captured one or more images with pre-stored images, activate the temperature sensor, compare temperature value with pre-determined temperature limit and enables marking attendance with or without temperature warning, activate the third set of sensors (108) like iris sensor when the captured one or more images does not match with the pre-stored images and repeats the temperature comparison and marking the attendance.

No. of Pages : 42 No. of Claims : 10

(54) Title of the invention : DYNAMIC MULTI-INSTANCE DISPLAY SIGNAGE

(51) International classification	:G06K0009620000, B60K0035000000, G06K0009000000, G06F0003048800, G06F0003010000	(71)Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul - 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Krishna Prasad Bhat
(33) Name of priority country	:NA	2)Deepthi John
(86) International Application No	:NA	3)Sumit Arora
Filing Date	:NA	4)Rajesh Gopu Iyyana Pillai Vasanthee
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated method for multi-instance display by a multi-signage system is provided. The automated method includes detecting presence of one or more users in proximity of a display screen and prompting the detected one or more users to interact with multi-instances of the multi-signage system via the display screen. Further, capturing an input from each user and mapping the captured input with each user that initiated the interaction by employing an image classification technique. Next, identifying an event associated with the input captured from each user by employing an artificial intelligence model and generating an instance for each user based on the identified event and predefined contextual information associated with the instance by employing the artificial intelligence model. Furthermore, displaying each of the generated instances on the display screen by a projector, wherein a first displayed instance is positioned away at a predefined distance from the second displayed instance.

No. of Pages : 46 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053037 A

(19) INDIA

(22) Date of filing of Application :05/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : HUMAN-ASSISTING ROBOT

(51) International classification	:H04N0005232000, A61B0005110000, G05D0001020000, B25J0011000000, G16H0040200000	(71)Name of Applicant : 1)National Institute of Technology, Kurukshetra Address of Applicant :National Institute of Technology Kurukshetra, Kurukshetra - 136119, Haryana, India Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)KUMAR, Santosh
(32) Priority Date	:NA	2)MAHAJAN, Pulkit
(33) Name of priority country	:NA	3)AGARWAL, Akshay
(86) International Application No	:NA	4)THAKRAN, Ajay
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a human-assisting robot (100) including an operating switch (102) adapted to receive user input indicative of activation of the human-assisting robot (100), a camera (104) adapted to capture a frame of a user present in a predefined range, once the human-assisting robot (100) is activated, and a controller (106) in communication with the camera. The controller (106) is adapted to compare the captured frame with frames of registered users and identify whether the captured frame belongs to a registered user, based on the comparison. The robot (100) includes a sensor assembly (108) in communication with the controller (106) and adapted to detect a movement of the user, when the user is identified to be the registered user. The robot (100) includes a motor assembly (110) in communication with the controller (106) and the sensor assembly (108) and adapted to operate wheels such that the human-assisting robot (100) follows the user, based on the detected movement.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053052 A

(19) INDIA

(22) Date of filing of Application :05/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND SYSTEM FOR REAL-TIME RISK ASSESSMENT OF MUSCULOSKELETAL DISORDERS

(51) International classification	:A61B0005000000, A61B0005110000, A61B0017000000, G06K0009000000, G06Q0010060000	(71)Name of Applicant : 1)Dr B R Ambedkar National Institute of Technology Jalandhar Address of Applicant :G.T. Road, Amritsar Bypass Jalandhar Punjab India Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Lakhwinder Pal Singh
(33) Name of priority country	:NA	2)Mr. Praveen Kumar
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and a system (100) or real-time risk assessment of musculoskeletal disorders is disclosed. The method includes obtaining, by a collection unit (102), a postural data of a subject from a workspace and receiving, by a retrieval unit (104), the postural data in form of a camera space point and mapping the camera space point to a depth space point and converting the depth space point to a cartesian form by storing the depth space point to a point data and scaling the point data and transforming the scaled data to plot as body joints. The method includes extracting, by a processing unit (106), body joints and defining corresponding body vectors to accommodate information required to analyze the work exposure and determine level of risk associated and determining, by the processing unit (106), angles of a whole body of the subject by dividing the whole body in auxiliary planes and the angles for different body segments by projecting concerned vector and reference vector on to a recommended body plane. The method includes assessing, by an analyzer (108), the whole body of the subject by dividing the whole body into sections and segments to determine a score.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : U-TURN SIGNALLING SYSTEM IN VEHICLES

(51) International classification	:G08G0001160000, E01F0015040000, B60Q0001500000, G06Q0010060000, A61K0031170000	(71)Name of Applicant : 1)Sunil Kumar Address of Applicant :Flat B-2, U/G Flr, 149/2, Neelkanth Appts., Export Enclave, Nai Basti, Devli, New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Sunil Kumar
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Alert today - Alive tomorrow. This is the first rule of safety. Road safety is a global concern which if ignored claims more lives than a pandemic. In 2018, 1.35 million deaths were reported worldwide. India is at the top spot when it comes to road accidents that caused a whopping 1.5 lac deaths and 4.5 lac injuries in 2019 (this figure does not include small unreported accidents). Overspeeding and wrong lane driving are the major causes of road accident (around 73%) related deaths in India. It is indeed a matter of great concern that despite the continuing efforts of the Government in this regard they have not been able to register significant progress on this front. It has been observed that people use hand gestures for taking a U-turn which most of the time is invisible to other drivers and pedestrian in the front and back leading to collision, major accidents and even death. Even those wanting to take U-turn at a signal stand in wrong lanes causing confusion and traffic jams that adds to pollution and fuel wastage. The situation is further aggravated by the increasing number of vehicles every year. Vehicular engineering is one of the multiple initiatives by Ministry of road transport and highways, Govt. of India, which has been in focus to mitigate road accidents. But surprisingly no step has been taken worldwide so far for installing a U-turn indicator in the vehicles, which would be the most economical way to mitigate road accidents. This is high time to introduce and implement U-turn signalling system in all vehicles in India and worldwide to mitigate fatalities due to automobiles which will definitely bring a new revolution in one of the largest industries by revenue in the world i.e. the automobile industry along with road safety.

No. of Pages : 6 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053106 A

(19) INDIA

(22) Date of filing of Application :04/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : A NOVEL PROCESS AND KIT FOR DETECTION OF NOVEL CORONAVIRUS AND OTHER RESPIRATORY VIRUSES

(51) International classification	:C12Q0001700000, C12N0007000000, C12N0015100000, A61K0048000000, C12Q0001680600	(71)Name of Applicant : 1)Council of Scientific & Industrial Research Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)PEDDAPUVALA SAI UDAY KIRAN
(32) Priority Date	:NA	2)COIMBATORE GURUMOORTHY GOKULAN
(33) Name of priority country	:NA	3)KUNCHA SANTOSH KUMAR
(86) International Application No	:NA	4)TALLAPAKA KARTHIK BHARADWAJ
Filing Date	:NA	5)MISHRA RAKESH KUMAR
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is directed towards a novel process of RT-PCR based diagnosis of SARS-CoV2 and other related respiratory viruses without storing and transporting the naso-pharyngeal and oro-pharyngeal swabs in Viral Testing Media directly after extracting the viral particles from the swabs in a suitable buffer, and using these extracts directly, without involving any steps of RNA isolation/ extraction in between, for RT-PCR based diagnosis of SARS-CoV2 and other related respiratory viruses. The present invention is also directed towards kits based on this novel process for time and cost-efficient diagnosis of SARS-CoV2 and other related respiratory viruses at efficacies matching or better than the efficacies of the gold-standard RT-PCR method starting from VTM transported swabs for diagnosing the same. The present invention also directs to a variant process wherein the viral particles eluted in suitable buffers are further subjected to the conventional steps of RNA extraction before qRT-PCR but with a significant increase in the efficacy of the process compared to the gold-standard method for identification of SARS-CoV2 and other related respiratory viruses.

No. of Pages : 43 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053210 A

(19) INDIA

(22) Date of filing of Application :07/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : APPARATUS FOR CONTROLLING MOVEMENT OF VEHICLE

(51) International classification	:B60T0007100000, B62L0003020000, B62K0023060000, G05G0001040000, B62L0001140000	(71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SHARMA, Ankit
(33) Name of priority country	:NA	2)DHIMAN, Vishal
(86) International Application No	:NA	3)BABBAR, Atul
Filing Date	:NA	4)SHARMA, Rajeev Kamal
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an apparatus (100) for controlling movement of vehicle, the apparatus includes a frame (124) configured with a handle (102) adapted to be held by a user, a braking mechanism configured to the handle and coupled with a wheel (126), the braking mechanism comprising, a brake lever (104) adapted to be operated by the user to move the brake lever in a first direction, wherein, the movement of the brake lever in first direction, creates a downward force to act on a lever latch (108) to fasten a gripping element of the lever latch with a hook (110). A brake arm (112) pivotally coupled to the brake lever, wherein, upon fastening the lever latch, the brake arm (112) is moved upward to contact the wheel (126) with a brake shoe (114) to effect stoppage of the vehicle.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053211 A

(19) INDIA

(22) Date of filing of Application :07/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : FILTER STRUCTURE AND METHOD TO ENABLE FILTRATION OF AIRBORNE PARTICLES

(51) International classification	:B01D0039160000, B01D0046240000, B01D0046100000, B01D0046000000, B01D0046520000	(71)Name of Applicant : 1)Indian Institute of Technology Delhi Address of Applicant :Hauz Khas, New Delhi - 110016, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DAS, Dipayan
(33) Name of priority country	:NA	2)YADAV, Shivendra
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a unique three-dimensional structure of fibrous air filter, and a method to obtain such a unique structure, resulting in high filtration performance. It is a multi-layered fibrous structure consisting of a plurality of fiber media, each consisting of fibers of different cross-sectional shapes such that the fibers constituting the media are progressively more non-circular in cross-section from upstream to downstream of air flow. This unique fibrous structure, exhibiting a gradient of fiber shape along its depth, offers high filtration efficiency, low restriction to air flow, high dirt holding capacity, and delayed rise in restriction to air flow with accumulation of dirt.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053276 A

(19) INDIA

(22) Date of filing of Application :07/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : A DEVICE TO PREVENT COLLISION BETWEEN TWO VEHICLES DURING DENSE FOG AND BLACKOUTS

(51) International classification	:H04W0004700000, G07C0005080000, A63F0013213000, H04W0004800000, B60D0005000000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125,NOIDA,UTTAR PRADESH,INDIA,201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Monika Sharma
(33) Name of priority country	:NA	2)Ajay Rana
(86) International Application No	:NA	3)Sara Shree
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a device to prevent collision between two vehicles during dense fog and blackouts, which is implemented for the perfect solution for the adverse road conditions such as fog and blackout. The device includes a processing unit connecting various IoT devices involved in the operation and process the input data from a plurality of sensors for a desired output; a frequency connect unit adapted as a Bluetooth device to connect other vehicle; a speed limiter sender adapted as a stationary Wi-Fi module connected with another vehicle installed Wi-Fi module; and an Infrared (IR) Camera adapted as Heat sensing camera to detect the vehicle heat which are close to the moving vehicle.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053297 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEMS AND METHODS FOR AUTONOMOUS TESTING OF COMPUTER APPLICATIONS

(51) International classification	:G06F0011360000, G06Q0010080000, G06K0019060000, B60W0010060000, B62B0003140000	(71) Name of Applicant : 1)Fidelity Information Services, LLC Address of Applicant :601 Riverside Avenue, Jacksonville, Florida 32204, United States of America U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GARG, Shefali
(33) Name of priority country	:NA	2)RAMANJANI, Rajiv
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods and systems for autonomous testing of a computer application include receiving analytic data associated with at least one application programming interface (API) flow, wherein an API flow of the at least one API flow includes at least one API; determining response data of the at least one API by inputting the analytic data to a prediction model determined based on a first machine learning technique; determining a subset of the at least one API flow based on the response data and input data representing at least one of a priority level or a risk level of the at least one API flow; and outputting the subset of the at least one API flow for execution.

No. of Pages : 46 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053367 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : SAFE CEILING FANS WITH RETRACTABLE BLADES, OVERWEIGHT SENSORS AND ALARM

(51) International classification	:F04D0025080000, H02G0003200000, B60W0010200000, H02H0003040000, E01F0013040000	(71)Name of Applicant : 1)Naresh Kumar Rana Address of Applicant :717, 2nd Floor, Sec. 9, HUDA, Gurgaon Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Naresh Kumar Rana
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A ceiling fan with safety features includes, a ceiling mount for operably mounting the ceiling fan to a ceiling, a fan body operably connected to the ceiling mount, multiple retractable blades mounted on the fan body, and, a fan shaft operably connected to the fan body. In use, the ceiling fan is a tapered ceiling fan having an outer body design with no grip point for rope to tie around on an outer surface of the ceiling fan. In further use, the retractable blades are configured to be deployed only when the ceiling fan is in use.

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053390 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATICALLY DETERMINING AND TRACKING THE PERFORMANCE OF A VIDEO SURVEILLANCE SYSTEM OVER TIME

(51) International classification	:H04N0007180000, G08B0013196000, G06T0007200000, G06K0009000000, G06K0007100000	(71)Name of Applicant : 1)Honeywell International Inc. Address of Applicant :300 S. Tryon Street, Suite 600, Charlotte, NC 28202, USA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Kondamari, Raja Pratap
(32) Priority Date	:NA	2)Devi, Shyamala
(33) Name of priority country	:NA	3)Kumar, Saravanan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Performance of a video system including a plurality of video cameras each configured to provide a video stream to one or more video recorders and as a monitoring station at which a user can view live and recorded video streams is evaluated. A plurality of live video streams are automatically processed to ascertain one or more live video quality metrics. A plurality of recorded video streams are automatically processed to ascertain one or more recorded video quality metrics. One or more measures of performance of the video system are automatically determined based on the one or more live video quality metrics, the one or more recorded video quality metrics. One or more underperforming components of the video system are identified based at least in part on one or more of the measures of performance of the video system.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053431 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND SYSTEM TO RENDER N-CHANNEL AUDIO ON M NUMBER OF OUTPUT SPEAKERS BASED ON PRESERVING AUDIO-INTENSITIES OF N-CHANNEL AUDIO IN REAL-TIME

(51) International classification	:H04S0003000000, H04S0007000000, G06F0003160000, H04R0029000000, G10L0019020000	(71)Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)MEENA, Natasha
(33) Name of priority country	:NA	2)BAID, Tarun Kant
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method to render n-channel audio on m number of output speakers based on preserving audio-intensities of the n-channel audio in real-time. The method comprises extracting an amplitude-envelope with respect to a multi-channel input audio defined by an n-channel audio, determining m number of location-points around a listener-location served by an audio-output device associated with m number of output speakers, computing in real-time intensities of the n-channel audio at the m number of location-points based on the amplitude-envelope and a simulated playback of the n-channel audio at the m number of location points; and adjusting gain of the m number of output-speakers of the audio output device based on the computed intensities at the m number of location points to render a transformed playback of the n-channel audio as an m-channel audio through the m number of output-speakers.

No. of Pages : 66 No. of Claims : 30

(54) Title of the invention : A LIVING JUVENILE LOBSTER TRANSPORTATION METHOD AND APPARATUS THEREOF

(51) International classification	:A01K0063020000, A01K0061590000, A23K0050450000, H01L0021673000, B65D0085500000	(71)Name of Applicant : 1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH Address of Applicant :Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi-110 001, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)DIVU DAMODARAN NAIR
(33) Name of priority country	:NA	2)SURESH KUMAR MOJJADA
(86) International Application No	:NA	3)GYANARAJAN DASH
Filing Date	:NA	4)ACHEMVEETIL GOPALAKRISHNAN
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates is to a semi-moist long duration living juvenile lobster transportation method and apparatus for enhanced survival rate of juvenile spiny lobster species, *Panulirus polyphagus* during transportation from first location to second location. The apparatus for semi-moist long duration living juvenile lobster transportation from first location to second location comprised of a closed transport container having side and bottom wall with isometric openable lid. The side walls have perforations on its lateral sides facilitating cool air and water vapour circulation. Plurality of juvenile holding tray for placing lobster juveniles/juvenile. The juvenile holding tray can be stacked one over another and have side interlocking mechanism to stabilize juvenile holding tray inside the closed transport container. Plurality of porous thick wet textile, double layer of which is placed at bottom of the plurality of juvenile holding tray and at least single layers of the porous thick wet textile are placed above the layer of lobster juvenile in the juvenile holding tray. At least one water sprinkle mechanism for sprinkle cool sea water over the juvenile holding tray in hourly interval. The juvenile arrangement inside the transport container after selection from the juvenile collection.

No. of Pages : 43 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053481 A

(19) INDIA

(22) Date of filing of Application :08/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : PULSE WIDTH COMMUNICATION IN A WIRELESS POWER SYSTEM

(51) International classification	:H02J0050120000, H02J0007020000, H04B0005000000, H02J0005000000, H02J0050800000	(71)Name of Applicant : 1)General Electric Company Address of Applicant :1 River Road Schenectady New York USA 12345 U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)KANAKASABAI,Viswanathan
(33) Name of priority country	:NA	2)BASAK,Rupam
(86) International Application No	:NA	3)NARAYANA BHAT Suma, Memana
Filing Date	:NA	4)TATIKONDA, Subbarao
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This disclosure provides systems, methods and apparatuses for a new communication technique between a wireless power transmission apparatus and a wireless power reception apparatus. The new communication technique may be more efficient for communication of a feedback parameter or other control information compared to a legacy packet-based digital communication technique. The new communication technique may use a pulse width modulation (PWM) signal as an analog representation of a feedback parameter or other control information. In some implementations, the PWM communication technique in this disclosure can be used for a variety of control or feedback information from the wireless power reception apparatus to the wireless power transmission apparatus. Furthermore, in some implementations, the PWM communication technique may be used for feedforward information from the wireless power transmission apparatus to the wireless power reception apparatus.

No. of Pages : 78 No. of Claims : 75

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053497 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : SELECTIVE OX1R ANTAGONIST IN NICOTINE DEPENDENCE INDUCED WITHDRAWAL SYNDROME IN MICE

(51) International classification	:C07D0401140000, A61P0025340000, A61K0031403500, C07D0401060000, A61P0029000000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SINGH, Thakur Gurjeet
(33) Name of priority country	:NA	2)GREWAL, Amarjot Kaur
(86) International Application No	:NA	3)DHIMAN, Sonia
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of pharmaceuticals. Specifically, the present invention relates to a compound that attenuates nicotine dependence induced withdrawal syndrome. The present invention further relates to a compound that is for the treatment and management of nicotine addiction, wherein the compound is a selective Oxerin receptor antagonist.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053498 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM TO FACILITATE DETECTING AND ANALYZING MOVEMENT DEVIATION

(51) International classification	:A61B0005110000, A61B0005000000, G08B0021020000, G06F0003048900, G06F0003010000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SHARMA, Sarang
(33) Name of priority country	:NA	2)GUPTA, Sheifali
(86) International Application No	:NA	3)GUPTA, Deepali
Filing Date	:NA	4)GUPTA, Rupesh
(87) International Publication No	: NA	5)AHUJA, Rakesh
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a system to facilitate detecting and analyzing movement deviation. The system (100) includes a flexible device (102) adapted to be worn by an entity, the flexible device (102) including a first set of sensors (104) configured to sense force exerted by the pre-determined part of the entity on the flexible device (102) upon movement, a second set of sensors (106) configured to sense posture and movement of the pre-determined part of the entity, a third set of sensors (108) configured to sense one or more muscles response of the pre-determined part of the entity based on the movement of the one or more muscles. The system (100) includes an input interface (110) configured to receive one or more input credentials from the entity, and a controller (112). The controller (112) is configured to analyze, and detect the movement deviation with help of training and testing dataset and alert the entity.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053499 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : NUTRACEUTICAL FOOD COMPOSITION

(51) International classification	:A23L0033105000, A23L0007100000, A61K0036906600, A23K0010300000, A61K0009100000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BHOGAL, Sachin
(33) Name of priority country	:NA	2)KALRA, Sushil
(86) International Application No	:NA	3)SINGH, Gurjinder
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates generally to nutraceutical food compositions. More specifically, the disclosure is directed to a nutraceutical food composition for fasting comprising sesame seeds, pumpkin seeds, chia seeds, flaxseeds, oats, barley, brown rice, pearl millet, buckwheat, millet, sorghum, amarnath, raisins, Indian gooseberry, turmeric, water chestnut flour, a sweetener, and a flavouring agent. The disclosure also relates to a process of preparing the same. The composition for fasting is palatable, cost effective and easy to produce.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053521 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : PORTABLE GRADING MACHINE

(51) International classification	:B07B0001460000, A01G0031060000, B07B0001220000, B07C0005100000, B07B0001420000	(71)Name of Applicant : 1)Shoolini University of Biotechnology and Management Sciences Address of Applicant :Bajhol, PO – Sultanpur, Solan, Himachal Pradesh, INDIA - 173229 Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Abhilash Pathania
(33) Name of priority country	:NA	2)Raj Kumar
(86) International Application No	:NA	3)Mohan Singh
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A portable grading machine comprises a base frame (1) for holding a support frame (2) therewith such that to provide support to roller frames (3). Coil springs (4) are provided with the support frame (2) rotatably that to facilitate the grading of fruits collected in collection trays (5). A feed chamber (6) is provided with the base frame to feed the fruits for grading purposes, and driving means (7) are provided to facilitate the operation of the portable grading machine.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053522 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : INTEGRATED PFC AND DC-DC CONVERTER FOR DUAL DC BUS FOR ONLINE UPS APPLICATION

(51) International classification	:H02M0001420000, B01D0053860000, H02J0009060000, G06F0013380000, A61Q0019000000	(71)Name of Applicant : 1)Schneider Electric IT Corporation Address of Applicant :132 Fairgrounds Road West Kingston Rhode Island, 02892 United States of America U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)AGRAWAL, Hariom
(33) Name of priority country	:NA	2)THATTE, Mihir Sunil
(86) International Application No	:NA	3)NAGABHUSHANRAO, Pradeep Tolakanahal
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An Uninterruptible Power Supply (UPS) including an input configured to receive input AC power, a backup power input configured to receive backup DC power having a first voltage level from a backup power source, a converter configured to convert the input AC power from the input and the backup DC power from the backup power input into DC power having a second voltage level, the converter including an input selection circuit configured to selectively couple the converter to the input and the backup power input, an inductor, a first converter switch configured to couple a first end of the inductor to a neutral connection, and a second converter switch configured to couple a second end of the inductor to the backup power input via the input selection circuit.

No. of Pages : 25 No. of Claims : 21

(54) Title of the invention : ELECTROMAGNETIC INTERFERENCE SHIELDING COMPOSITE FOR RADIO AND MICROWAVE SIGNAL ABSORPTION APPLICATION

(51) International classification	:H05K0009000000, H01L0023552000, H01Q0017000000, C09D0005320000, H05K0001160000	(71)Name of Applicant : 1)Garima Kotnala Address of Applicant :RKOT TESTING AND RESEARCH HUB PRIVATE LIMITED A-12, FIRST FLOOR, NDSE- I(SOUTH EXTN I), NDSE-I(SOUTH EXTN I), South Delhi, Delhi, India, 110049 Delhi India
(31) Priority Document No	:NA	2)Dr. Jyoti Shsh
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Dr. Jyoti Shah
(86) International Application No	:NA	2)Garima Kotnala
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present innovation relates to electromagnetic interference (EMI) shielding having combination of dielectric, conducting and magnetic material in specific weight ratio. In global development role of information sharing is utmost important. For fast communication, technological development of electronic instruments and telecommunications day by day enhances the electromagnetic radiation. Continuous operation of telecommunication and electronic instruments generate radiation harmful for living species. There are two ways of shielding EMI either by reflection or by absorption using electrical shield. Commonly metallic sheets have been used to shield the electrical circuits by reflection from electrical signal. For magnetic signal shielding magnetic material sheet to concentrate magnetic flux is used to shield the instruments. There have been various combinations of dielectric, magnetic and conducting materials being attempted for EMI shielding. In present innovation an electromagnetic interference shielding composite comprising: a dielectric oxide; and conducting oxide mixed within the dielectric at a loading in a range from about 20 weight percent to about 30 weight percent; and magnetic particles mixed within the dielectric at a loading in a range from about 10 weight percent to about 20 weight percent. The shielding composite is effective in protecting many electrical and electronic devices from electromagnetic interference radiation over a frequency range of from about 10 MHz to about 12 GHz. The shielding composite may be made in the form of a sheet, film, a coating, with relative ease.

No. of Pages : 26 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053593 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : INCLUSIVE EDUCATIONAL AND IQ ENHANCEMENT TOY KIT

(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:A61K0039000000, A63H0033220000, G09B0023180000, A63H0033000000, A63H0030040000 :NA :NA :NA :NA :NA : NA :NA :NA :NA :NA :NA	(71)Name of Applicant : 1)Manish Pathak Address of Applicant :Founder & Entrepreneur of Jigyasa Educational, 1/279 Vinamra Khand, Gomti Nagar, Lucknow - 226010 Uttar Pradesh India (72)Name of Inventor : 1)Manish Pathak

(57) Abstract :

The present invention relates to an inclusive educational and IQ enhancement toy kit (10). The objective of the present invention is to solve the problems in prior related to design of toy kit to enhance the IQ and inclusive educational toy or toy kit.

No. of Pages : 26 No. of Claims : 4

(54) Title of the invention : NOVEL ANTITICK PHYTO-PHARMACEUTICAL FORMULATIONS (TK-5, TK-10, TK-C) AGAINST TICK INFESTATIONS IN LIVESTOCK AND PETS ANIMALS

(51) International classification :A61B0017500000, A01N0065200000, A01K0013000000, A23K0040000000, A23K0040200000 (31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number:NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Indian Council of Agricultural Research Address of Applicant :Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi-110001, India Delhi India (72)Name of Inventor : 1)Srikanta Ghosh 2)Satyanshu Kumar 3)Raghuraj Singh 4)Rajesh Kumar 5)Sanis Juliet 6)Anil Kumar Sharma 7)Sharad Srivastava 8)Sonal Shah 9)Ankita Verma 10)Ashutosh Fular 11)Gajanan Chigure 12)Sachin Kumar 13)Suman Gupta 14)Bhanu Kumar 15)Shijin M S

(57) Abstract :

Novel antitick phyto-pharmaceutical formulations (TK-5, TK-10, TK-C) against tick infestations in livestock and pets animals Tick infestations on animals is a common problem in livestock industry. Due to irrational use of chemicals for the management of ticks, multiacaricide resistant tick populations are established in the field situation. To mitigate the problems created by multiacaricide resistant tick populations, novel, safe, stable and effective anti-tick phyto-pharmaceutical formulations (TK-5, TK-10 & TK-C) were developed from a herbaceous plant available throughout the country. Five active compounds viz., coumarin, precocene-I, β -caryophyllene oxide, α -humulene and β -caryophyllene are identified as quality control marker. The formulations were tested against experimental and natural tick infestations and more than 85% efficacy against acaricide-resistant tick infestations on animals was noted.

No. of Pages : 36 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053619 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : IN ONE CLICK FIND YOUR DIGITAL RANKING COVERING SOCIAL MEDIA SENTIMENTS, FOLLOWERS, ENGAGEMENTS, VIRAL VIDEOS, TRENDING HASHTAGS, NEWS ETC

(51) International classification	:G06Q0030020000, G06Q0050000000, G06F0016245700, G06F0016951000, G06F0040300000	(71)Name of Applicant : 1)SHARK TECH INTELLIGENCE (OPC) PRIVATE LIMITED Address of Applicant :LG - 03, Charmwood Plaza, Eros Garden Colony, Suraj Kund Rd, Faridabad HARYANA Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ANUJ SAYAL
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

We have prepared a Platform to measure Digital Ranking, Social media Ranking, Brand Value, Share of Voice, Brand Reach, Competition analysis, Influencers Category Ranking & comparison with Media Monitoring tool, With rapid internet presence or digital presence its paramount to measure your share of voice on digital space, there are tools which measure your mentions but no one is giving you your digital ranking and digital score and detailed measurables tools on important parameters like Mentions, Reach, Engagement, Search, Trends, Sentiment Analysis (Positive, Negative or Neutral), Followers, Impact etc. In one Click find your digital ranking covering social media sentiments, Followers, Engagements, Viral videos, Trending Hashtags,News etc

No. of Pages : 43 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011053623 A

(19) INDIA

(22) Date of filing of Application :09/12/2020

(43) Publication Date : 10/06/2022

(54) Title of the invention : AN AUTOMATIC TOOL CHANGER (ATC) WITH A PROVISION FOR SUPPLYING PRESSURIZED FLUID WITH TRANSMISSION OF ROTARY POWER

(51) International classification	:B23Q0003157000, B23Q0003155000, B23B0031120000, B23Q0005040000, B23B0031260000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi - 110016 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)JHA, Sunil
(32) Priority Date	:NA	2)CHAWLA, Onkar
(33) Name of priority country	:NA	3)VERMA, Tarun
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter deals with an automatic tool changer device which is couplable to the spindle of a machine tool. The invention provides an arrangement for transmitting rotary power to a slave component (12, 39) which can be easily engaged and disengaged from a master shaft (11, 31) that is connected to the spindle of the machine tool. The invention also ensures a leak proof delivery of pressurized fluid from the master to the slave, thus preventing any loss of fluid pressure. In one embodiment of the invention, the plurality of jaws (52) of master shaft (11, 31) gets coupled with the plurality of jaws (54) of the slave part (12, 39) to engage the master part (11) with the slave part (12, 39) and plurality of fastening balls (36) gets inserted into the plurality of holes (51, 61) configured to provide locking mechanism for restricting any vertical motion of the slave part (12, 39) once the slave part (12, 39) is engaged with the master part (11). The pressurized fluid is transmitted from the master part (11) to the slave part (12, 39) via an axial passage (37).

No. of Pages : 33 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030317 A

(19) INDIA

(22) Date of filing of Application :06/07/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD OF PREVENTING GRAVITY JUMP AT EMERGENCY STOP IN ELEVATOR SYSTEMS

(51) International classification	:B66B0005020000, B66B0003000000, B66B0001320000, B66B0005060000, H04W0004900000	(71) Name of Applicant : 1)OTIS ELEVATOR COMPANY Address of Applicant :One Carrier Place, Farmington, Connecticut 06032, United States of America U.S.A.
(31) Priority Document No	:20212046.5	(72) Name of Inventor : 1)SCHÖNAUER, Uwe
(32) Priority Date	:04/12/2020	
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of controlling an elevator car (22), the method comprising: driving the elevator car (22) with a drive system (30) including a drive device (32) and a brake device (36); detecting an emergency stop condition; triggering the brake device (36) in response to detecting an emergency stop condition; determining a delay to be applied between triggering the brake device (36) and stopping the drive device (32); and waiting for a time period corresponding to the delay before stopping the drive device (32).

No. of Pages : 18 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114030318 A

(19) INDIA

(22) Date of filing of Application :06/07/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : EMERGENCY TERMINAL DECELERATION IN ELEVATOR SYSTEMS

(51) International classification	:H04W0004900000, B66B0003000000, B66B0005000000, B66B0005020000, B66B0001520000	(71)Name of Applicant : 1)OTIS ELEVATOR COMPANY Address of Applicant :One Carrier Place, Farmington, Connecticut 06032, United States of America U.S.A.
(31) Priority Document No	:20212048.1	(72)Name of Inventor :
(32) Priority Date	:04/12/2020	1)SCHÖNAUER, Uwe
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of controlling a moving component (22, 24) approaching a buffer (42, 46) in a hoistway (34) of an elevator system (20) is provided. The method comprises: a) calculating, based on a current velocity of the moving component (22, 24), a required braking distance to decelerate the moving component (22, 24) to a maximum buffer impact velocity; b) comparing the required braking distance to a current buffer distance between the moving component (22, 24) and the buffer (42, 46) to give a comparison result; c) repeating steps a) and b) one or more times; and d) triggering an emergency stop of the moving component (22, 24) based on the comparison result.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114041334 A

(19) INDIA

(22) Date of filing of Application :14/09/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification	:B60L0003000000, B60K0001040000, B60K0001000000, H05K0007200000, B60L0050510000	(71)Name of Applicant : 1)TOYOTA JIDOSHA KABUSHIKI KAISHA Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(31) Priority Document No	:2020-204051	(72)Name of Inventor : 1)Taisuke WARASHINA
(32) Priority Date	:09/12/2020	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electric vehicle includes an electrical power converter (10) including a case (12) that has electrical conductivity, a cable (30) that connects the electrical power converter (10) and a battery (20), a high voltage connector (42) that is provided at an end portion of the cable (30), and that is detachably mountable to the electrical power converter (10), a resin cover (60) that is fixed to the case (12), and that protects the cable (30), a bracket (15) that is fixed to the case (12), and that fixes the electrical power converter (10) to a vehicle body of the electric vehicle, a metal plate (70) that conducts with the vehicle body via the case (12) and the bracket (15), and that is fixed on the resin cover (60), and a ground line (80) that links the high voltage connector (42) and the metal plate (70).

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114049651 A

(19) INDIA

(22) Date of filing of Application :29/10/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : LIGHT EMITTING DIODE STRUCTURE, METHOD OF FORMING THE SAME, AND BACKLIGHT MODULE

(51) International classification	:H01L0033600000, H01L0033500000, G02F0001133570, H01L0033460000, H01L0033580000	(71) Name of Applicant : 1)AU Optronics Corporation Address of Applicant :NO. 1, LI-HSIN ROAD 2, SCIENCE-BASED INDUSTRIAL PARK, HSIN-CHU, TAIWAN,
(31) Priority Document No	:109143106	(72) Name of Inventor : 1)I-Hsun HSIEH
(32) Priority Date	:07/12/2020	
(33) Name of priority country/region	:Taiwan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE DISCLOSURE LIGHT EMITTING DIODE STRUCTURE, METHOD OF FORMING THE SAME, AND BACKLIGHT MODULE A light emitting diode structure includes a substrate (110), a chip (120) disposed on the substrate (110), a transparent cup wall (140) surrounding the chip (120) disposed on the substrate (110), a wavelength conversion layer (150) between the transparent cup wall (140) covering the chip (120), and a reflective layer (160) disposed on the wavelength conversion layer (150), in which the reflective layer (160) includes a curved bottom surface (160b) protruding toward the chip. Refer to FIG. 1B

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114049726 A

(19) INDIA

(22) Date of filing of Application :29/10/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : CHARGING APPARATUS

(51) International classification	:H02J0007000000, B60L0058200000, G01R0019165000, H02J0007140000, B60L0003000000	(71)Name of Applicant : 1)Suzuki Motor Corporation Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2020-203295	(72)Name of Inventor : 1)OGAWA, Yuya
(32) Priority Date	:08/12/2020	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A charging apparatus mounted on a vehicle 1 includes a low voltage battery 3, a high voltage battery 4, a voltage conversion module 5 to convert a voltage therebetween, and a controller 10 to control the voltage conversion module, the low voltage battery being charged with an electric power from the high voltage battery, the controller controlling the voltage conversion module to cause a charging to the low voltage battery to continue even after determination that a full charge of the low voltage battery is reached in a case of an ignition-off time equal to or greater than a predetermined amount of time. Figure 4

No. of Pages : 24 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114052247 A

(19) INDIA

(22) Date of filing of Application :15/11/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : FLEXIBLE CIRCUIT BOARD FOR MULTIPLE SIGNAL TRANSMISSION

(51) International classification	:H05K0001110000, H01R0012700000, H01L0023522000, F21V0008000000, H05K0001020000	(71)Name of Applicant : 1)GigaLane Co., Ltd. Address of Applicant :61, Dongtansandan 10-gil, Dongtan- myeon, Hwaseong-si, Gyeonggi-do, 18487, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2020-0167355	(72)Name of Inventor :
(32) Priority Date	:03/12/2020	1)JO, Byung-hoon
(33) Name of priority country	:Republic of Korea	2)KIM, Ik-soo
(86) International Application No	:NA	3)KIM, Byung-yeol
Filing Date	:NA	4)JUNG, Hee-seok
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a flexible circuit board for multiple signal transmission including a first dielectric layer; a plurality of first side grounds formed on one surface of the first dielectric layer to be parallel; first signal lines formed between the plurality of first side grounds; and a plurality of through holes which is formed in each of the plurality of first side grounds with an interval, along a length direction of the first side grounds.

No. of Pages : 40 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114054225 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ROTOR OF AN ELECTRICAL MACHINE

(51) International classification	:H02K0001270000, H02K0001240000, H02K0003520000, B64D0027240000, H02K0001300000	(71)Name of Applicant : 1)Valeo Siemens eAutomotive Germany GmbH Address of Applicant :Frauenauracher Str. 85, 91056 Erlangen, Germany Germany
(31) Priority Document No	:10 2020 215 316.7	(72)Name of Inventor :
(32) Priority Date	:03/12/2020	1)Dotz, Boris
(33) Name of priority country	:Germany	2)Finger-Albert, Christian
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described is a rotor (3) for an electrical machine (1) which comprises a rotor laminated core (6) divided into a plurality of sectors (B), in each of which there is arranged a permanent magnet assembly (4) which has two permanent magnets (13a, 13n) which are arranged in a V shape and which are positioned symmetrically with respect to a plane of symmetry (C) splitting the sector (B) into two half-sectors (D, D'). An outer contour (E) of the rotor laminated core (6) runs in each sector (B) symmetrically with respect to the plane of symmetry (C) and is formed in one half-sector (D, D') by at least three different radii with just as many different centre points. The invention also relates to an electric machine (1) having such a rotor (3) and to a vehicle (17) having such an electric machine (1)

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114055466 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : DEMAPPING RECEIVED DATA

(51) International classification	:H04L0027380000, H04J0003160000, H04L0025060000, H04L0027260000, H04L0001000000	(71)Name of Applicant : 1)NOKIA TECHNOLOGIES OY Address of Applicant :Karakaari 7, 02610 Espoo, Finland Finland
(31) Priority Document No	:20206249	(72)Name of Inventor : 1)GOUTAY, Mathieu
(32) Priority Date	:03/12/2020	2)AITAOUDIA, Faycal
(33) Name of priority country	:Finland	3)HOYDIS, Jakob
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide demapping at a receiving side, a trained model for a demapper is used to output log-likelihood ratios of received signals representing data in a multi-user transmission. Inputs for the trained model for the demapper comprise a resource grid of equalized received signals.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114055494 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SWITCH DEVICE, ELECTRONIC APPARATUS, AND ELECTRONIC MUSICAL INSTRUMENT

(51) International classification	:H01L0027320000, G10H0001340000, H01H0013020000, H01H0013830000, E06B0003700000	(71)Name of Applicant : 1)Casio Computer Co., Ltd. Address of Applicant :6-2, Hon-machi 1-chome, Shibuya-ku, Tokyo 151-8543, Japan Japan
(31) Priority Document No	:2020-204073	(72)Name of Inventor : 1)Naoto IMAMURA
(32) Priority Date	:09/12/2020	2)Kouji OSHIMA
(33) Name of priority country	:Japan	3)Yuuki NAKAJIMA
(86) International Application No	:NA	4)Mari NAKAJIMA
Filing Date	:NA	5)Shingo FUKUSHIMA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT SWITCH DEVICE, ELECTRONIC APPARATUS, AND ELECTRONIC MUSICAL INSTRUMENT A switch device (4, 5) includes: a cap (7) including, on a top surface (711), a first region (71a) and a second region (71b) corresponding to a position where an internal light (133) is disposed and being thinner than the first region (71a); and a switch (61, 62) to which the cap (7) is mounted.

No. of Pages : 38 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114055522 A

(19) INDIA

(22) Date of filing of Application :30/11/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : LITHIUM ION CONDUCTIVE MATERIAL AND METHOD FOR PRODUCING THE SAME

(51) International classification	:H01M0010056200, C03C0010000000, C03C0004180000, H01M0010052500, H01L0045000000	(71)Name of Applicant : 1)Schott AG Address of Applicant :Hattenbergstraße 10, 55122 Mainz (DE) Germany
(31) Priority Document No	:20 020 589.6	(72)Name of Inventor :
(32) Priority Date	:04/12/2020	1)SCHNEIDER, Meike
(33) Name of priority country	:EPO	2)LEUKEL, Sebastian
(86) International Application No	:NA	3)SCHUHMACHER, Jörg
Filing Date	:NA	4)ROTTERS, Andreas
(87) International Publication No	: NA	5)SCHMIDBAUER, Wolfgang
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a lithium ion conductive material, preferably a lithium ion conductive glass ceramic, said material comprising a garnet-type crystalline phase content and an amorphous phase content, wherein said material having a sintering temperature of 1000°C or lower, preferably 950°C or lower and an ion conductivity of at least 110-5 S/cm, preferably at least 210-5 S/cm, preferably at least 510-5 S/cm, preferably at least 110-4 S/cm, and wherein said amorphous phase content comprises boron and/or a composition comprising boron.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114055958 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : COPPER-BASED ANTIMICROBIAL PVD COATINGS WITH WEAR INDICATOR

(51) International classification	:C23C0014060000, B26B0021400000, A61L0027320000, A61L0015560000, C23C0014350000	(71)Name of Applicant : 1)VAPOR TECHNOLOGIES, INC. Address of Applicant :6400 Dry Creek Parkway Longmont, Colorado 80503 United States of America U.S.A.
(31) Priority Document No	:63/122,240	(72)Name of Inventor : 1)Bryce Randolph ANTON
(32) Priority Date	:07/12/2020	2)Nicholas PETERSON
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT COPPER-BASED ANTIMICROBIAL PVD COATINGS WITH WEAR INDICATOR A bioactive coated substrate includes a base substrate, an indicator layer disposed over the base substrate, and a bioactive layer disposed on the indicator layer. Characteristically, the indicator layer has color sufficiently different from the bioactive layer to be visually perceived by a user when the bioactive layer wears away.

No. of Pages : 19 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114055961 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD FOR PREPARING AN N-CYCLOPROPYLMETHYL ANILINE COMPOUND

(51) International classification	:C07D0239470000, C07C0209360000, C07D0239520000, C07D0263580000, A61K0031517000	(71)Name of Applicant : 1)Jiangxi Univate New Material Co., LTD. Address of Applicant :Yanhua Road, Salt Chemical Industrial Park, Xingan County, Ji'an City, Jiangxi Province 331300, China China
(31) Priority Document No	:202011409042.2	(72)Name of Inventor :
(32) Priority Date	:04/12/2020	1)HUANG, Chaoqun
(33) Name of priority country	:China	2)ZHU, Jintao
(86) International Application No	:NA	3)LV, Liang
Filing Date	:NA	4)LUO, Liangming
(87) International Publication No	: NA	5)ZHANG, Rong
(61) Patent of Addition to Application Number:	NA	6)LIU, Jiyong
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a method for preparing an N-cyclopropylmethyl aniline compound, which comprises hydrogenating a compound represented by Formula II and cyclopropyl formaldehyde as raw materials in the presence of an acid and catalyst to generate an N-cyclopropylmethyl aniline compound represented by Formula I, wherein R is alkoxy, alkylamino or a substituted anilino group represented by Formula III.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114055981 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : VEHICLE FRONT PORTION STRUCTURE

(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number: Filing Date (62) Divisional to Application Number Filing Date	:B62D0025080000, B62D0021150000, B62D0025200000, B62D0021110000, B60K0001040000 :2020-203431 :08/12/2020 :Japan :NA :NA : NA :NA :NA :NA :NA :NA	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan (72)Name of Inventor : 1)Yuta NAGASAKI

(57) Abstract :

[Problem to be Solved] To provide a vehicle front portion structure capable of absorbing a collision load acting on electrical components supported by a cross member with peripheral structures at the time of a front-end collision. [Solution] In a vehicle front portion 1, a cross member 12 for supporting electrical components is secured to upper surface portions 4c of side members 4 via brackets 14. The side members 4 are formed into shapes in which intermediate portions 42 are secured to apron panels 7, rear portions 43 are secured to strut towers 6, boundary parts 4b between the intermediate portions 42 and the rear portions 43 are provided at positions at which the boundary parts 4b are superimposed on boundary parts B between the strut towers 6 and the apron panels 7 in a side view of the vehicle, and the rear portions 43 approach an inner side in the vehicle width direction toward a vehicle rear side. The brackets 14 are provided at positions at which the brackets 14 are superimposed on the boundary parts 4b between the intermediate portions 42 and the rear portions 43 of the side members 4 in a top view of the vehicle. [Selected Drawing] Figure 3

No. of Pages : 31 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114055983 A

(19) INDIA

(22) Date of filing of Application :02/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : VEHICLE BODY FRONT PORTION STRUCTURE

(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number: Filing Date (62) Divisional to Application Number Filing Date	:B62D0021150000, B62D0025080000, B60R0019340000, F16F0007120000, B60K0001040000 :2020-203430 :08/12/2020 :Japan :NA :NA : NA :NA :NA :NA :NA :NA	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan (72)Name of Inventor : 1)Yuta NAGASAKI

(57) Abstract :

[Problem to be Solved] To efficiently absorb impact energy caused by an impact load due to a front collision. [Solution] Apron side frames include rear side frames 1B and front side frames 1A joined to front portions of the rear side frames 1B and extending forward from the front portions, the rear side frames 1B include upper rear members 30 and lower rear members 40, first closed section structures SR are formed by the upper rear members 30 and the lower rear members 40, the front side frames 1A include upper front members 10 and lower front members 20, and second closed section structures SF are formed by the upper front members 10 and the lower front members 20.

No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : APPARATUS AND METHOD FOR INSPECTING TRANSPARENT CYLINDRICAL CONTAINERS CONTAINING MILKY PRODUCTS, IN PARTICULAR FOR MEDICAL APPLICATIONS

(51) International classification	:A61M0005140000, G01N0021150000, A61M0039240000, F16K0015140000, B01F0015000000	(71)Name of Applicant : 1)NUOVA OMPI S.R.L. Address of Applicant :Via Molinella, 17, I-35017 Piombino Dese, PADOVA, ITALY Italy
(31) Priority Document No	:102020000030191	(72)Name of Inventor : 1)VALLATI Luca
(32) Priority Date	:09/12/2020	
(33) Name of priority country	:Italy	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus (4) for inspecting transparent cylindrical containers (8) comprising a support and/or gripping device for a cylindrical container (8) adapted to support it and to make it rotate about a vertical rotation axis (Y-Y) , a video camera (12) directed in such a way as to frame and capture images, in the form of pixels, of a window (16) of a side wall (20) of the cylindrical container (8), a first collimated lighting device (24), oriented so as to illuminate said window (16), a second lighting device (28) collimated and oriented in such a way as to illuminate said window (16), arranged opposite the first lighting device (24), in a symmetrical position with respect to the window (16), a control unit (32) operationally connected to the support and/or gripping device, to the video camera (12) and to said first and second lighting devices (24, 28), and programmed to capture images of said window (16) at constant angular intervals, alternately activating the first and second lighting devices (24, 28), for each angular range, until a complete 360° rotation of the cylindrical container is made (8), processing the images obtained in order to catalog the internal or external position of any contaminant with respect to the side wall (20) of the cylindrical container (8) . [Fig. 1]

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114056790 A

(19) INDIA

(22) Date of filing of Application :07/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : AIR CONDITIONING UNIT FOR RECREATIONAL VEHICLE AND CONTROL METHOD THEREOF

(51) International classification	:F24F0011300000, B60H0001000000, F24F0011620000, F24F0110000000, F24F0011520000	(71) Name of Applicant : 1)GUANGDONG GIWEE TECHNOLOGY CO. LTD Address of Applicant :NO.28-3 EASTERN INDUSTRIAL PARK, LISHUI TOWN NANHAI DISTRICT, Foshan City, Guangdong Province, China China
(31) Priority Document No	:202011426010.3	(72) Name of Inventor :
(32) Priority Date	:09/12/2020	1)ZHOU, Min
(33) Name of priority country	:China	2)PU, Zhicheng
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses an air conditioning unit and a control method thereof. The control method includes the following steps: S1. detecting the operation status of an air conditioner; S2. acquiring, by photosensitive sensors, the sunlight conditions of a recreational vehicle in parking; and S3. adjusting, by a control module, air outlet areas of the air conditioning unit for the recreational vehicle according to the acquired sunlight conditions and the sunlight exposure side of the recreational vehicle in parking. The control method can adjust the air outlet areas of the air conditioner by checking the operation status of the air conditioner and acquiring the sunlight conditions of the recreational vehicle in parking through the photosensitive sensors, thereby improving the user's sense of comfort. The present invention also discloses an air conditioning unit.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114056921 A

(19) INDIA

(22) Date of filing of Application :07/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : IMAGE FORMING CONTROL METHOD, CONSUMABLE CHIP, IMAGE FORMING APPARATUS, AND CONSUMABLE

(51) International classification	:G03G0015000000, H04N0001000000, G06F0021600000, G06F0003120000, G03G0021200000	(71) Name of Applicant : 1)ZHUHAI PANTUM ELECTRONICS CO., LTD. Address of Applicant :Buildings 02, 06 and 08, No. 888, Shengping Avenue, Pingsha, Town, Jinwan District, Guangdong 519060, China China
(31) Priority Document No	:CN202011425780.6	(72) Name of Inventor :
(32) Priority Date	:08/12/2020	1)Dan XIONG
(33) Name of priority country	:China	2)Haixiong LI
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT IMAGE FORMING CONTROL METHOD, CONSUMABLE CHIP, IMAGE FORMING APPARATUS, AND CONSUMABLE Embodiments of the present disclosure provide an image forming control method, a consumable chip, an image forming apparatus, and a consumable. For the image forming control method, based on the environmental data, the encryption and decryption processing and transmission are performed on the preset compensation value of the image forming control parameter using the environmental data respectively detected by the consumable chip and the image forming apparatus. The preset compensation value is prevented from being intercepted and tampered during transmission, which makes data transmission more secure, thereby ensuring the printing and image forming quality. FIG. 3

No. of Pages : 52 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114057099 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : OPTIMIZING DISPLAY OF CALLER IDENTITY ON COMMUNICATION DEVICES

(51) International classification	:H04M0001570000, H04M0003420000, H04W0004020000, G09G0005000000, H04W0012060000	(71) Name of Applicant : 1)NEUSTAR, INC. Address of Applicant :1906 Reston Metro Plaza, Suite 500, Reston, VA 20190, USA U.S.A.
(31) Priority Document No	:17/116,160	(72) Name of Inventor :
(32) Priority Date	:09/12/2020	1)TORREY, Jason
(33) Name of priority country	:U.S.A.	2)SENA, Guido Jonjie S., Jr.
(86) International Application No	:NA	3)SHARMA, Gaurav
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are systems and methods for providing optimal branded content to end consumers. The approach takes into account the different available branded display contents that are available, the different metrics that can drive choices, the technological parameters that can influence the provisioning of the branded display content. In addition, the preferences of the end consumer may also influence the provisioning of the branded display content

No. of Pages : 35 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114057101 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : END-TO-END MANAGEMENT OF AUTHENTICATED COMMUNICATIONS

(51) International classification	:H04W0012040000, G07F0007080000, H04L0012180000, H04W0008200000, H04W0092200000	(71) Name of Applicant : 1)NEUSTAR, INC. Address of Applicant :1906 Reston Metro Plaza, Suite 500, Reston, VA 20190, USA U.S.A.
(31) Priority Document No	:17/247,387	(72) Name of Inventor :
(32) Priority Date	:09/12/2020	1)SHARMA, Gaurav
(33) Name of priority country	:U.S.A.	2)SENA, Guido Jonjie S., Jr.
(86) International Application No	:NA	3)POLITZ, Ken
Filing Date	:NA	4)DEGEORGIS, Marybeth
(87) International Publication No	: NA	5)MAHARISHI, Manjul
(61) Patent of Addition to Application Number	:NA	6)TORREY, Jason
Filing Date	:NA	7)GARVERT, James
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein are systems and methods for providing mobile call authentication. For instance, a token indicative of a call request can be received from a calling party. The token can include a called party number and a time of the request. A subscriber database can be accessed to determine identifying information associated with the calling party based at least in part on the token. The token can be authenticated based at least in part on the identifying information and using one or more predefined authentication protocols. The token can be stored in a call session registry storing data indicative of a plurality of active telephone call events. A verification request for the call request can be received from the called party. The call request can be verified based at least in part on the token. The called party can be notified that the call request has been verified.

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117010476 A

(19) INDIA

(22) Date of filing of Application :12/03/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHODS FOR DETECTING LIFETIME USING PHOTON COUNTING PHOTODETECTORS

(51) International classification	:G01N0021640000, G01J0001440000, G01T0001240000, G01R0031280000, H04N0005365000	(71)Name of Applicant : 1)QUANTUM-SI INCORPORATED Address of Applicant :530 Old Whitfield Street Guilford, CT 06437 U.S.A.
(31) Priority Document No	:62/724167	(72)Name of Inventor : 1)CIPRIANY, Benjamin
(32) Priority Date	:29/08/2018	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2019/048824	
Filing Date	:29/08/2019	
(87) International Publication No	:WO/2020/047262	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods for detecting lifetime of luminescent molecules using photodetectors configured to perform photon counting are described. The systems and methods may involve an array of photodetectors for detecting photons emitted from a sample, which may include the luminescent molecules, and detection circuitry associated with the array of photodetectors. The detection circuitry may be configured to count, during at least a first time period and a second time period, a quantity of incident photons at a photodetector in the array of photodetectors.

No. of Pages : 45 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117036543 A

(19) INDIA

(22) Date of filing of Application :12/08/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : BLOCKCHAIN TRANSACTION MANAGER

(51) International classification	:H04L0009320000, G06Q0020380000, H04L0009060000, G06Q0020400000, G06Q0020060000	(71)Name of Applicant : 1)DLT GLOBAL INC. Address of Applicant :55 University Avenue, Suite 1200 Toronto, Ontario M5J 2H7 Canada
(31) Priority Document No	:62/948060	(72)Name of Inventor :
(32) Priority Date	:13/12/2019	1)SRIVASTAVA, Neeraj
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/CA2020/051692	
Filing Date	:09/12/2020	
(87) International Publication No	:WO/2021/113967	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A blockchain transaction manager implements a method of managing submission of blockchain transactions to a node in a blockchain network by validating a received blockchain transaction and enqueueing the validated received blockchain transaction in a transaction queue, preparing at least one transaction attribute of the received blockchain transaction and placing the received blockchain transaction in a persistence queue, digitally signing or certifying the received blockchain transaction, attempting to submit the digitally signed or certified blockchain transaction to the node, and polling a blockchain status of the submitted blockchain transaction. Processes are provided for automatically recalculating blockchain transaction processing fees in the blockchain transaction attributes. Processes are also provided for repairing transaction attributes when the blockchain transaction has been rejected and submitting the repaired blockchain transaction to the node. Also, nonces are automatically assigned to received blockchain transactions and reassigned when the associated blockchain transaction has been rejected.

No. of Pages : 51 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117041196 A

(19) INDIA

(22) Date of filing of Application :14/09/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ELECTRONIC DEVICE INCLUDING ANTENNA DEVICE

(51) International classification	:H04M0001020000, G06F0001160000, H05K0005020000, H05K0005000000, H05K0007140000	(71)Name of Applicant : 1)SAMSUNG ELECTRONICS CO., LTD. Address of Applicant :129, Samsung-ro, Yeongtong-gu Suwon-si Gyeonggi-do 16677 Republic of Korea
(31) Priority Document No	:10-2019-0019551	(72)Name of Inventor :
(32) Priority Date	:19/02/2019	1)YOON, Shinho
(33) Name of priority country	:Republic of Korea	2)OH, Dongjun
(86) International Application No	:PCT/KR2020/002415	3)LEE, Jonghyuck
Filing Date	:19/02/2020	4)HWANG, Soonho
(87) International Publication No	:WO 2020/171597	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electronic device is provided. The electronic device includes a first housing structure including a first side surface member, a second housing structure including a second side surface member, a hinge structure configured to rotatably connect the first housing structure and the second housing structure and configured to provide a folding axis on which the first housing structure and the second housing structure rotate, and at least one printed circuit board, wherein the first side surface member or the second side surface member includes a first side surface portion a second side surface portion, a third side surface portion, a fourth side surface portion, a fifth side surface portion, a first slit a second slit a third slit, and a fourth slit, and a fifth slit, and wherein at least part of at least one of the second side surface portion, the third side surface portion, and the fourth side surface portion is formed of a radiation conductor and is electrically connected to the at least one printed circuit board.

No. of Pages : 60 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117043166 A

(19) INDIA

(22) Date of filing of Application :23/09/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : APPARATUS AND METHOD OF ESTIMATING VALUES FROM IMAGES

(51) International classification	:G06K0009000000, G06K0009460000, G02B0021360000, G06T0009000000, G02B0021000000	(71)Name of Applicant : 1)ILLUMINA, INC. Address of Applicant :5200 Illumina Way San Diego, CA 92122 U.S.A.
(31) Priority Document No	:62/944687	(72)Name of Inventor :
(32) Priority Date	:06/12/2019	1)LANGLOIS, Robert
(33) Name of priority country	:U.S.A.	2)LU, Bo
(86) International Application No	:PCT/US2020/062970	3)REN, Hongjii
Filing Date	:03/12/2020	4)PINTO, Joseph
(87) International Publication No	:WO/2021/113421	5)PRINCE, Simon
(61) Patent of Addition to Application Number	:NA	6)CORBETT, Austin
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method is used to generate a distortion model for a structured illumination microscopy (SIM) optical system. A sliding window is moved in relation to a plurality of images to define a plurality of sub-tiles. Each sub-tile represents a portion of the corresponding image. Parameters are estimated for each sub-tiles. The parameters include two or more parameters selected from the group consisting of modulation, angle, spacing, phase offset, and phase deviation. A full width at half maximum (FWHM) value associated with each sub-tile is estimated. A distortion model is estimated, based at least in part on a combination of the estimated parameters and FWHM values stored in the predetermined format and an estimated center window parameter. A two-dimensional image may be generated, based at least in part on the estimated distortion model. The two-dimensional image may include representations indicating where distortions occur in the optical system.

No. of Pages : 51 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117043168 A

(19) INDIA

(22) Date of filing of Application :23/09/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : APPARATUS AND METHOD OF PROVIDING PARAMETER ESTIMATION

(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:G02B0021360000, G02B0021000000, G02B0027580000, G02B0021060000, G02B0026060000 :62/944692 :06/12/2019 :U.S.A. :PCT/US2020/062971 :03/12/2020 :WO/2021/113422 :NA :NA :NA :NA	(71)Name of Applicant : 1)ILLUMINA, INC. Address of Applicant :5200 Illumina Way San Diego, CA 92122 U.S.A. (72)Name of Inventor : 1)CORBETT, Austin 2)LU, Bo 3)LANGLOIS, Robert 4)PINTO, Joseph 5)CHEN, Yu 6)NEWMAN, Peter 7)REN, Hongji

(57) Abstract :

A method is used to generate a report presenting parameter values corresponding to a structured illumination microscopy (SIM) optical system. The parameter values are based at least in part on the performed modulation calculation corresponding to an image set captured with the SIM optical system. A minimum FWHM slice is identified, based at least in part on an average FWHM value across the images in the first image set. Parameter estimation is performed on the identified minimum FWHM slice. Best in-focus parameters are identified based at least in part on the performed estimation. A phase estimate is performed for each image in the set. A modulation calculation is performed based at least in part on the identified best in-focus parameters. The report is based at least in part on the performed modulation calculation.

No. of Pages : 55 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117043851 A

(19) INDIA

(22) Date of filing of Application :28/09/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ACTUATION SYSTEMS AND METHODS FOR USE WITH FLOW CELLS

(51) International classification	:B01L0003000000, G01N0021050000, A61M0005315000, B01L0009000000, G01N0035100000
(31) Priority Document No	:62/946361
(32) Priority Date	:10/12/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2020/061594
Filing Date	:07/12/2020
(87) International Publication No	:WO/2021/116880
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ILLUMINA SINGAPORE PTE. LTD.

Address of Applicant :29 Woodlands Industrial Park E1 North
Tech Lobby 3 #02-13/18 Singapore 757716 Singapore

(72)Name of Inventor :

1)WANG, Shyun Long

2)ANG, Beng Keong

(57) Abstract :

The invention relates to actuation apparatus and methods for use with flow cells. The apparatus comprises a flow cell assembly comprising a flow cell including at least one channel, a flow cell inlet, and a flow cell outlet, and a gasket assembly operatively fluidically coupled to the flow cell and having a flow cell inlet gasket and a flow cell outlet gasket. The apparatus further comprises a reagent cartridge adapted to receive the flow cell assembly and including a pair of reagent cartridge ports adapted to be fluidly coupled to the flow cell inlet gasket and the flow cell outlet gasket. The apparatus further comprises a reagent cartridge receptacle and a lift plate assembly including a lift plate, a system plunger assembly carried by the lift plate and including a plurality of system plungers, and a lift plate drive assembly operatively coupled to the lift plate, wherein the reagent cartridge comprises a reagent cartridge plunger assembly having a plurality of reagent cartridge plungers, wherein each reagent cartridge plunger is adapted to be aligned with a corresponding system plunger of the system plunger assembly and a corresponding flow cell gasket of the flow cell assembly when the reagent cartridge is received within the reagent cartridge receptacle. The apparatus and methods can be used for sequencing nucleic acids.

No. of Pages : 36 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117044515 A

(19) INDIA

(22) Date of filing of Application :01/10/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : RAPID DETECTION OF GENE FUSIONS

(51) International classification	:G06N0020000000, G16B0040000000, G06F0016335000, G06N0005040000, G06N0003080000	(71)Name of Applicant : 1)ILLUMINA, INC. Address of Applicant :5200 Illumina Way San Diego, California 92122 U.S.A.
(31) Priority Document No	:62/944304	(72)Name of Inventor : 1)DESHPANDE, Viraj
(32) Priority Date	:05/12/2019	2)SCHLESINGER, Johann Felix Wilhelm
(33) Name of priority country	:U.S.A.	3)TRUONG, Sean
(86) International Application No	:PCT/US2020/063496	4)RODDEY, John Cooper
Filing Date	:04/12/2020	5)RUEHLE, Michael
(87) International Publication No	:WO/2021/113779	6)CATREUX, Severine
(61) Patent of Addition to Application Number	:NA	7)MEHIO, Rami
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods, systems, and apparatuses, including computer programs for identifying a gene fusion in a biological sample is disclosed. The method can include actions of obtaining first data that represents a plurality of aligned reads, identifying a plurality of fusion candidates included within the obtained first data, filtering the plurality of fusion candidates to determine a filtered set of fusion candidates, for each particular fusion candidate of the filtered set of fusion candidates: generating, by one or more computers, input data for input to a machine learning model that includes extracted feature data that to represents the particular fusion candidate, providing the generated input data as an input to the machine learning model that has been trained to generate output data representing a likelihood that a fusion candidate is a valid gene fusion, and determining whether the particular fusion candidate corresponds to a valid gene fusion based on the output data.

No. of Pages : 38 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057048 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SYNERGISTIC FUNGICIDAL COMPOSITION

(51) International classification	:A01N0043653000, A01N0037340000, A01N0037380000, A01N0043840000, A01N0043500000	(71)Name of Applicant : 1)JIANGSU ROTAM CHEMISTRY CO., LTD Address of Applicant :No. 88 Rotam Road, ETDZ Kunshan, Jiangsu 215301 China
(31) Priority Document No	:19181663.6	(72)Name of Inventor :
(32) Priority Date	:21/06/2019	1)BRISTOW, James Timothy
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/CN2019/129856	
Filing Date	:30/12/2019	
(87) International Publication No	:WO/2020/253212	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a synergistic fungicidal composition comprising prothioconazole, chlorothalonil and dimethomorph as the active components, and the use of the synergistic fungicidal composition of present invention for controlling undesired fungal infestations. The present invention also provides a method of controlling undesired fungal infestations, which comprises applying the active components prothioconazole, chlorothalonil and dimethomorph of the synergistic fungicidal composition of present invention to the undesired fungal infestations jointly or separately.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057049 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PEPTIDES

(51) International classification	:A61K0039000000, A61K0038000000, C07K0014470000, C07K0014435000, C07K0014820000	(71)Name of Applicant : 1)HUBRO THERAPEUTICS AS Address of Applicant :Ullernchausséen 64 0379 Oslo Norway
(31) Priority Document No	:19177444.7	(72)Name of Inventor : 1)ERIKSEN, Jon Amund
(32) Priority Date	:29/05/2019	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2020/064893	
Filing Date	:28/05/2020	
(87) International Publication No	:WO/2020/239937	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

There is disclosed a peptide comprising a fragment of SEQ ID NO: 2 or SEQ ID NO: 8. The fragment comprises at least 8 consecutive amino acids of SEQ ID NO: 8, including at least one of positions 121 and 135 of SEQ ID NO: 8. Alternatively, the fragment comprises positions 6 to 13 of SEQ ID NO: 3 and the peptide comprises no more than 21 amino acids, the fragment comprises positions 7 to 22 of SEQ ID NO: 3 and the peptide comprises no more than 40 amino acids, or the fragment comprises positions 18 to 33 of SEQ ID NO: 3, and the peptide comprises no more than 33 amino acids. Alternatively, the fragment comprises the amino acid sequence of SEQ ID NO: 29, and the peptide comprises no more than 21 amino acids and is for use in the treatment and/or prophylaxis of cancer. The peptide is capable of inducing an immune response against a TGFβR2 -1a frameshift mutant protein

No. of Pages : 44 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057050 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : BIOCEMENT AND SELF-HEALING BIOCONCRETE COMPOSITIONS

(51) International classification	:A61L0024020000, C07D0213750000, C07D0263580000, C12N0001120000, C04B0111000000
(31) Priority Document No	:20190100207
(32) Priority Date	:10/05/2019
(33) Name of priority country	:Greece
(86) International Application No	:PCT/GB2020/051110
Filing Date	:06/05/2020
(87) International Publication No	:WO/2020/229797
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)LIVERPOOL JOHN MOORES UNIVERSITY

Address of Applicant :Student Life building, 10 Copperas Hill,
Liverpool L3 5AH, United Kingdom U.K.

(72)Name of Inventor :

1)BRAS, Ana Margarida Armada

2)MOHAMMED, Hazha Bushir

3)NAKOUTI, Ismini

(57) Abstract :

The present invention relates to a bioproduct, biocement compositions comprising the bioproduct, methods of their manufacture, bioconcrete compositions comprising the biocement and methods of their manufacture, the invention also includes methods of, and uses for, the bioproduct, biocement and bioconcrete compositions and products, especially but not exclusively, in the control, prevention or repair of corrosion in reinforced concrete structures.

No. of Pages : 16 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057063 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : MULTILAYER FILM AND LID MATERIAL

(51) International classification	:B32B0027080000, B32B0027320000, B32B0027360000, C08L0067040000, B29K0025000000	(71)Name of Applicant : 1)DIC CORPORATION Address of Applicant :35-58, Sakashita 3-chome, Itabashi-ku, Tokyo 1748520 Japan
(31) Priority Document No	:2019-124476	(72)Name of Inventor :
(32) Priority Date	:03/07/2019	1)MATSUBARA Hiroaki
(33) Name of priority country	:Japan	2)KAWAGISHI Hideki
(86) International Application No	:PCT/JP2020/023889	
Filing Date	:18/06/2020	
(87) International Publication No	:WO/2021/002207	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A multilayer film has a heat-sealable layer (A) and a base layer (B), with one surface layer of said film being a heat-sealable layer (A) surface and the other surface layer being a base layer (B) surface, wherein the heat-sealable layer (A) contains a polylactic acid-based resin (a1) and a polybutylene succinate-based resin (a2). The multilayer film can thus exhibit suitable heat sealability over a wide range of temperatures and easy-to-release properties in application to various materials including environmentally friendly materials, and can attain suitable impact resistance.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057064 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD USED FOR TRANSMITTING DATA, AND TERMINAL DEVICE

(51) International classification	:H04W0072040000, H04L0005000000, H04W0072120000, H04B0007040000, H04B0007024000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2019/097713
Filing Date	:25/07/2019
(87) International Publication No	:WO/2021/012265
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)GUANGDONG OPPO MOBILE

TELECOMMUNICATIONS CORP., LTD.

Address of Applicant :No.18, Haibin Road, Wusha, Chang'an
Dongguan, Guangdong 523860 China

(72)Name of Inventor :

1)CHEN, Wenhong

(57) Abstract :

Disclosed in embodiments of the present application are a method for transmitting data, and a terminal device, the method comprising: a terminal device receiving DCI, the DCI being used for scheduling PDSCH transmission in multiple time domain resource units, and the DCI being further used for indicating K TCI states; and the terminal device determining from among the K TCI states the TCI state used for the PDSCH transmission in the multiple time domain resource units according to at least one among the following information: the number of CDM groups to which a DMRS port used belongs, the configuration of a re-transmission means of PDSCH, the number configuration means of the multiple time domain resource units, and a physical resource configuration in one time domain resource unit among the multiple time domain resource units. The method and the terminal device according to the embodiments of the present application help the terminal device to determine the used TCI state after configuring multiple time domain resource units, thus helping to increase the performance of PDSCH transmission.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057070 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SADDLE RIDING-TYPE VEHICLE

(51) International classification	:F01N0013180000, F01N0003280000, F01N0013000000, F01N0003200000, B63H0021320000
(31) Priority Document No	:2019-108215
(32) Priority Date	:10/06/2019
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2020/022679
Filing Date	:09/06/2020
(87) International Publication No	:WO/2020/250884
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)HONDA MOTOR CO., LTD.

Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan

(72)Name of Inventor :

1)MAKI Satoru

(57) Abstract :

This saddle riding-type vehicle (11) is provided with, inside a casing (38): a silencer (33) that partitions a plurality of partitioned chambers that cause pressure drop in an exhaust gas discharged from an engine (27); an exhaust pipe (32) having a conduit (32a) connected to an exhaust port of an engine (27) at an upstream end and open in a space inside the silencer (33) at a downstream side, and an outer pipe (32b) that accommodates at least a portion of the conduit (32a) and is coupled to the casing (38) at the downstream end; and a catalyst (51) that is assembled to the conduit (32a) below the engine (27) and inside the outer pipe (32b), and purifies the exhaust gas, wherein a space outside the conduit (32a) and inside the outer pipe (32b) is connected to any of the partitioned chambers (41, 43, 44). Accordingly, provided is a saddle riding-type vehicle that is capable of contributing to an increase in the volume of the partitioned chambers while suppressing the protruding of the silencer as much as possible.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057076 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ELECTRONIC DEVICE INCLUDING TRANSCEIVER FOR CALIBRATING I/Q IMBALANCE IN MILLIMETER WAVE COMMUNICATION SYSTEM AND METHOD OF OPERATING SAME

(51) International classification	:H04B0017140000, H04L0027360000, H04L0027380000, H04L0027260000, H04B0007060000
(31) Priority Document No	:62/875616
(32) Priority Date	:18/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/KR2020/009545
Filing Date	:20/07/2020
(87) International Publication No	:WO/2021/010807
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)SAMSUNG ELECTRONICS CO., LTD.
Address of Applicant :129 Samsung-ro, Yeongtong-gu
Suwon-si, Gyeonggi-do 16677 Republic of Korea
(72)Name of Inventor :
1)DAO, Manh Tuan
2)AOKI, Yuichi
3)KIM, Yonghoon

(57) Abstract :

The disclosure relates to a communication method and system for converging a 5th-Generation (5G) communication system for supporting higher data rates beyond a 4th-Generation (4G) system with a technology for Internet of Things (IoT). A method of operating an electronic device in a wireless communication system is provided. The method includes inputting training signals into a first loopback route and a second loopback route, determining a loopback gain and a loopback phase, based on a first training signal passing through the first loopback route and a second training signal passing through the second loopback route, determining a frequency domain compensation filter, based on the loopback gain and the loopback phase, determining an FIR filter and a DC offset, based on the frequency domain compensation filter, and compensating for a transmission signal and a reception signal, based on the FIR filter and the DC offset.

No. of Pages : 59 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057077 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANTENNA MODULE AND ELECTRONIC DEVICE INCLUDING THE SAME

(51) International classification	:H01Q0001220000, H05K0001020000, G06K0019077000, H01L0023373000, H04B0005000000	(71)Name of Applicant : 1)SAMSUNG ELECTRONICS CO., LTD. Address of Applicant :129, Samsung-ro, Yeongtong-gu Suwon-si Gyeonggi-do 16677 Republic of Korea
(31) Priority Document No	:10-2019-0086184	(72)Name of Inventor :
(32) Priority Date	:17/07/2019	1)PARK, Soon
(33) Name of priority country	:Republic of Korea	2)KIM, Yeonwoo
(86) International Application No	:PCT/KR2020/008120	3)LEE, Haekwon
Filing Date	:24/06/2020	4)LEE, Woosup
(87) International Publication No	:WO/2021/010607	5)NA, Hyoseok
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is an antenna module including a first printed circuit board (PCB) including a first surface facing a first direction and a second surface facing a second direction opposite the first direction, a second PCB including a third surface facing the first direction spaced from the first PCB and a fourth surface facing the second direction spaced from the first surface, a radio frequency integrated circuit (RFIC) disposed on the first surface, and a connection member comprising a conductive material connecting the first surface to the fourth surface. The at least one first conductive pattern is connected to the RFIC. The at least one third conductive pattern is connected to the RFIC via the connection member. The at least one first conductive pattern and the at least one third conductive pattern at least partially overlap with each other at least partly, when viewed from above the second surface.

No. of Pages : 42 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057091 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS AND COMPOSITIONS COMPRISING STAPHYLOCOCCUS PROTEIN A (SPA) VARIANTS

(51) International classification	:A61K0039085000, C07K0016120000, A61K0039000000, C07K0014310000, A61K0039400000	(71) Name of Applicant : 1)THE UNIVERSITY OF CHICAGO Address of Applicant :5801 South Ellis Avenue Chicago, Illinois 60637 U.S.A.
(31) Priority Document No	:62/847832	(72) Name of Inventor :
(32) Priority Date	:14/05/2019	1)SCHNEEWIND, Olaf
(33) Name of priority country	:U.S.A.	2)MISSIAKAS, Dominique
(86) International Application No	:PCT/US2020/070048	3)SUN, Yan
Filing Date	:13/05/2020	4)KIM, Hwan Keun
(87) International Publication No	:WO/2020/232471	5)SHI, Miaomiao
(61) Patent of Addition to Application Number	:NA	6)CHEN, Xinhai
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments concern methods and composition for preventing or treating a bacterial infection, particularly infection by a Staphylococcus bacterium. The embodiments concern improved non-toxicogenic Protein A (SpA) variant.

No. of Pages : 140 No. of Claims : 165

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057100 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS, SYSTEMS, AND MEDIA FOR RESOLVING GRAPH DATABASE QUERIES

(51) International classification	:G06F0016245300, F16H0063300000, G01C0021200000, B29C0048000000, G06F0016245000	(71)Name of Applicant : 1)REDIS LTD. Address of Applicant :3 Tavas Street ISRAEL 45353 Hod Hasharon Israel
(31) Priority Document No	:62/847211	(72)Name of Inventor :
(32) Priority Date	:13/05/2019	1)LIPMAN, Roi
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IL2020/050413	
Filing Date	:06/04/2020	
(87) International Publication No	:WO/2020/230116	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method, systems, and media for resolving a database query are provided, comprising: identifying a connected component in a query graph corresponding to the database query; determining a longest path length for the connected component; selecting a path having the longest path length; building an algebraic expression for the path; solving the algebraic expression using matrix-matrix multiplication to provide a solution; and responding to the query based on the solution.

No. of Pages : 26 No. of Claims : 21

(54) Title of the invention : WATER TREATMENT SYSTEM AND WATER TREATMENT METHOD

(51) International classification	:C02F0001000000, G06Q0050060000, C02F0103020000, C02F0003100000, F24H0009200000	(71)Name of Applicant : 1)KABUSHIKI KAISHA TOSHIBA Address of Applicant :1-1, Shibaura 1-chome, Minato-ku, Tokyo 1050023 Japan 2)TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION
(31) Priority Document No	:2019-099686	(72)Name of Inventor :
(32) Priority Date	:28/05/2019	1)OBARA, Takumi
(33) Name of priority country	:Japan	2)HU, Jinyang
(86) International Application No	:PCT/JP2020/019812	3)KAKINUMA, Kenji
Filing Date	:19/05/2020	4)OOTSUKI, Nobuhiro
(87) International Publication No	:WO/2020/241382	5)MONIWA, Shinobu
(61) Patent of Addition to Application Number	:NA	6)SAITO, Miwa
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a water treatment system with which it is possible to estimate the amount of microorganisms adhering to a flat plate on the basis of information from a contactless sensor and to autonomously control a water treatment operation on the basis of the result of estimation. According to an embodiment, there is provided a water treatment system that purifies raw water through use of microorganisms while causing a flat plate to which the microorganisms adhere to rotate so that a part of the flat plate is immersed in the raw water, the water treatment system being provided with a controller that controls the operation of the water treatment system, the controller having an adhesion amount estimation unit that estimates the amount of microorganisms adhering to the flat plate, and a rotation-speed-switching unit that causes the rotation speed of the flat plate per unit time to change on the basis of the result of estimation by the adhesion amount estimation unit.

No. of Pages : 95 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057103 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEMS AND METHODS FOR MANAGING BATTERIES

(51) International classification	:G07F0017320000, G06Q0040000000, G05D0016000000, H04M0003533000, G06F0021800000	(71)Name of Applicant : 1)GOGORO INC. Address of Applicant :3806 Central Plaza, 18 Harbour Road Wanchai, Hong Kong China
(31) Priority Document No	:62/875379	(72)Name of Inventor :
(32) Priority Date	:17/07/2019	1)CHEN, Ching
(33) Name of priority country	:U.S.A.	2)WU, Jia-Yang
(86) International Application No	:PCT/IB2020/000578	3)LIAO, En-Yi
Filing Date	:15/07/2020	4)CHEN, Chien-Chung
(87) International Publication No	:WO/2021/009561	5)LUKE, Hok-Sum, Horace
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method and associated system for managing and/or authenticating an energy storage device. The method includes receiving a first portion of identification information stored in a data storage attached to the energy storage device (401); analyzing the first portion of the identification information at least partially based on a device identification of the device (403); updating a second portion of the identification information stored in the data storage attached to the energy storage device based on a result of analyzing the first portion of the identification information (405).

No. of Pages : 20 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057104 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SINGLE-CHANNEL SEQUENCING METHOD BASED ON SELF-LUMINESCENCE

(51) International classification	:C12Q0001686900, C12Q0001681800, G01N0033680000, B42D0025230000, C09K0011020000	(71)Name of Applicant : 1)EGI TECH (SHEN ZHEN) CO., LIMITED Address of Applicant :7F, Building 11, Beishan Industrial Zone, No. 146, Beishan Road, Yangang Community, Yantian Street, Yantian District Shenzhen, Guangdong 518083 China
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)LIAO, Sha
(33) Name of priority country	:NA	2)CHEN, Xi
(86) International Application No	:PCT/CN2019/086974	3)CHEN, Ao
Filing Date	:15/05/2019	4)ZHANG, Wenwei
(87) International Publication No	:WO/2020/227953	5)XU, Chongjun
(61) Patent of Addition to Application Number	:NA	6)CHEN, Hongmin
Filing Date	:NA	7)ZHAO, Jie
(62) Divisional to Application Number	:NA	8)FU, Defeng
Filing Date	:NA	

(57) Abstract :

The present invention provides a sequencing method based on a single fluorescent dye, comprising using self-luminous signals for distinguishing the sequential incorporation of different nucleotides, thereby realizing the determination of a polynucleotide sequence.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057105 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : OPTIMUM CONTROL DEVICE, OPTIMUM CONTROL METHOD AND COMPUTER PROGRAM

(51) International classification :G05B0013020000,
B25J0009160000,
B62D0057032000,
G05B0019416000,
H04N0019440000
(31) Priority Document No :2019-100408
(32) Priority Date :29/05/2019
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2020/020816
Filing Date :27/05/2020
(87) International Publication No :WO/2020/241657
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)TOSHIBA INFRASTRUCTURE SYSTEMS &
SOLUTIONS CORPORATION**

Address of Applicant :72-34, Horikawa-cho, Saiwai-ku,
Kawasaki-shi, Kanagawa 2120013 Japan

2)KABUSHIKI KAISHA TOSHIBA

(72)Name of Inventor :

1)YAMANAKA, Osamu

2)ONISHI, Yuuta

3)HIRAOKA, Yukio

(57) Abstract :

Provided are an optimum control device, an optimum control method, and a computer program which can adapt to the dynamics of a target control process and more stably operate extreme value control. The optimum control device according to the present embodiment comprises a first gradient estimation unit, a manipulated variable determination unit, a second gradient estimation unit, and a parameter adjustment unit. The first gradient estimation unit estimates the Jacobian of an evaluation function on the basis of a signal indicating an evaluation amount. The manipulated variable determination unit determines a direction and an amount to move a manipulated variable by means of integrating the estimated value of the Jacobian. The second gradient estimation unit estimates the Hessian of the evaluation function on the basis of the signal indicating the evaluation amount. The parameter adjustment unit adjusts integration gain in the manipulated variable determination unit in accordance with a change in the evaluation function by means of dividing the estimated value of the Jacobian, which was inputted into the manipulated variable determination unit, by a regularized signal, which is a value based on the estimated value of the Jacobian or the Hessian of the evaluation function and adjusted so as to not be 0.

No. of Pages : 57 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057129 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : FUSED HETEROCYCLIC COMPOUNDS AND THEIR USE AS PEST CONTROL AGENTS

(51) International classification	:C07D0471040000, A01N0043900000, C07D0513040000, C07D0495040000, C07D0417060000	(71) Name of Applicant : 1)PI INDUSTRIES LTD. Address of Applicant :Udaisagar Road Udaipur- Rajasthan 313001 Rajasthan India
(31) Priority Document No	:201911023447	(72) Name of Inventor :
(32) Priority Date	:13/06/2019	1)KUKREJA, Gagan
(33) Name of priority country	:India	2)KUMAR, Vikas
(86) International Application No	:PCT/IB2020/055513	3)JENA, Lalit Kumar
Filing Date	:12/06/2020	4)VERMA, Jeevan Singh
(87) International Publication No	:WO/2020/250183	5)SAXENA, Rohit
(61) Patent of Addition to Application Number	:NA	6)MANDAL, Sunil Kumar
Filing Date	:NA	7)GADE, Vishwanath
(62) Divisional to Application Number	:NA	8)C, Kiran K
Filing Date	:NA	9)SARAGUR, Ravikumar Suryanarayana
		10)KLAUSENER, Alexander G.M.

(57) Abstract :

The present invention discloses a fused heterocyclic compound of formula (I), wherein, R1, Y, Q, A, G,m and E are as defined in the detailed description. The present invention further discloses methods for their preparation and use of the compounds of formula (I) as a pest control agent.

No. of Pages : 128 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057130 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : IMAGE DECODING METHOD AND APPARATUS

(51) International classification	:H04N0019119000, H04N0019176000, H04N0019700000, H04N0019820000, H04N0019157000	(71)Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/863257	(72)Name of Inventor :
(32) Priority Date	:18/06/2019	1)YOO, Sunmi
(33) Name of priority country	:U.S.A.	2)NAM, Junghak
(86) International Application No	:PCT/KR2020/007813	3)CHOI, Jungah
Filing Date	:17/06/2020	
(87) International Publication No	:WO/2020/256391	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An image decoding method performed by a decoding apparatus, according to the present document, comprises the steps of: acquiring image information including a block-based delta pulse code modulation (BDPCM) constraint flag indicating whether or not BDPCM is constrained with respect to an image; acquiring BDPCM-associated information regarding a current block on the basis of the BDPCM constraint flag; and generating reconstructed samples for the current block on the basis of the BDPCM-associated information.

No. of Pages : 80 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057131 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SOUND SIGNAL RECEPTION/DECODING METHOD, SOUND SIGNAL DECODING METHOD, SOUND SIGNAL RECEPTION-SIDE DEVICE, DECODING DEVICE, PROGRAM, AND RECORDING MEDIUM

(51) International classification	:G10L0019008000, H03M0007300000, G10L0019240000, H04N0019132000, H04B0007041700	(71)Name of Applicant : 1)NIPPON TELEGRAPH AND TELEPHONE CORPORATION Address of Applicant :5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008116 Japan
(31) Priority Document No	:PCT/JP2019/023423	(72)Name of Inventor :
(32) Priority Date	:13/06/2019	1)MORIYA, Takehiro
(33) Name of priority country	:Japan	2)KAMAMOTO, Yutaka
(86) International Application No	:PCT/JP2019/051595	3)SUGIURA, Ryosuke
Filing Date	:27/12/2019	
(87) International Publication No	:WO/2020/250470	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a technique with which it is possible to obtain a decoded sound signal having high sound quality, without significantly increasing a delay time to a greater extent than in a configuration in which only a decoded sound signal having a minimum required quality is obtained. In a terminal device connected to a first communication line and to a second communication line having lower priority than the first communication line, sound signals for a plurality of channels are obtained and outputted on the basis of monaural encoding included in a first encoded string inputted from the first communication line, and expanded encoding included in a second encoded string having the frame number closest to that of the monaural encoding among second encoded strings inputted from the second communication line.

No. of Pages : 123 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057132 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : MATRIX-BASED INTRA PREDICTION DEVICE AND METHOD

(51) International classification	:H04N0019176000, H04N0019700000, H04N0019110000, H04N0019593000, H04N0019130000	(71)Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :128, Yeoui-daero Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/856720	(72)Name of Inventor :
(32) Priority Date	:03/06/2019	1)SALEHIFAR, Mehdi
(33) Name of priority country	:U.S.A.	2)KIM, Seunghwan
(86) International Application No	:PCT/KR2020/007219	
Filing Date	:03/06/2020	
(87) International Publication No	:WO/2020/246805	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An image decoding method according to the present document may comprise the steps of: receiving flag information indicating whether or not matrix-based intra prediction (MIP) is to be used for a current block; receiving matrix-based intra prediction (MIP) mode information on the basis of the flag information; generating intra prediction samples for the current block on the basis of the MIP mode information; and generating reconstructed samples for the current block on the basis of the intra prediction samples, wherein a syntax element bin string for the MIP mode information is binarized by using a truncated binarization method.

No. of Pages : 70 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057134 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SUCCINATE PRODRUG, COMPOSITIONS CONTAINING THE SUCCINATE PRODRUG AND USES THEREOF

(51) International classification	:A61Q0019000000, C07C0327300000, A61K0051040000, A61K0031355000, C07D0491100000	(71)Name of Applicant : 1)ABLIVA AB Address of Applicant :Medicon Village 223 81 Lund Sweden
(31) Priority Document No	:PA201970382	(72)Name of Inventor : 1)HANSSON, Magnus Joakim
(32) Priority Date	:19/06/2019	2)GRÖNBERG, Alvar
(33) Name of priority country	:Denmark	3)ELMÉR, Mats Eskil
(86) International Application No	:PCT/EP2020/066923	4)FARMERY, Mark Richard
Filing Date	:18/06/2020	5)MOSS, Steven James
(87) International Publication No	:WO/2020/254484	6)WEBSTER, Lee Robert
(61) Patent of Addition to Application Number	:NA	7)GREGORY, Matthew Alan
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a novel isolated succinate prodrug as the free compound or a salt, hydrate, solvate or complex thereof being cell permeable and aimed for increasing the ATP-production in mitochondria. The compound is useful in the medical treatment of a range of diseases, in nutritional supplements, nutricosmetics and in cosmetics.

No. of Pages : 84 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057135 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : TERMINAL AND RADIO COMMUNICATION METHOD

(51) International classification	:H04L0005000000, H04W0074080000, H04W0072040000, H04L0001180000, H04L0027260000	(71) Name of Applicant : 1)NTT DOCOMO, INC. Address of Applicant :11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 1006150 Japan
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MATSUMURA, Yuki
(33) Name of priority country	:NA	2)NAGATA, Satoshi
(86) International Application No	:PCT/JP2019/023371	3)WANG, Lihui
Filing Date	:12/06/2019	4)HOU, Xiaolin
(87) International Publication No	:WO/2020/250360	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An embodiment of the terminal of the present disclosure has: a reception unit for receiving a response signal corresponding to a random access preamble transmitted on the basis of a downlink control channel; and a control unit which, when transmitting an uplink shared channel on the basis of the response signal, performs control such that the presence or absence of transmission of a phase tracking reference signal (PTRS) in initial transmission and the presence or absence of transmission of the PTRS in retransmission coincide.

No. of Pages : 53 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057136 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : HOSE CONNECTOR, HOSE LINE, AND METHOD FOR PRODUCING A HOSE CONNECTOR

(51) International classification	:A61J0001200000, E03C0001020000, A47L0009240000, F02M0035120000, E03C0001040000	(71)Name of Applicant : 1)NEOPERL GMBH Address of Applicant :Klosterrunsstr. 9-11 79379 Müllheim Germany
(31) Priority Document No	:20 2019 102 837.8	(72)Name of Inventor :
(32) Priority Date	:20/05/2019	1)REINHARDT, Holger
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2020/056997	
Filing Date	:13/03/2020	
(87) International Publication No	:WO/2020/233860	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a hose connector (5) which can be fixed to the hose end region of at least one flexible hose (6) and comprises for this purpose an outer part (7), which surrounds the hose end region of the at least one hose (6), and an inner part (8), which can be inserted into the clear cross section of the hose. The hose connector according to the invention is characterised in that the inner part (8) is in the form of a hollow rivet and is deformable between an initial form, which can be inserted into the clear cross section of the hose of the hose end region, and a flared form, which sealingly and fixingly clamps the at least one hose between the inner part (8) and the outer part (7). The invention also relates to a hose line that can also be formed for example as a two-chamber or multi-chamber hose line. Moreover, the invention relates to a method for producing a hose connector on the hose end region of a flexible hose.

No. of Pages : 28 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057137 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : COMPOSITIONS AND METHODS OF MANUFACTURING TRIVALENT FILOVIRUS VACCINES

(51) International classification	:A61K0039000000, A61K0039120000, A61K0039390000, A61K0039085000, A61K0009107000
(31) Priority Document No	:62/850443
(32) Priority Date	:20/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/033864
Filing Date	:20/05/2020
(87) International Publication No	:WO/2020/236973
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)SOLIGENIX, INC.

Address of Applicant :29 Emmons Drive, Suite B-10
Princeton, NJ 08540 U.S.A.

2)UNIVERSITY OF HAWAII

(72)Name of Inventor :

1)DONINI, Oreola

2)LEHRER, Axel

(57) Abstract :

Disclosed is a stable immunogenic composition capable of eliciting a robust and durable immune response, comprising at least one antigen consisting of a filovirus glycoprotein and at least one nano-emulsion adjuvant which are co-lyophilized and can be reconstituted immediately prior to use. Also disclosed is a vaccine composition comprising at least two antigens, wherein each antigen is specific to a different genus of filovirus and which also comprises at least one nano-emulsion adjuvant.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057138 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : REDOX FLOW BATTERY SYSTEMS AND METHODS OF MANUFACTURE AND OPERATION

(51) International classification	:H01M0008180000, H01M0008200000, H01M0008041860, H01M0008042760, H01M0008242000	(71)Name of Applicant : 1)CREEK CHANNEL INC. Address of Applicant :12511 131st Ct Ne Kirkland, WA 98034 U.S.A.
(31) Priority Document No	:62/849959	(72)Name of Inventor :
(32) Priority Date	:20/05/2019	1)WEI, Kui
(33) Name of priority country	:U.S.A.	2)LI, Liyu
(86) International Application No	:PCT/US2020/033376	
Filing Date	:18/05/2020	
(87) International Publication No	:WO/2020/236700	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system includes a redox flow battery system that includes an anolyte, a catholyte, a first half-cell having a first electrode in contact with the anolyte, a second half-cell having a second electrode in contact with the catholyte, and a first separator separating the first half-cell from the second half-cell. The system also includes a balance arrangement that includes a balance electrolyte having vanadium ions in solution, a third half-cell having a third electrode in contact with the anolyte or the catholyte, a fourth half-cell having a fourth electrode in contact with the balance electrolyte, and a reductant in the balance electrolyte or introducible to the balance electrolyte for reducing dioxovanadium ions.

No. of Pages : 42 No. of Claims : 100

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057139 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM AND METHOD FOR CONTINUOUS PROCESSING OF POWDER PRODUCTS

(51) International classification	:B01F0015000000, B01F0015020000, B01F0007000000, B01F0013100000, A23G0009040000	(71)Name of Applicant : 1)FETTE COMPACTING GMBH Address of Applicant :Grabauer Straße 24 21493 Schwarzenbek Germany
(31) Priority Document No	:19182700.5	(72)Name of Inventor : 1)VANDERPUTTEN, Joris
(32) Priority Date	:26/06/2019	2)VERHEYEN, Jozef
(33) Name of priority country	:EPO	3)SCHOETERS, Kris
(86) International Application No	:PCT/EP2020/068048	4)WALTER, Nicolas
Filing Date	:26/06/2020	5)KOLBE, Sven
(87) International Publication No	:WO/2020/260600	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention pertains to a system for continuous processing of powder, comprising a first inlet for a first dry powder, a second inlet for a second dry powder, and a powder mixing device for continuously providing a product mixture from the first and second powder, wherein the powder mixing device comprises an outlet for the product mixture, a production machine, wherein the production machine comprises a powder feed frame with a feed frame inlet, being connected with the outlet of the powder mixing device, and an outlet, wherein the outlet of the powder mixing device is positioned at a lower level than the feed frame inlet of the production machine, and a product conveying device is positioned in the connection between the outlet of the powder mixing device and the feed frame inlet of the production machine, said product conveying device conveying the product mixture to the feed frame inlet of the production machine. The invention also pertains to a method for processing powder.

No. of Pages : 31 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057149 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PHARMACEUTICAL FORMULATIONS OF BI-SPECIFIC DIABODIES AND USE OF THE SAME

(51) International classification	:C07K0016280000, A61K0039000000, A61K0047180000, A61K0047020000, A61K0047260000	(71)Name of Applicant : 1)MACROGENICS, INC Address of Applicant :9704 Medical Center Drive Rockville, MD 20850 U.S.A.
(31) Priority Document No	:62/860082	(72)Name of Inventor :
(32) Priority Date	:11/06/2019	1)LENT, Ian
(33) Name of priority country	:U.S.A.	2)SAMPATHKUMAR, Krishnan
(86) International Application No	:PCT/US2020/035143	
Filing Date	:29/05/2020	
(87) International Publication No	:WO/2020/251781	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is directed to stable aqueous pharmaceutical formulations that comprise a bispecific monovalent diabody (Diabody formulation), and to aqueous stabilizer solutions for stabilizing and administering said diabody. The invention particularly concerns such pharmaceutical formulations that comprise a diabody drug product (DART- A DP formulations) that comprise a sequence-optimized CD 123 x CDS bispecific diabody (DART- A) that is capable of simultaneously binding to CD 123 and CDS. The invention further concerns the use of such DART- A DP formulations in the treatment of hematologic malignancies such as acute myeloid leukemia (AML) or myelodysplastic syndrome (MDS) in patients.

No. of Pages : 144 No. of Claims : 129

(54) Title of the invention : RRC RECONFIGURATIONS DURING CONDITIONAL HANDOVER

(51) International classification	:H04W0036000000, H04N0019440000, B23K0103000000, G06F0021600000, G06F0016280000	(71)Name of Applicant : 1)NOKIA TECHNOLOGIES OY Address of Applicant :Karaportti 3 02610 Espoo Finland
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)VIERING, Ingo
(33) Name of priority country	:NA	2)KORDYBACH, Krzysztof
(86) International Application No	:PCT/EP2019/067103	3)HENTTONEN, Tero
Filing Date	:27/06/2019	4)AWADA, Ahmad
(87) International Publication No	:WO/2020/259836	5)DECARREAU, Guillaume
(61) Patent of Addition to Application Number	:NA	6)STANCZAK, Jedrzej
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

It is provided a method comprising monitoring if a source cell intends performing a radio reconfiguration of a terminal configured with a conditional handover from the source cell to a target cell; determining a determined category among plural predetermined categories; wherein the radio reconfiguration is associated to the determined category; for each category a respective predetermined sequence of one or more operations is defined; the respective predetermined of one of the categories is different from the respective predetermined sequence of another one of the categories; and the method further comprises inhibiting the performing of the radio reconfiguration of the terminal unless the predetermined sequence of one or more operations of the determined category is performed along with the performing of the radio reconfiguration if the source cell intends performing the radio reconfiguration of the terminal.

No. of Pages : 19 No. of Claims : 22

(54) Title of the invention : ROTATABLE ELEMENT IN MACHINE TRACK HAVING THRUST WASHER STACK FOR STEPPING DOWN RELATIVE SPEEDS

(51) International classification	:F16C0017040000, F16C0033100000, B62D0055150000, F16C0017100000, B62D0055088000	(71) Name of Applicant : 1)CATERPILLAR INC. Address of Applicant :100 NE Adams Street Peoria, Illinois 61629-9510 U.S.A.
(31) Priority Document No	:16/436209	(72) Name of Inventor :
(32) Priority Date	:10/06/2019	1)ABELLO, Benoit
(33) Name of priority country	:U.S.A.	2)PALTHEY-GLOMEAU, Paul
(86) International Application No	:PCT/US2020/033346	3)LOEFFLER, Brian
Filing Date	:18/05/2020	4)HAKES, David Jennings
(87) International Publication No	:WO/2020/251726	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A sealed and lubricated rotatable track engaging element (130) includes a roller (32) and a roller shaft (38) extending through the roller (32) to support the roller (32) for rotation about a major axis (36). A first thrust surface (46) is fixed relative to the roller (32), and a second thrust surface (48) is fixed relative to the roller shaft (38). A seal cavity (44) extends between the roller (32) and the roller shaft (38) and is formed in part by each of the first thrust surface (46) and the second thrust surface (48), and a thrust washer stack (50) is within the seal cavity (44) and trapped between the first thrust surface (46) and the second thrust surface (48). The thrust washer stack (50) includes an inner thrust washer contacting the roller (32) to rotate at a first fractional speed of a speed of rotation of the roller (32), and an outer thrust washer contacting the inner thrust washer and the collar (68) to rotate at a second fractional speed that is less than the first fractional speed.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057158 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : POLYETHYLENE BLEND

(51) International classification	:C08L0023080000, C08L0023060000, C08J0005180000, B32B0027320000, B29K0023000000
(31) Priority Document No	:62/859447
(32) Priority Date	:10/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/034803
Filing Date	:28/05/2020
(87) International Publication No	:WO/2020/251764
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)UNIVATION TECHNOLOGIES, LLC

Address of Applicant :5555 San Felipe, Suite 700 Houston, Texas 77056 U.S.A.

(72)Name of Inventor :

1)BORSE, Nitin

2)CHANDAK, Swapnil B.

(57) Abstract :

A polyethylene blend that has an improved stretch break property and is useful for stretch wrap film applications. The polyethylene blend consists essentially of approximately 98 weight percent (wt%) of a linear low-density polyethylene (LLDPE) component and approximately 2 wt% of a higher molecular weight high-density polyethylene polymer (HMW HDPE) component, based on the combined weight of the LLDPE and HMW HDPE components. Also, a method of making the polyethylene blend, a formulation comprising the polyethylene blend and at least one additive that is different than the polyethylene blend, a method of making a manufactured article from the polyethylene blend or formulation; the manufactured article made thereby, and use of the polyethylene blend for stretch wrapping object(s) in need thereof.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057164 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : EXTRUDER SCREW HANDLING DEVICE

(51) International classification	:B29C0048030000, B29C0048505000, B29C0048265000, B29C0048920000, A23P0030200000	(71)Name of Applicant : 1)BÜHLER AG Address of Applicant :Gupfenstrasse 5 9240 Uzwil Switzerland
(31) Priority Document No	:PCT/CN2019/090752	(72)Name of Inventor :
(32) Priority Date	:11/06/2019	1)KRISCHE, Andreas
(33) Name of priority country	:EPO	2)VENKATESH, Manjunatha Mutaguppe
(86) International Application No	:PCT/EP2020/066165	
Filing Date	:11/06/2020	
(87) International Publication No	:WO/2020/249658	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is related to an extruder screw-handling device (1) for handling a screw (15) of a food or land-or-sea- animal-feed extruder (14), said device being suitable for fully extracting an extruder screw (15) from an extruder barrel, wherein the device (1) has a horizontally arranged top section (8), a locking screw assembly (12) and a guiding element (11). The present invention is furthermore related to a method of extracting an extruder screw (15) from a food or land-or-sea- animal-feed extruder (14) using said device (1).

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057167 A

(19) INDIA

(22) Date of filing of Application :08/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SECONDARY BATTERY AND DEVICE CONTAINING SAME

(51) International classification	:H01M0010052500, H01M0004587000, H01M0004133000, H01M0004360000, H01M0004020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2019/123729
Filing Date	:06/12/2019
(87) International Publication No	:WO/2021/109133
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED

Address of Applicant :No.2 Xin'gang Road, Zhangwan Town
Jiaocheng District Ningde, Fujian 352100 China

(72)Name of Inventor :

1)KANG, Meng

2)DONG, Xiaobin

3)WANG, Jiazheng

4)HE, Libing

(57) Abstract :

A secondary battery (5) and a device containing the same, wherein the secondary battery (5) comprises a negative electrode piece, the negative electrode piece comprises a negative electrode current collector and a negative electrode film layer, the negative electrode film layer comprises a first negative electrode film layer and a second negative electrode film layer, the first negative electrode film layer is arranged on at least one surface of the negative electrode current collector and contains a first negative electrode active material, and the second negative electrode film layer is arranged on the first negative electrode film layer and contains a second negative electrode active material; the first negative electrode active material comprises natural graphite, the second negative electrode active material comprises artificial graphite; the first negative electrode active material satisfies: $4.0 = COI_1 = 7.0$; and the second negative electrode active material satisfies: $2.2 = COI_2 = 4.2$. The secondary battery (5) has both better fast charging performance and cycling performance on the premise of having a higher energy density.

No. of Pages : 23 No. of Claims : 12

(54) Title of the invention : PASSIVELY-ALIGNED FIBER ARRAY TO WAVEGUIDE CONFIGURATION

(51) International classification	:G02B0006420000, G02B0006360000, G02B0006380000, G02B0006300000, G02B0006122000	(71)Name of Applicant : 1)AAYUNA INC. Address of Applicant :7540 Windsor Drive Suite 306 Allentown, Pennsylvania 18106 U.S.A.
(31) Priority Document No	:62/862199	(72)Name of Inventor :
(32) Priority Date	:17/06/2019	1)SHASTRI, Kalpendu
(33) Name of priority country	:U.S.A.	2)SHASTRI, Anujit
(86) International Application No	:PCT/US2020/037602	3)PATHAK, Soham
Filing Date	:12/06/2020	4)DAMA, Bipin, D.
(87) International Publication No	:WO/2020/257080	5)LEONHARTSBERGER, Alan
(61) Patent of Addition to Application Number	:NA	6)DAVE, Rutvij
Filing Date	:NA	7)YELAMARTY, Rao
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Passive alignment and connection between a fiber array and a plurality of optical waveguides terminating along an edge of a photonic IC is provided by a controlled mating between V-grooves formed in a fiber support substrate and alignment ridges formed to surround waveguide terminations along an edge of a photonic IC. The V-grooves of the fiber support substrate are spaced to define the same pitch as the waveguides on the photonic IC, with the height and width of the alignment ridges formed to engage with the V-grooves upon mating of the fiber support substrate with the photonic IC. The individual fibers are positioned within associated V-grooves such that their endfaces are retracted from a proximal end portion of the support structure. It is this proximal end portion that mates with the alignment ridges on the photonic IC.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057206 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : HIGH TEMPERATURE CARBON BLACK AIR PREHEATER

(51) International classification	:C07K0016240000, A61K0039000000, C01B0032162000, C08K0003040000, C02F0001000000	(71)Name of Applicant : 1)BIRLA CARBON U.S.A., INC. Address of Applicant :1800 West Oak Commons Court Marietta, GA 30062 U.S.A.
(31) Priority Document No	:62/857776	(72)Name of Inventor :
(32) Priority Date	:05/06/2019	1)WILEY, Charles, Schenck
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2020/036484	
Filing Date	:05/06/2020	
(87) International Publication No	:WO/2020/247862	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

High temperature carbon black air preheater and materials useful in the design and construction thereof.

No. of Pages : 21 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057215 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PHENYLAMINOPYRIMIDINE AMIDE AUTOPHAGY INHIBITORS AND METHODS OF USE THEREOF

(51) International classification	:A61K0045060000, A61P0037000000, A61P0035000000, A61P0031000000, A61K0009000000	(71)Name of Applicant : 1)DECIPHERA PHARMACEUTICALS, LLC Address of Applicant :200 Smith Street Waltham, MA 02451 U.S.A.
(31) Priority Document No	:62/846258	(72)Name of Inventor :
(32) Priority Date	:10/05/2019	1)FLYNN, Daniel, L.
(33) Name of priority country	:U.S.A.	2)AHN, Yu, Mi
(86) International Application No	:PCT/US2020/032087	3)CALDWELL, Timothy
Filing Date	:08/05/2020	4)VOGETI, Lakshminarayana
(87) International Publication No	:WO/2020/231806	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein are compounds that are inhibitors of autophagy and their use in the treatment of disorders such as cancers.

No. of Pages : 199 No. of Claims : 102

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057218 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : DISPLAY DEVICE AND MANUFACTURING METHOD THEREFOR

(51) International classification	:H01L0051520000, H01L0051000000, H01L0027320000, H01L0023000000, H01L0027150000
(31) Priority Document No	:10-2019-0074111
(32) Priority Date	:21/06/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2020/003401
Filing Date	:11/03/2020
(87) International Publication No	:WO/2020/256256
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)SAMSUNG DISPLAY CO., LTD.

Address of Applicant :1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do 17113 Republic of Korea

(72)Name of Inventor :

1)AN, Moon Jung

2)LEE, Dong Eon

(57) Abstract :

A display device and a method for manufacturing the display device are provided. The display device comprises: a substrate; a light emitting element disposed on the substrate and including a first end portion including a first surface and a second end portion including a second surface parallel to the first surface; an organic pattern covering the light emitting device and exposing the first and second surfaces; a first electrode provided on the substrate and in contact with the first end portion; and a second electrode provided on the substrate, spaced apart from the first electrode and in contact with the second end portion, wherein the area of the first surface is smaller than the area of the second surface, and the upper surface of the organic pattern is curved. According to embodiments of the present invention, a display device, in which it is possible to arrange light-emitting elements in a desired shape by using a gravure offset printing method, and a method for manufacturing same can be provided.

No. of Pages : 50 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057223 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : MADCAM TARGETED IMMUNOTOLERANCE

(51) International classification :C07K0016280000,
C07K0014705000,
C07C0203040000,
A61K0031474100,
A61P0037060000

(31) Priority Document No :62/850172
(32) Priority Date :20/05/2019
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2020/033707
Filing Date :20/05/2020
(87) International Publication No :WO/2020/236875
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PANDION OPERATIONS, INC.
Address of Applicant :134 Coolidge Avenue 2nd Floor
Watertown, Massachusetts 02472 U.S.A.

(72)Name of Inventor :
1)HIGGINSON-SCOTT, Nathan
2)VINEY, Joanne, L.
3)OTIPOBY, Kevin Lewis
4)VISWESWARAIAH, Jyothsna
5)ALIOTO, Salvatore
6)EDWARDS, Lindsay, J.
7)SAMPSON, Erik
8)GLANVILLE, Jacob
9)MAURER, David
10)IVES, Sarah
11)PETTUS, Christina
12)SCHWIMMER, Lauren

(57) Abstract :

Methods and compounds for conferring site-specific or local immune privilege, such as targeting to a cell expressing MAdCAM. Disclosed herein are methods and therapeutic compounds that provide site-specific immune privilege. In some embodiments, the therapeutic compound comprises an engineered multi-specific compound, e.g., an engineered bi-specific molecule, e.g., an engineered bi-specific antibody molecule.

No. of Pages : 239 No. of Claims : 116

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057224 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : HETEROARYLAMINOPYRIMIDINE AMIDE AUTOPHAGY INHIBITORS AND METHODS OF USE THEREOF

(51) International classification	:A61K0045060000, A61P0037000000, A61P0035000000, A61P0031000000, A61K0009000000	(71)Name of Applicant : 1)DECIPHERA PHARMACEUTICALS, LLC Address of Applicant :200 Smith Street Waltham, MA 02451 U.S.A.
(31) Priority Document No	:62/846260	(72)Name of Inventor :
(32) Priority Date	:10/05/2019	1)FLYNN, Daniel, L.
(33) Name of priority country	:U.S.A.	2)AHN, Yu Mi
(86) International Application No	:PCT/US2020/032090	3)CALDWELL, Timothy
Filing Date	:08/05/2020	4)VOGETI, Lakshminarayana
(87) International Publication No	:WO/2020/231808	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described herein are compounds that are inhibitors of autophagy and their use in the treatment of disorders such as cancers. (I)

No. of Pages : 191 No. of Claims : 90

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057229 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESSES AND INTERMEDIATES FOR PREPARING A BTK INHIBITOR

(51) International classification	:A61K0031519000, C07D0487040000, C07D0303160000, C07C0069757000, C07D0401040000	(71)Name of Applicant : 1)JANSSEN PHARMACEUTICA NV Address of Applicant :Turnhoutseweg 30 2340 Beerse Belgium
(31) Priority Document No	:PCT/CN2019/087804	(72)Name of Inventor :
(32) Priority Date	:21/05/2019	1)PYE, Philip, James
(33) Name of priority country	:China	2)HORVATH, Andras
(86) International Application No	:PCT/EP2020/064119	3)LEFORT, Laurent
Filing Date	:20/05/2020	4)KAPTEIN, Bernardus
(87) International Publication No	:WO/2020/234379	5)VERZIJJ, Gerardus, Karel, Maria
(61) Patent of Addition to Application Number	:NA	6)YUAN, Yuanyuan
Filing Date	:NA	7)SU, Jinxiong
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a process for the preparation of certain intermediates, e.g. process for preparing a compound of formula (I) or a pharmaceutically acceptable salt thereof, in an enantioenriched form, which intermediate and processes are useful in the preparation of a BTK inhibitor, such as ibrutinib.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057230 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : BATTERY MODULE HAVING FLAME DISCHARGING-PREVENTION STRUCTURE, BATTERY PACK COMPRISING SAME, VEHICLE, AND POWER STORAGE SYSTEM

(51) International classification	:H01M0002120000, H01M0002100000, H01M0002360000, H01M0010655100, D06F0029000000	(71)Name of Applicant : 1)LG ENERGY SOLUTION, LTD. Address of Applicant :Tower 1, 108, Yeoui-daero, Yeongdeungpo-gu, Seoul 07335 Republic of Korea
(31) Priority Document No	:10-2020-0046950	(72)Name of Inventor :
(32) Priority Date	:17/04/2020	1)RYU, Sang-Woo
(33) Name of priority country	:Republic of Korea	2)CHOI, Jee-Soon
(86) International Application No	:PCT/KR2020/015156	3)KANG, Dal-Mo
Filing Date	:02/11/2020	4)CHOI, Yong-Seok
(87) International Publication No	:WO/2021/210744	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A battery module according to an embodiment of the present invention comprises: a sub-module including a plurality of battery cells; a lower housing which receives the sub-module therein and has an opening; a first housing cover which covers the opening of the lower housing, is connected to the lower housing, and includes a gas inlet; a second housing cover which is coupled to the first housing cover from the upper side of the first housing cover to form a gas-receiving space between the first housing cover and the second housing cover and includes a gas outlet; and a variable partition structure utilizing a hinge, wherein the variable partition structure is installed in and partitions the gas-receiving space to define a gas discharge path, thereby increasing the travel path of a flame introduced together with a gas generated in the sub-module and introduced into the gas-receiving space through the gas inlet.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057231 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD AND APPARATUS FOR ASSOCIATING A FIRST DEVICE WITH A SECOND DEVICE

(51) International classification	:H04L0029060000, H04W0012000000, H04W0012060000, G06F0021310000, G06F0021320000	(71)Name of Applicant : 1)INTERDIGITAL CE PATENT HOLDINGS Address of Applicant :3 rue du Colonel Moll 75017 Paris France
(31) Priority Document No	:19305766.8	(72)Name of Inventor :
(32) Priority Date	:14/06/2019	1)DEFRANCE, Serge
(33) Name of priority country	:EPO	2)LELIEVRE, Sylvain
(86) International Application No	:PCT/EP2020/065987	3)POREE, Corinne
Filing Date	:09/06/2020	
(87) International Publication No	:WO/2020/249568	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According to an embodiment, a first device may receive from a second device a message comprising an authentication element and credentials associating the second device with a user identifier. The first device may obtain a set of features based on data captured by a sensor of the first device when a user is near the sensor. The first device may associate the second device with the first device on a condition that is it determined by the first device that the authentication element is verified based on a verification element, that the credentials correspond to initial credentials associating the second device with the user identifier, and that the set of features matches an initial set of features, wherein the verification element, the initial credentials and the initial set of features may have been initially associated together in the first device.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057232 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR

(51) International classification	:A61F0002240000, A61B0017000000, A61B0005107000, A61L0027040000, A61B0017020000	(71)Name of Applicant : 1)EDWARDS LIFESCIENCES CORPORATION Address of Applicant :One Edwards Way Irvine, CA 92614 U.S.A.
(31) Priority Document No	:62/912828	(72)Name of Inventor :
(32) Priority Date	:09/10/2019	1)FRESCHAUF, Lauren, R.
(33) Name of priority country	:U.S.A.	2)DELGADO, Sergio
(86) International Application No	:PCT/US2020/052758	
Filing Date	:25/09/2020	
(87) International Publication No	:WO/2021/071682	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Example systems and valve repair devices for repairing a native valve of a patient includes a plurality of paddle portions. Each paddle portion can include an extendable portion that is extendable from a resting condition to an extended condition. These paddle portions are moveable between an open position and a closed position and are configured to attach to the native valve of the patient.

No. of Pages : 200 No. of Claims : 83

(54) Title of the invention : PHOTOPROTECTIVE SYSTEM CONSISTING OF 4 SUNSCREENS

(51) International classification	:A61Q0017040000, A61K0008490000, A61K0008370000, A61K0031419600, A61K0008350000	(71)Name of Applicant : 1)PIERRE FABRE DERMO-COSMETIQUE Address of Applicant :45, place Abel Gance 92100 BOULOGNE-BILLANCOURT France
(31) Priority Document No	:FR1904891	(72)Name of Inventor :
(32) Priority Date	:10/05/2019	1)PROVOST, Roxane
(33) Name of priority country	:France	2)PAULET, Stéphanie
(86) International Application No	:PCT/EP2020/063081	3)DROMIGNY, Hélène
Filing Date	:11/05/2020	4)PERIER, Valérie
(87) International Publication No	:WO/2020/229425	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a cosmetic or pharmaceutical composition comprising at least one cosmetically or pharmaceutically acceptable excipient and a photoprotective system consisting of: (a) 5,6,5',6'-tetraphenyl-3,3'-(1,4-phenylene)bis[1,2,4]triazine, (b) 2,4-bis[4-(2-ethylhexyloxy)-2-hydroxyphenyl]-6-(4-methoxyphenyl)-1,3,5-triazine, (c) hexyl 2-[4-(diethylamino)-2-hydroxybenzoyl]benzoate, and (d) a sunscreen selected from the group consisting of ethylhexyl triazone, diethylhexyl butamido triazone and 2-ethylhexyl salicylate, in which the photoprotective system represents between 4% and 20% by weight of the composition relative to the total weight of the composition.

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057262 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SLAG-CONTAINING POLYMER CONCRETE AND GROUTING MORTAR

(51) International classification	:C09D0175040000, C08L0097020000, C08L0063000000, C08L0075040000, B24D0011000000	(71)Name of Applicant : 1)SIKA TECHNOLOGY AG Address of Applicant :Zugerstrasse 50 6340 Baar Switzerland
(31) Priority Document No	:19177000.7	(72)Name of Inventor :
(32) Priority Date	:28/05/2019	1)KELCH, Steffen
(33) Name of priority country	:EPO	2)MAMIE, Tim
(86) International Application No	:PCT/EP2020/064821	3)MOSER, Thomas
Filing Date	:28/05/2020	4)VELTEN, Ulf
(87) International Publication No	:WO/2020/239900	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a curable binder composition comprising : a) at least one organic binder, selected from the group consisting of a1) epoxy resins and a2) polyisocyanates and polyols, and b) at least 50 wt.% slag, in relation to 100 wt.% binder composition.

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057264 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : IL-2 COMPOSITIONS AND METHODS OF USE THEREOF

(51) International classification	:A61K0038000000, C07K0014550000, G01N0033680000, A61K0038200000, A61K0047640000	(71)Name of Applicant : 1)PROVIVA THERAPEUTICS (HONG KONG) LIMITED Address of Applicant :Unit 417, 4th Floor, Lippo Centre Tower Two, No. 89, Queensway, Admiralty Hong Kong Hongkong(China)
(31) Priority Document No	:62/852768	(72)Name of Inventor :
(32) Priority Date	:24/05/2019	1)LI, Zijuan
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2020/034003	
Filing Date	:21/05/2020	
(87) International Publication No	:WO/2020/242884	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are activatable proproteins comprising at least two separate polypeptide chains, the first comprising IL-2 fused to a masking moiety and the second comprising an IL-2 binding protein fused to a masking moiety, and related pharmaceutical compositions and methods of use thereof.

No. of Pages : 83 No. of Claims : 68

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057265 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESSES AND INTERMEDIATES FOR THE PREPARATION OF 2-(2,6-DICHLOROPHENYL)-1-[(1S,3R)-3-(HYDROXYMETHYL)-5-(3-HYDROXY-3-METHYLBUTYL)-1-METHYL-3,4-DIHYDROISOQUINOLIN-2(1H)-YL]ETHENONE

(51) International classification	:H01L0021768000, H01L0021285000, H01L0029780000, C02F0001560000, C07D0213740000
(31) Priority Document No	:62/862805
(32) Priority Date	:18/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/037186
Filing Date	:11/06/2020
(87) International Publication No	:WO/2020/257043
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ELI LILLY AND COMPANY

Address of Applicant :Lilly Corporate Center Indianapolis,
Indiana 46206-6288 U.S.A.

(72)Name of Inventor :

1)COLE, Kevin Paul

2)KALLMAN, Neil John

3)MAGNUS, Nicholas Andrew

(57) Abstract :

The embodiments of present invention provide processes and intermediates for the preparation of D1 PAM I: Formula (I).

No. of Pages : 41 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057270 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEMS, METHODS, AND DEVICES FOR ALLEVIATING ERECTILE DYSFUNCTION

(51) International classification	:A61F0005410000, A61B0005026000, A61F0002260000, A61H0019000000, A61N0001050000	(71)Name of Applicant : 1)GIDDY HOLDINGS, INC. Address of Applicant :1114 E Cesar Chavez St. Austin, Texas 78702 U.S.A.
(31) Priority Document No	:62/846572	(72)Name of Inventor :
(32) Priority Date	:10/05/2019	1)JACOBSON, Brett
(33) Name of priority country	:U.S.A.	2)MILLER, Sebastian
(86) International Application No	:PCT/US2020/032021	
Filing Date	:08/05/2020	
(87) International Publication No	:WO/2020/231780	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are devices, systems, and methods configured to alleviate erectile dysfunction by more effectively preventing outwards blood flow away from the penis while more effectively allowing inward blood flow into the penis to aid in erection initiation, maintenance, and stamina. The disclosed geometry, configuration, flexibility, and pliability of the device enable its use on flaccid or erect penises. The disclosed system comprising the penile constriction device and a band enables the system to apply an adjustable compressive force on a flaccid or an erect penis.

No. of Pages : 100 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057277 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : COMPOSITIONS COMPRISING A BACTERIAL STRAIN LACTOBACILLUS PARACASEI AND HYALURONIC ACID AND THE USE THEREOF FOR THE TREATMENT OF THE SKIN

(51) International classification	:A61Q0019080000, A61Q0019000000, A61K0009000000, A61K0008730000, A61K0031728000	(71)Name of Applicant : 1)LAC2BIOME S.R.L. Address of Applicant :Via Ceresio, 7 20154 Milano (MI) Italy
(31) Priority Document No	:102019000008097	(72)Name of Inventor : 1)BIFFI, Andrea
(32) Priority Date	:05/06/2019	
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2020/055326	
Filing Date	:05/06/2020	
(87) International Publication No	:WO/2020/245797	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a composition comprising probiotics (live and viable or inactivated bacterial strains) and hyaluronic acid or a salt thereof for use in the prevention, in the treatment (therapeutic or cosmetic curative) or in the attenuation of at least one sign or symptom associated with, or caused by, an skin aging or by a reduction in the immune defences of the skin or by an inflammation/infection of the skin, such as an inflammation induced or caused by UV rays.

No. of Pages : 40 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057278 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : BATTERY MODULE

(51) International classification	:H01M0002100000, B60G0009000000, B62J0001120000, H01M0010655600, H01J0017490000
(31) Priority Document No	:10-2019-0153704
(32) Priority Date	:26/11/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2020/007929
Filing Date	:18/06/2020
(87) International Publication No	:WO/2021/107305
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)LG ENERGY SOLUTION, LTD.

Address of Applicant :Tower 1, 108, Yeoui-daero,
Yeongdeungpo-gu, Seoul 07335 Republic of Korea

(72)Name of Inventor :

1)JIN, Hee-Jun

2)KIM, Kyung-Woo

3)KIM, Kyung-Mo

4)MUN, Jeong-O

5)PARK, Jin-Yong

6)PARK, Jhin-Ha

7)CHI, Ho-June

(57) Abstract :

A battery module of the present invention comprises: a bottom plate which supports a cell stack; busbar frames which each have a bottom portion bent inward on the top surface of the bottom plate and are mounted at the front and rear of the cell stack, respectively; a thermally conductive resin which is applied in advance to the top surface of the bottom plate; and fence members each of which is provided at the end of the bottom portion of each of the busbar frames and is seated on the top surface of the bottom plate to prevent the thermally conductive resin from being lost.

No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057279 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : COPOLYMER AND HYDRAULIC BINDER COMPOSITION

(51) International classification	:C04B0028040000, C08F0251000000, C04B0024260000, C08F0285000000, D21H0021200000	(71)Name of Applicant : 1)COATEX Address of Applicant :35 rue Ampère 69730 GENAY France
(31) Priority Document No	:FR1906925	(72)Name of Inventor :
(32) Priority Date	:26/06/2019	1)MAGNY, Benoît
(33) Name of priority country	:France	2)MELAS, Michel
(86) International Application No	:PCT/FR2020/000190	3)PARRENIN, Laurie
Filing Date	:23/06/2020	4)SUAU, Jean-Marc
(87) International Publication No	:WO/2020/260776	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a copolymer obtained by a polymerization reaction using an anionic monomer and two polyethoxylated monomers. The invention also relates to a composition comprising said copolymer as well as to a process for its preparation and to its use as a superplasticizer for a hydraulic binder composition.

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057280 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : AUTOMATED CIRCUIT GENERATION

(51) International classification	:G06F0030300000, G06F0030360000, G06F0030398000, G06F0030367000, G06F0030390000	(71)Name of Applicant : 1)CELERA, INC. Address of Applicant :3031 Tisch Way, 110 Plaza West San Jose, California 95128 U.S.A.
(31) Priority Document No	:62/854848	(72)Name of Inventor :
(32) Priority Date	:30/05/2019	1)MACRAE, Calum
(33) Name of priority country	:U.S.A.	2)LOCASCIO, Jim
(86) International Application No	:PCT/US2020/034987	3)MASON, Karen
Filing Date	:28/05/2020	4)MASON, John
(87) International Publication No	:WO/2020/243355	5)PHILPOTT, Richard
(61) Patent of Addition to Application Number	:NA	6)HUSSAIN, Muhammed Abid
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Automated circuit generation is disclosed. In some embodiments, parameters are received and a circuit schematic is generated automatically by software. In some embodiment, parameters are received and a circuit layout is generated automatically by software. In some embodiments, a design interface may be used to create a behavioral model of a circuit. Software may generate a circuit specification to generate a schematic. In various embodiments, circuit component values may be determined and generated. Certain embodiments pertain to automating layout of circuits. Software may receive parameters for functional circuit components and generate a circuit schematic and/or a layout. The present techniques are particularly useful for automatically generating analog circuits.

No. of Pages : 175 No. of Claims : 344

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057281 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS AND SYSTEMS FOR FOLDED FRAME SOLAR PANELS

(51) International classification	:F24S0025200000, F24S0025130000, H02S0030100000, E04C0002380000, H01L0051000000
(31) Priority Document No	:62/921310
(32) Priority Date	:10/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/037092
Filing Date	:10/06/2020
(87) International Publication No	:WO/2020/252091
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)ORIGAMI SOLAR, INC.

Address of Applicant :1417 37th Street Sacramento, CA
95816 U.S.A. U.S.A.

(72)Name of Inventor :

1)PATTON, John C.

2)HAFTER, Eric

(57) Abstract :

Embodiments of the present invention may provide an elongated single piece of framework (59) which may be bent around a corner (46) perhaps for form an about 90 degree angle (61). An elongated single piece of framework (59) may have a first end (49) and a second end (50) which may be joined to each other or may be joined to other ends of a separate framework. A partial frame (48) or even a rectangular panel framework (3) may be created from at least one of an elongated single piece of framework which may frame a solar panel.

No. of Pages : 34 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057282 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : A METHOD OF CORRECTING A GEOMETRICALLY DISTORTED QR CODE

(51) International classification	:G01N0021030000, G01J0003280000, G01N0021840000, G16B0025000000, G06K0009460000	(71)Name of Applicant : 1)KUVIO AUTOMATION OY Address of Applicant :PL 306 40101 JYVÄSKYLÄ Finland
(31) Priority Document No	:20195512	(72)Name of Inventor : 1)MÖTTÖNEN, Keijo
(32) Priority Date	:14/06/2019	
(33) Name of priority country	:Finland	
(86) International Application No	:PCT/FI2020/050378	
Filing Date	:02/06/2020	
(87) International Publication No	:WO/2020/249856	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for correcting a geometrically distorted QR code (40) comprising a modular structure. The method comprises oversampling modules (41) of the QR code (40) by dividing each module (41) to FF sample elements (42) for forming an oversampling matrix, determining intensity for each sample element (42) in the oversampling matrix, calculating an average intensity of the oversampling matrix, subtracting the average intensity from intensity of each sample element (42) in the oversampling matrix, filtering intensity values for determining an average value for each sample element (42), tracking a sample element corresponding a center of each module (41) and determining color of each module (41) based on intensities of sample elements (42) corresponding the center of each module (41) by using recursion. The invention further relates to a computer program product and device (10) performing the method.

No. of Pages : 23 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057283 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESSES AND INTERMEDIATES FOR PREPARING A BTK INHIBITOR

(51) International classification	:A61K0031519000, C07D0487040000, C07D0401040000, C07C0045670000, C07C0231120000	(71)Name of Applicant : 1)JANSSEN PHARMACEUTICA NV Address of Applicant :Turnhoutseweg 30 2340 Beerse Belgium
(31) Priority Document No	:PCT/CN2019/087823	(72)Name of Inventor :
(32) Priority Date	:21/05/2019	1)PYE, Philip, James
(33) Name of priority country	:China	2)HORVATH, Andras
(86) International Application No	:PCT/EP2020/064123	3)CHEN, Cheng, Yi
Filing Date	:20/05/2020	4)YUAN, Yuanyuan
(87) International Publication No	:WO/2020/234381	5)SU, Jinxiong
(61) Patent of Addition to Application Number	:NA	6)WANG, Shuo
Filing Date	:NA	7)WAGSCHAL, Simon, Albert
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a process for the preparation of certain intermediates, e.g. a process for preparing a compound of formula (I) wherein, R1, R2 and X1 are as defined in the description, and which intermediate and processes are useful in the preparation of a BTK inhibitor, such as ibrutinib.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : LOW SULPHUR FUEL BLEND OF HYDROCARBON CONTAINING FUELS AND METHOD FOR PRODUCING SUCH BLEND

(51) International classification	:C10L0001160000, C10L0001040000, C10L0001080000, C10L0001182000, C10G0065120000	(71)Name of Applicant : 1)STEEPER ENERGY APS Address of Applicant :Frydenlundsvej 30, B, 1.tv 2950 Vedbæk Denmark
(31) Priority Document No	:PA 2019 00581	(72)Name of Inventor :
(32) Priority Date	:15/05/2019	1)IVERSEN, Steen, Brummerstedt
(33) Name of priority country	:Denmark	2)GUERRERO, Julie Katerine Rodriguez
(86) International Application No	:PCT/EP2020/025222	
Filing Date	:15/05/2020	
(87) International Publication No	:WO/2020/228990	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a low sulphur fuel blend of a first fuel blend component containing renewable hydrocarbon component(-s) and a second fuel blend component containing hydrocarbon to form at least part of a final low sulphur fuel blend having a sulphur content of less than 0,5 wt.%, where the first fuel blend component is characterised by having the characteristics (dd1, d1, dh1) = (17-20, 6-10, 6-10); where the first fuel blend component comprises a fuel substance comprising 70 % by weight of compounds having a boiling point above 220 °C and is further characterized by having the characteristics (dd, d, dh) = (17-20, 6-15, 6-12) and a linker substance comprising one or more sulphur containing solvents characterised by having the characteristics (dd3,d3, dh3)= (17-20, 3-6, 4-6); where the fuel substance is present in the first fuel blend component in a relative amount of 90-99,5 wt.%, and the linker substance is present in the first fuel blend component in a relative amount of 0.5 to 10 wt.%; where the second fuel blend component is characterised by having the characteristics (dd2, d2, dh2) = (17-20, 3-5, 4-7) and selected from the group of ultra low sulfur fuel oils (ULSFO) such as RMG 180, low sulphur fuel oil, marine gas oil, marine diesel oil, vacuum gas oil, and combinations thereof, where the first fuel blend component is present in the final low sulphur fuel blend in a relative amount of up to 80 wt.%.

No. of Pages : 45 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057288 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : HEART VALVE SEALING DEVICES AND DELIVERY DEVICES THEREFOR

(51) International classification	:A61F0002240000, A61B0017000000, A61B0017040000, A61B0017340000, A61M0025040000
(31) Priority Document No	:62/908538
(32) Priority Date	:30/09/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/051300
Filing Date	:17/09/2020
(87) International Publication No	:WO/2021/067043
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)EDWARDS LIFESCIENCES CORPORATION
Address of Applicant :One Edwards Way Irvine, CA 92614
U.S.A.

(72)Name of Inventor :
1)FRESCHAUF, Lauren, R.
2)OBERWISE, Eric, Michael

(57) Abstract :

Example valve repair devices for repairing a native valve of a patient include expandable coaption portions. One coaption portion has an opening and an expandable portion that is configured to expand outward through the opening. An actuation element or actuation member engages the expandable portion to expand and retract the expandable portion. Another expandable coaption portion has a central shaft, an actuation tube, and an expandable spacer. A first end of the expandable spacer is secured to the central shaft. A second end of the expandable spacer is secured to the locking tube. Rotation of the actuation tube relative to the central shaft causes the expandable spacer to expand.

No. of Pages : 205 No. of Claims : 90

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057305 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ELECTRONIC DEVICE AND METHOD OF UTILIZING STORAGE SPACE THEREOF

(51) International classification	:G06F0003060000, G06F0012020000, H04N0021222000, H04N0021426000, H04N0021414700	(71)Name of Applicant : 1)SAMSUNG ELECTRONICS CO., LTD. Address of Applicant :129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do 16677 Republic of Korea
(31) Priority Document No	:10-2019-0069161	(72)Name of Inventor :
(32) Priority Date	:12/06/2019	1)JUNG, Wonsuk
(33) Name of priority country	:Republic of Korea	2)LEE, Junwoo
(86) International Application No	:PCT/KR2020/006801	3)JANG, Jintae
Filing Date	:26/05/2020	
(87) International Publication No	:WO/2020/251192	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The various embodiments disclose an electronic device including: a storage including a non-volatile memory having a buffer space and a storage space, a storage device controller, and a storage interface, and a processor. According to various embodiments, the processor may be configured to perform control to determine whether the storage supports a high speed data storage mode using a buffer space of a non-volatile memory of the storage, activate a function of writing data buffered in the buffer space of the non-volatile memory into a storage space of the non-volatile memory based on the storage interface operating in a first state based on the storage supporting the high speed data storage mode, and transition the storage interface of the storage to the first state based on no request to the storage being generated during a predetermined time period based on the storage interface operating in a second state.

No. of Pages : 33 No. of Claims : 15

(54) Title of the invention : A DEVICE FOR DETERMINING BEDBUG ACTIVITY AND A METHOD FOR DETECTION OF BEDBUGS

(51) International classification	:A01M0001020000, A01M0001140000, A01M0001200000, A01M0001100000, G08B0013240000	(71)Name of Applicant : 1)IOT TELLTALES AB Address of Applicant :c/o Leobert Buis Gåsövägen 16 133 37 Saltjöbaden Sweden
(31) Priority Document No	:1930231-4	(72)Name of Inventor : 1)BUIS, Leobert William
(32) Priority Date	:28/06/2019	
(33) Name of priority country	:Sweden	
(86) International Application No	:PCT/SE2020/050655	
Filing Date	:24/06/2020	
(87) International Publication No	:WO/2020/263167	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A device (10) for determining bedbug activity comprises a housing (11) with openings (13), an insect detection zone (42) and pathways through the housing (11) that are traversing the insect detection zone (42). The device (10) has a light emitter (83) configured to direct light through the insect detection zone (42), an optical sensor (84) and a control unit. The light emitter (83) and the optical sensor (84) are arranged at a proximal end (43) of the insect detection zone (42) and a reflective surface is arranged at a distal end (44) of the insect detection zone (42). The optical sensor (84) is configured to receive light from the light emitter (83) via the reflective surface. The control unit controls the light emitter (83), the optical sensor (84) and the detection of bedbugs passing through the insect detection zone (42). A method for detection of bedbugs are presented.

No. of Pages : 11 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057309 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : BLEND OF HYDROCARBON CONTAINING FOSSIL AND RENEWABLE COMPONENTS AND METHOD FOR PRODUCING SUCH BLEND

(51) International classification	:C08L0023060000, C10L0001080000, C08L0023080000, B32B0027320000, C10G0003000000	(71)Name of Applicant : 1)STEEPER ENERGY APS Address of Applicant :Frydeniundsvej 30, B, 1.tv 2950 Vedbæk Denmark
(31) Priority Document No	:PA 2019 00582	(72)Name of Inventor :
(32) Priority Date	:15/05/2019	1)IVERSEN, Steen Brummerstedt
(33) Name of priority country	:Denmark	2)GUERRERO, Julie Katerine Rodriguez
(86) International Application No	:PCT/EP2020/025223	
Filing Date	:15/05/2020	
(87) International Publication No	:WO/2020/228991	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a hydrocarbon blend for input to a refinery and comprising a first blend component containing a renewable hydrocarbon component and a second blend component containing petroleum derived hydrocarbon to form at least part of a final hydrocarbon blend for processing in a refinery where the first blend component is characterized by comprising a hydrocarbon substance with at least 70 % by weight having a boiling point above 220 °C and by having the characteristics (dd1, d1, dh1) = (17-20, 6-12, 6-12) and; where the second blend component is characterised by having the characteristics (d2, d2, dh2) = (17-20, 3-5, 4-7), where the first blend component is present in the final hydrocarbon blend in a relative amount of up to 80 wt %.

No. of Pages : 44 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057328 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PROCESS FOR CONCENTRATING AMINE WATER

(51) International classification	:B01D0061360000, C02F0001440000, B01D0053140000, H05K0003460000, C10G0001020000	(71)Name of Applicant : 1)ENI S.P.A. Address of Applicant :Piazzale Enrico Mattei, 1 00144 Roma Italy
(31) Priority Document No	:102019000009207	(72)Name of Inventor :
(32) Priority Date	:17/06/2019	1)TAGLIABUE, Marco
(33) Name of priority country	:Italy	2)CATTANEO, Claudia
(86) International Application No	:PCT/IB2020/055655	3)COMITE, Antonio
Filing Date	:17/06/2020	
(87) International Publication No	:WO/2020/254986	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for concentrating amine water by dehydrating it through membrane distillation at a temperature ranging from 30°C to 95°C and at a pressure ranging from 1.0 bar to 1.5 absolute bar.

No. of Pages : 21 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057329 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR

(51) International classification	:H04N0019174000, H04N0019700000, H04N0019119000, H04N0019107000, H04N0019460000
(31) Priority Document No	:10-2019-0124956
(32) Priority Date	:09/10/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2020/013796
Filing Date	:08/10/2020
(87) International Publication No	:WO/2021/071313
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)APPLE INC.

Address of Applicant :One Apple Park Way Cupertino
California 95014 United States of America U.S.A.

(72)Name of Inventor :

1)LEE, Bae Keun

(57) Abstract :

A video decoding method according to the present invention may comprise the steps of: partitioning the current picture into a plurality of tiles; decoding partitioning information indicating a slice type, wherein the partitioning information indicates whether a rectangular slice is applied; and if the partitioning information indicates that the rectangular slice is applied, decoding first width information and first height information of the slice.

No. of Pages : 132 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057331 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : PLANT INSPECTION METHOD AND PLANT REPAIRING METHOD

(51) International classification	:F28F0009020000, F28D0001053000, G01N0029040000, G06T0007000000, G01L0009000000	(71)Name of Applicant : 1)MITSUBISHI HEAVY INDUSTRIES, LTD. Address of Applicant :2-3, Marunouchi 3-Chome, Chiyoda-ku, Tokyo 1008332 Japan
(31) Priority Document No	:2019-121199	(72)Name of Inventor :
(32) Priority Date	:28/06/2019	1)TOKIYOSHI, Takumi
(33) Name of priority country	:Japan	2)KOMAI, Nobuyoshi
(86) International Application No	:PCT/JP2020/024565	3)HONDA, Masaki
Filing Date	:23/06/2020	4)URATA, Mikiyasu
(87) International Publication No	:WO/2020/262364	5)KATAFUCHI, Hiroki
(61) Patent of Addition to Application Number	:NA	6)HONDA, Takashi
Filing Date	:NA	7)TOMINAGA, Kimihiko
(62) Divisional to Application Number	:NA	8)SHIMODA, Junji
Filing Date	:NA	

(57) Abstract :

The plant inspection method according to one embodiment of the present invention is for inspecting a plant including a pipe base and a header having formed therein a pipe base hole through which said pipe base is attached, the method comprising: a step for selecting an inspection region from among one or more candidate inspection regions that include an area, inside a base material of the header, shifted in the axial direction of the header from an inner wall surface of the pipe base hole; and a step for performing flaw inspection on the inspection region.

No. of Pages : 47 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057332 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : HIGH-STRENGTH HOT-ROLLED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification	:C22C0038060000, C22C0038020000, C21D0008020000, C21D0009460000, C22C0038000000
(31) Priority Document No	:2019-110837
(32) Priority Date	:14/06/2019
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2020/021621
Filing Date	:01/06/2020
(87) International Publication No	:WO/2020/250735
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)JFE STEEL CORPORATION

Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100011 Japan

(72)Name of Inventor :

1)YAMAZAKI Kazuhiko

2)DOAN Thihuyen

(57) Abstract :

Provided is a high-strength hot-rolled steel sheet having excellent fatigue characteristics and roughening resistance in punching. The steel sheet has a tensile strength of 1180 MPa or greater and an Ra of 2.00 μm or less. The component composition of the steel sheet contains 0.09-0.20% C, 0.2-2.0% Si, 1.0-3.0% Mn, no more than 0.100% P, no more than 0.0100% S, 0.01-2.00% Al, no more than 0.010% N, 0.001% to less than 0.030% Ti, and 0.0005-0.0200% B, and furthermore contains 0.10-1.50% Cr, etc. An upper bainite phase as the main phase has an area ratio of 50% to less than 90% and an average grain diameter of 12.0 μm or less. A second phase is a residual austenite phase or the like having an area ratio of 10% to less than 50%, and the circumference of second phases having a circle equivalent diameter of 0.5 μm or greater is 300,000 $\mu\text{m}/\text{mm}^2$ or greater.

No. of Pages : 68 No. of Claims : 7

(54) Title of the invention : METHOD FOR GENERATING QUALITY PREDICTION MODEL, QUALITY PREDICTION MODEL, QUALITY PREDICTION METHOD, METHOD FOR MANUFACTURING METAL MATERIAL, DEVICE FOR GENERATING QUALITY PREDICTION MODEL, AND QUALITY PREDICTION DEVICE

(51) International classification	:G05B0023020000, C21D0009460000, G06Q0050040000, G06Q0030020000, G06Q0010040000	(71) Name of Applicant : 1)JFE STEEL CORPORATION Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100011 Japan
(31) Priority Document No	:2019-134701	(72) Name of Inventor :
(32) Priority Date	:22/07/2019	1)SHIGEMORI, Hiroyasu
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2020/022637	
Filing Date	:09/06/2020	
(87) International Publication No	:WO/2021/014804	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for generating a quality prediction model for a metal material that is manufactured by one or more processes, said method including: a first collection step for collecting manufacturing conditions for each process for a prescribed range of a predetermined metal material; a second collection step for evaluating and collecting, for each prescribed range, the quality of the metal material manufactured by each process; a saving step for associating with each other the manufacturing conditions for each process and the quality of the metal material manufactured under these conditions, for each prescribed range, and saving the associated information; and a model generation step for generating a quality prediction model for predicting the quality of the metal material for each prescribed range from the saved manufacturing conditions for each prescribed range in each process.

No. of Pages : 28 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057336 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : TERMINAL AND WIRELESS COMMUNICATION METHOD

(51) International classification	:H04W0052140000, H04W0072040000, H04W0052360000, H04W0052240000, H04W0052320000	(71)Name of Applicant : 1)NTT DOCOMO, INC. Address of Applicant :11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 1006150 Japan
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)MATSUMURA, Yuki
(33) Name of priority country	:NA	2)NAGATA, Satoshi
(86) International Application No	:PCT/JP2019/023587	
Filing Date	:13/06/2019	
(87) International Publication No	:WO/2020/250404	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A terminal according to one embodiment of the present disclosure comprises a control unit for determining a power control parameter for a physical uplink shared channel (PUSCH) on the basis of reception of a control element for media access control (MAC CE), and a transmission unit for transmitting the PUSCH using transmission power based on the power control parameter. According to one embodiment of the present disclosure, it is possible to appropriately determine a parameter for transmission power control.

No. of Pages : 88 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057337 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : BENZOTRIAZOLE DERIVATIVE

(51) International classification :C07D0498040000,
C07D0417140000,
A61P0043000000,
C07D0409040000,
A61K0031454500
(31) Priority Document No :2019-102529
(32) Priority Date :31/05/2019
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2020/021426
Filing Date :29/05/2020
(87) International Publication No :WO/2020/241853
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)UBE INDUSTRIES, LTD.

Address of Applicant :1978-96, Oaza Kogushi, Ube-shi,
Yamaguchi 7558633 Japan

(72)Name of Inventor :

1)KOMORI, Ken-ichi

2)NISHIYAMA, Hayato

3)KINOSHITA, Naoya

4)WADA, Yukinori

5)MORISHITA, Kousuke

6)NINOMIYA, Akishi

7)SHIRAISHI, Yuusuke

8)ONUMA, Kazuhiro

9)OGI, Sayaka

10)KAWADA, Hiroyoshi

11)KIMURA, Tomio

(57) Abstract :

The present invention provides: a compound having a Keap1-inhibitory effect; and a pharmaceutical composition containing the same. Specifically, the present invention provides: a compound represented by general formula (1) [in the formula, symbols have meanings as described in the specification.], or a pharmaceutically acceptable salt thereof; and a pharmaceutical composition containing the same.

No. of Pages : 699 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057352 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : HEAT INSULATING PROTECTIVE MEMBER, METHOD FOR MANUFACTURING SAME, METHOD FOR INSTALLING SAME, IN-FURNACE MEMBER, AND HEATING FURNACE

(51) International classification	:C03C0013000000, F21V0029770000, F02C0007000000, G02B0007080000, A61C0008000000	(71)Name of Applicant : 1)MAFTEC Co., Ltd. Address of Applicant :6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo100-0004, Japan U.S.A.
(31) Priority Document No	:2019-133919	(72)Name of Inventor :
(32) Priority Date	:19/07/2019	1)YANO, Akihiro
(33) Name of priority country	:Japan	2)KOBAYASHI, Tomoyuki
(86) International Application No	:PCT/JP2020/026892	3)SUZUKI, Mitsuo
Filing Date	:09/07/2020	
(87) International Publication No	:WO/2021/014989	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This heat insulating protective member comprising an inorganic fiber formed body having a hollow cylindrical shape or a divided hollow cylindrical shape is characterized in that the inorganic fiber formed body has an inner peripheral surface (c) forming a hollow, and an outer peripheral surface (a) forming an outer periphery, and the bulk density increases toward the outer peripheral surface (c).

No. of Pages : 48 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057354 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : FLOATING WIND TURBINE COMPRISING AN INTEGRATED ELECTRICAL SUBSTATION

(51) International classification	:B63B0035440000, F03D0013250000, F03D0009250000, F03D0080000000, F03D0009110000	(71)Name of Applicant : 1)ENBW ENERGIE BADEN-WÜRTTEMBERG AG Address of Applicant :Durlacher Allee 93 76131 Karlsruhe Germany
(31) Priority Document No	:10 2019 122 110.2	(72)Name of Inventor : 1)CHRISTIANSEN, Udo
(32) Priority Date	:16/08/2019	
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2020/071337	
Filing Date	:29/07/2020	
(87) International Publication No	:WO/2021/032422	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Described are a wind turbine comprising an integrated electrical substation, and a floating offshore wind farm, which are optimised with respect to capital costs, economic efficiency and installation space requirements.

No. of Pages : 15 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057361 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : UNLOCKING METHOD AND SYSTEM, AND LOCKING METHOD AND SYSTEM FOR VEHICLE BATTERY PACK

(51) International classification	:B60S0005060000, H01M0002100000, B60L0053800000, B60K0001040000, G06F0021360000	(71)Name of Applicant : 1)AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP Address of Applicant :12th Floor, Building C5, No.2555 Xiupu Road, Pudong New Area Shanghai 201315 China
(31) Priority Document No	:201910394652.0	(72)Name of Inventor :
(32) Priority Date	:13/05/2019	1)ZHANG, Jianping
(33) Name of priority country	:China	2)HUANG, Chunhua
(86) International Application No	:PCT/CN2020/089977	
Filing Date	:13/05/2020	
(87) International Publication No	:WO/2020/228731	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An unlocking method and system, and a locking method and system for a vehicle battery pack, the unlocking method comprising the following steps: a battery replacement device (41) moving to a first predetermined position; the battery replacement device (41) unlocking a protection device (10) to release the restriction on a locked linkage part (201); determining whether the protection device (10) is unlocked in place; if yes, moving the locked linkage part (201) to an unlocked state to unlock a locking mechanism (20); and the battery replacement device (41) moving a battery pack away from the locking mechanism (20). The described unlocking method and system, and the locking method and system for a vehicle battery pack may accurately control the unlocking and locking actions of the vehicle battery pack, thereby improving the efficiency and precision of unlocking and locking the battery pack, and reducing the costs of battery replacement.

No. of Pages : 19 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057365 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : CATALYSED MEMBRANE

(51) International classification	:H01M0004900000, C01B0013020000, H01M0008180000, B01D0053220000, H01M0008104400
(31) Priority Document No	:1912062.5
(32) Priority Date	:22/08/2019
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2020/052011
Filing Date	:21/08/2020
(87) International Publication No	:WO/2021/032994
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)JOHNSON MATTHEY FUEL CELLS LIMITED

Address of Applicant :5th Floor 25 Farringdon Street London
EC4A 4AB U.K.

(72)Name of Inventor :

1)FONGALLAND, Dash

2)SHARMAN, Jonathan

(57) Abstract :

The present invention provides a catalysed ion-conducting membrane comprising an ion- conducting membrane, an electrocatalyst layer having two opposing faces, and a layer A comprising an ion-conducting material and a carbon containing material. Also provided are methods for preparing the catalysed ion-conducting membrane.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057366 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD OF PREPARING CATHODE FOR SECONDARY BATTERY

(51) International classification	:H01M0010052500, H01M0004525000, H01M0004020000, H01M0004620000, H01M0004505000
(31) Priority Document No	:PCT/CN2019/091107
(32) Priority Date	:13/06/2019
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2020/083716
Filing Date	:08/04/2020
(87) International Publication No	:WO/2020/248678
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)GRST INTERNATIONAL LIMITED

Address of Applicant :Unit 9-10, 12/F Technology Park, 18
On Lai Street, Shatin New Territories, Hong Kong China

(72)Name of Inventor :

1)HO, Kam Piu

2)JIANG, Yingkai

(57) Abstract :

Provided herein is a method for preparing a cathode based on an aqueous slurry. The cathode slurry comprises a cathode active material, especially a nickel-containing cathode active material, with improved stability in water. Pre-treatment of nickel-containing cathode active materials may improve stability of the cathode by preventing undesirable decomposition of the material. In addition, battery cells comprising the cathode prepared by the method disclosed herein exhibit impressive electrochemical performances.

No. of Pages : 53 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057367 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : RECYCLABLE FILM AND PACKAGING

(51) International classification	:B32B0027320000, C08J0005180000, B32B0027080000, B32B0027300000, B32B0027200000	(71)Name of Applicant : 1)AMCOR FLEXIBLES NORTH AMERICA, INC. Address of Applicant :2301 Industrial Drive Neenah, WI 54956 U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : 1)SCHELL, Thomas, A.
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/US2019/032917	
Filing Date	:17/05/2019	
(87) International Publication No	:WO/2020/236140	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A recyclable film contains a base film and a sealant. The base film has at least one layer containing a polar polymer and at least one layer containing a polar polymer compatibilizer. Additionally, the base film has been oriented and annealed such that it exhibits free shrink of less than 10% in both the machine direction and the transverse direction when exposed to heat of 90°C. The film may be used for demanding retort processing applications. This film has advantages over prior recyclable films in efficient film manufacturing, high quality package production and superior package performance.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057368 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SOUND SIGNAL RECEPTION AND DECODING METHOD, SOUND SIGNAL DECODING METHOD, SOUND SIGNAL RECEPTION-SIDE DEVICE, DECODING DEVICE, PROGRAM, AND RECORDING MEDIUM

(51) International classification	:H04S0007000000, H04N0021436300, G10L0019008000, G10L0019220000, H03M0007300000	(71)Name of Applicant : 1)NIPPON TELEGRAPH AND TELEPHONE CORPORATION Address of Applicant :5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008116 Japan
(31) Priority Document No	:PCT/JP2019/023424	(72)Name of Inventor :
(32) Priority Date	:13/06/2019	1)MORIYA, Takehiro
(33) Name of priority country	:Japan	2)KAMAMOTO, Yutaka
(86) International Application No	:PCT/JP2019/051596	3)SUGIURA, Ryosuke
Filing Date	:27/12/2019	
(87) International Publication No	:WO/2020/250471	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a technology whereby high sound quality decoded sound signals can be obtained without greatly increasing delay time, compared to configurations whereby only decoded sound signals having the minimum required sound quality are obtained. In a terminal device connected to a first communication line and a second communication line having a lower priority than the first communication line, sound signals for a plurality of channels are obtained and output on the basis of: a monaural code included in a first code string input from the first communications line; and an expansion code included in a second code string having the closest frame number to the monaural code, among the second code strings input from the second communications line.

No. of Pages : 129 No. of Claims : 20

(54) Title of the invention : AUDIO SIGNAL RECEIVING AND DECODING METHOD, AUDIO SIGNAL ENCODING AND TRANSMITTING METHOD, AUDIO SIGNAL DECODING METHOD, AUDIO SIGNAL ENCODING METHOD, AUDIO SIGNAL RECEIVING DEVICE, AUDIO SIGNAL TRANSMITTING DEVICE, DECODING DEVICE, ENCODING DEVICE, PROGRAM, AND RECORDING MEDIUM

(51) International classification	:G10L0019008000, G10L0019240000, G10L0025930000, H04W0036180000, G10L0021040000	(71) Name of Applicant : 1)NIPPON TELEGRAPH AND TELEPHONE CORPORATION Address of Applicant :5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 1008116 Japan
(31) Priority Document No	:PCT/JP2019/023425	(72) Name of Inventor :
(32) Priority Date	:13/06/2019	1)MORIYA, Takehiro
(33) Name of priority country	:Japan	2)KAMAMOTO, Yutaka
(86) International Application No	:PCT/JP2019/051597	3)SUGIURA, Ryosuke
Filing Date	:27/12/2019	
(87) International Publication No	:WO/2020/250472	
(61) Patent of Addition to Application		
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a technology capable of creating a high-quality decoded audio signal without causing a delay time that is much longer than the delay time caused by a configuration for creating only a decoded audio signal of minimal sound quality. A terminal device connected to a first communication line and a second communication line with a lower priority than the first communication line creates and outputs a multichannel audio signal on the basis of a monaural code included in a first code string entering from the first communication line and an expansion code included in a second code string that is among second code strings entering from the second communication line and has a frame number closest to the frame number of the monaural code.

No. of Pages : 126 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057372 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SIGNALING METHOD AND DEVICE FOR MERGE DATA SYNTAX IN VIDEO/IMAGE CODING SYSTEM

(51) International classification	:H04N0019176000, H04N0019105000, H04N0019700000, H04N0019610000, H04N0019110000	(71)Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/865288	(72)Name of Inventor :
(32) Priority Date	:23/06/2019	1)JANG, Hyeongmoon
(33) Name of priority country	:U.S.A.	2)PARK, Naeri
(86) International Application No	:PCT/KR2020/008155	3)KIM, Seunghwan
Filing Date	:23/06/2020	
(87) International Publication No	:WO/2020/262931	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A decoding method performed by a decoding device according to the present document comprises: a step for determining the prediction mode of a current block on the basis of information on a prediction mode acquired from a bitstream; a step for deriving movement information on the current block on the basis of the prediction mode; a step for generating prediction samples of the current block on the basis of the movement information; and a step for generating reconstructed samples on the basis of the prediction samples, wherein the step for determining the prediction mode may include a step for acquiring a regular merge flag from the bitstream on the basis of a combined inter-picture merge and intra-picture prediction (CIIP) available flag that indicates whether or not a CIIP is available.

No. of Pages : 82 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057374 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : 3D-PRINTER SYSTEM AND 3D-PRINTING METHOD OF AN ELASTOMERICALLY DEFORMABLE RUBBER BODY, IN PARTICULAR A RUBBER SEAL

(51) International classification	:B33Y0030000000, B33Y0050020000, B33Y0010000000, B33Y0080000000, B33Y0050000000	(71) Name of Applicant : 1)TRELLEBORG SEALING SOLUTIONS GERMANY GMBH Address of Applicant :Schockenriedstraße 1 70565 Stuttgart Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GERADA, Ivan
(33) Name of priority country	:NA	2)HIGNETT, Martin
(86) International Application No	:PCT/EP2019/065171	
Filing Date	:11/06/2019	
(87) International Publication No	:WO/2020/249189	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention concerns a novel 3D-printer system (10) for printing elastically deformable rubber parts (90) such as rubber seals where the uncured rubber source material is partially cured before printing each rubber layer of the rubber part. The invention further concerns a novel 3D printing method for 3D-printing an elastically deformable rubber body using the said 3D-Printer system (10).

No. of Pages : 20 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057389 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : TERMINAL AND TRANSMISSION METHOD

(51) International classification	:H04W0074080000, H04W0052320000, H04L0027260000, H04H0060720000, H04L0005000000	(71)Name of Applicant : 1)NTT DOCOMO, INC. Address of Applicant :11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 1006150 Japan
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)TAKAHASHI, Hideaki
(33) Name of priority country	:NA	2)HANAKI, Akihito
(86) International Application No	:PCT/JP2019/027173	3)HARADA, Hiroki
Filing Date	:09/07/2019	4)OHARA, Tomoya
(87) International Publication No	:WO/2021/005716	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A terminal including: a receiving unit that receives an index that specifies setting information for transmitting a random access preamble; and a control unit that if the receiving unit receives additional information that specifies a resource in the time domain for transmitting the random access preamble, replaces a resource in the time domain for transmitting the random access preamble to be included in the setting information specified by the index with a resource in the time domain specified by the additional information.

No. of Pages : 44 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057402 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : CATHETER ASSEMBLY SUPPORT DEVICE, SYSTEMS, AND METHODS

(51) International classification	:A61M0025000000, A61M0025060000, B05B0007240000, B01D0036000000, A47L0015420000	(71)Name of Applicant : 1)BECTON, DICKINSON AND COMPANY Address of Applicant :1 Becton Drive Franklin Lakes, New Jersey 07417 U.S.A.
(31) Priority Document No	:62/847084	(72)Name of Inventor :
(32) Priority Date	:13/05/2019	1)BLANCHARD, Curtis H.
(33) Name of priority country	:U.S.A.	2)WARNER, Tyler
(86) International Application No	:PCT/US2020/031500	3)HARDING, Weston F.
Filing Date	:05/05/2020	
(87) International Publication No	:WO/2020/231678	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A support device to support a catheter assembly may include a platform, which may include an upper surface and a bottom surface. The support device may include an extension element coupled to the upper surface of the platform. The extension element may include a distal end, which may include a first connector configured to couple to the catheter assembly, and a proximal end, which may include a second connector. The extension element may include a valve that may be movable between a first position and a second position. In response to the valve being moved to the first position, a fluid pathway extending through the cannula and the extension element may be open and straight. In response to the valve being moved to the second position, the fluid pathway may be closed. The support device may include a cannula, which may be swaged within the extension element.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057403 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : RETROFIT REMOTE CONTROL DEVICE

(51) International classification	:H01M0002100000, H01H0009020000, H05B0047190000, H02G0003140000, H01H0009280000
(31) Priority Document No	:62/847494
(32) Priority Date	:14/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/032957
Filing Date	:14/05/2020
(87) International Publication No	:WO/2020/232284
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)LUTRON TECHNOLOGY COMPANY LLC

Address of Applicant :7200 Suter Road Coopersburg,
Pennsylvania 18036-1299 U.S.A.

(72)Name of Inventor :

1)DIMBERG, Chris

(57) Abstract :

Remote control devices may control electrical loads and/or load control devices of a load control system without accessing electrical wiring. The remote control device may be mounted over a mechanical switch that is installed in a wallbox. The remote control device may include a base, a battery, a battery holder, and a control unit. The base may be configured to attach the remote control device to the mechanical switch. The control unit may be configured to be removably attached to the base. The battery holder may be configured to retain the battery therein. The battery holder may be configured to be installed within the void defined by the housing. The battery holder may be operable between a first position in a lower portion of the void and a second position in an upper portion of the void.

No. of Pages : 33 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057404 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : BASE FOR A RETROFIT REMOTE CONTROL DEVICE

(51) International classification	:H02G0003140000, H01H0009020000, H05B0047190000, H01H0023140000, H01H0023040000
(31) Priority Document No	:62/847480
(32) Priority Date	:14/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/032942
Filing Date	:14/05/2020
(87) International Publication No	:WO/2020/232275
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)LUTRON TECHNOLOGY COMPANY LLC

Address of Applicant :7200 Suter Road Coopersburg,
Pennsylvania 18036-1299 U.S.A.

(72)Name of Inventor :

1)DIMBERG, Chris

2)KILLO, Jason C.

(57) Abstract :

A remote control device may control electrical loads and/or load control devices of a load control system without accessing electrical wiring. The remote control device may include a control unit and a base that may be configured to be mounted over a paddle actuator of an installed mechanical switch. The base may include a frame, a biasing member, and/or a ribbon portion. The frame may be configured to secure the remote control device thereto. The frame may define a rear surface that is configured to abut a bezel of the mechanical switch. The biasing member may be configured to engage a rear surface of a faceplate of the mechanical switch. The ribbon portion may be configured to attach the biasing member to the frame. The ribbon portion may be configured to extend through a gap between the bezel and the faceplate.

No. of Pages : 24 No. of Claims : 17

(54) Title of the invention : ELECTRONIC EXPANSION VALVE

(51) International classification	:F25B0041060000, F16K0001320000, F16K0047080000, F02M0051060000, F01L0001180000
(31) Priority Document No	:201910574621.3
(32) Priority Date	:28/06/2019
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2020/098382
Filing Date	:28/06/2020
(87) International Publication No	:WO/2020/259658
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)ZHEJIANG SANHUA INTELLIGENT CONTROLS CO., LTD
 Address of Applicant :Xialiquan Qixing Street, Xinchang County Shaoxing, Zhejiang 312500 China
 (72)Name of Inventor :
1)WEI, Xianrang

(57) Abstract :

An electronic expansion valve, comprising a valve needle screw assembly (1). The valve needle screw assembly (1) comprises a valve needle (11), a valve needle sleeve (12), a washer part (13), a spring (14), and a screw assembly (15). The valve needle (11) is fixedly connected to the valve needle sleeve (12). The valve needle sleeve (12) comprises a circumferential wall part (122) and a fitting part (121). The inner diameter of the fitting part (121) is smaller than the inner diameter of the circumferential wall part (122). The screw assembly (15) comprises a lower stopper part (153), a valve needle support part (154), and an upper stopper part (155). The lower stopper part (153) is abutted against the washer part (13). The valve needle support part (154) is abutted against the fitting part (121) of the valve needle sleeve (12). The upper stopper part (155) is abutted against the spring (14). The distance between the valve needle support part (154) and the washer part (13) is D1; the distance between the valve needle support part (154) and the upper end of the fitting part (121) is D2; and, D1 = D2. Before the spring (14) of the electronic expansion valve is further compressed, the valve needle (11) is hanged on the screw component (15) via the valve needle sleeve (12), and the valve needle (11) is not subjected to the elastic load of the spring (14), thus reducing the friction experienced by the valve needle (11) when a screw (151) is being rotated.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057422 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ABSORBENT ARTICLE

(51) International classification	:A61F0013490000, A61F0013494000, A61F0013535000, A61F0013511000, A61F0013537000	(71)Name of Applicant : 1)UNICHARM CORPORATION Address of Applicant :182, Shimobun, Kinsei-cho, Shikokuchuo-City, Ehime 7990111 Japan
(31) Priority Document No	:201910535887.7	(72)Name of Inventor :
(32) Priority Date	:20/06/2019	1)TAKAHASHI, Yuji
(33) Name of priority country	:China	2)ZHENG, Lingshuang
(86) International Application No	:PCT/JP2020/015404	3)SHI, Yi
Filing Date	:03/04/2020	
(87) International Publication No	:WO/2020/255532	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An absorbent article (1) having an absorbent body (20) comprising an absorbent core (22) that absorbs liquids and a skin-side sheet (24a, 24b) that is further toward the skin in the thickness direction than the absorbent core (22) is characterized in that: a volatile substance (26) is provided to at least one of the absorbent core (22) and the skin-side sheet (24a, 24b); an elastic member (30) following the lengthwise direction is provided further away from the skin in the thickness direction than the absorbent core (22); the elastic member (30) forms an elastic area (30A) in at least part of a middle area (MA) obtained by dividing the absorbent body (20) into three equal parts in the lengthwise direction; and at least part of the volatile substance (26) overlaps with the elastic area (30A) in the middle area (MA) when viewed in the thickness direction.

No. of Pages : 26 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057423 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ABSORBENT ARTICLE AND METHOD FOR MANUFACTURING ABSORBENT ARTICLE

(51) International classification	:A61F0013490000, A61F0013494000, A61F0013475000, A61F0013511000, B62M0007120000	(71)Name of Applicant : 1)UNICHARM CORPORATION Address of Applicant :182, Shimobun, Kinsei-cho, Shikokuchuo-shi, Ehime 7990111 Japan
(31) Priority Document No	:2019-115024	(72)Name of Inventor :
(32) Priority Date	:20/06/2019	1)HASHINO, Yuki
(33) Name of priority country	:Japan	2)KUDO, Etsuko
(86) International Application No	:PCT/JP2020/024138	3)TESHIMA, Midori
Filing Date	:19/06/2020	
(87) International Publication No	:WO/2020/256103	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is an absorbent article capable of reducing waste leakage while making it easy to maintain flatness of leg gathers. A standing gather (70) and a leg gather (80) are formed by a pair of sheet layers (62p) that face each other by virtue of one side sheet (62) being folded back starting at one fold (FL1) that extends in the front-back direction (L). In the widthwise direction (W), the pair of sheet layers (62p) continuously extend from a position (P1), contacting a first standing elastic member (751) positioned closest to the skin side (T1) when the standing gather (70) is raised, to a position (P2) contacting a fourth leg elastic member (854) disposed farthest to the outer side in the widthwise direction.

No. of Pages : 32 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057424 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ABSORBER AND ABSORBENT ARTICLE

(51) International classification	:B01J0020260000, A61L0015600000, B01J0020320000, B01J0020280000, C08K0005521000	(71)Name of Applicant : 1)UNICHARM CORPORATION Address of Applicant :182, Shimobun, Kinsei-cho, Shikokuchuo-City, Ehime 7990111 Japan
(31) Priority Document No	:2019-121033	(72)Name of Inventor : 1)KIKUCHI, Kyo
(32) Priority Date	:28/06/2019	2)IWAI, Wakana
(33) Name of priority country	:Japan	3)NAKASHITA, Masashi
(86) International Application No	:PCT/JP2020/024503	4)GODA, Hiroki
Filing Date	:23/06/2020	
(87) International Publication No	:WO/2020/262343	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention pertains to an absorber (11) for absorbing bodily fluids, the absorber characterized by comprising a polymer absorbent provided with a continuous skeleton and continuous pores, the polymer absorbent being a hydrolysate of a crosslinked polymer of a (meth)acrylic acid ester and a compound containing two or more vinyl groups per molecule, and the polymer absorbent containing at least one -COONa group.

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057439 A

(19) INDIA

(22) Date of filing of Application :09/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : RISER EXTENSION APPARATUS AND PROCESS

(51) International classification	:C10G0011180000, B01J0008180000, B01J0008000000, B01J0008380000, B01J0008260000
(31) Priority Document No	:16/458002
(32) Priority Date	:29/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/040064
Filing Date	:29/06/2020
(87) International Publication No	:WO/2021/003083
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)UOP LLC

Address of Applicant :25 East Algonquin Road P.O. Box 5017
Des Plaines, Illinois 60017-5017 U.S.A.

(72)Name of Inventor :

1)MEHLBERG, Robert

2)STINE, Michael A.

3)DAVYDOV, Lev

4)KULPRATHIPANJA, Sathit

(57) Abstract :

In an apparatus for fluid catalytic cracking a riser having a top and a bottom for fluidizing and cracking a hydrocarbon feed stream by contact with catalyst exits an outlet at the top of the riser. A downer in communication with the outlet of the riser receives cracked hydrocarbon product and catalyst. A swirl duct in communication with the downer has a discharge opening below the outlet for discharging said cracked hydrocarbon product and catalyst. A stream of hydrocarbon feed and a catalyst is passed upwardly in a riser. A stream of gaseous hydrocarbon products and catalyst is directedly downwardly and then the stream of gaseous hydrocarbon products and catalyst are directed to flow in an angular direction to separate gaseous hydrocarbon products from the catalyst.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057462 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : MULTI-LOCKING DEVICE USING RANDOM PASSWORD

(51) International classification	:G07C0009000000, E05B0049000000, E05B0051000000, A45C0013100000, G07C0009270000	(71)Name of Applicant : 1)LEE, Ki Chul Address of Applicant :173-59, Gimpohangang 8-ro Gimpo-si, Gyeonggi-do 10068 Republic of Korea
(31) Priority Document No	:10-2019-0124034	(72)Name of Inventor : 1)LEE, Ki Chul
(32) Priority Date	:07/10/2019	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2020/013446	
Filing Date	:05/10/2020	
(87) International Publication No	:WO/2021/071177	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A technical problem to be resolved by the present invention is to provide a multi-locking device using a random password, which can alleviate the inconvenience occurring when multiple users, who are supposed to open and close the same door, need to receive locks/keys from a manager and then return same after use. Disclosed is a multi-locking device comprising: a locking device management unit configured such that, when a user requests same to grant a right to open/close a door, same converts information regarding a granted right regarding the door into a QR code, outputs same, and provides same to the user; a door locking device configured to receive the information regarding a granted right regarding the door from the locking device management unit; and a QR code reader unit configured to receive the QR code from the user and provide same to the door locking device. The door locking device further comprises an opening/closing button and an opening/closing driving unit. If information regarding the provided QR code matches with the information regarding a granted right regarding the door received from the locking device management unit, and if the opening/closing button is manipulated, the opening/closing driving unit is driven, thereby opening/closing the door.

No. of Pages : 28 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057465 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : 2,3-DIHYDROQUINAZOLIN COMPOUNDS AS NAV1.8 INHIBITORS

(51) International classification	:A61K0045060000, C07K0014470000, A61K0031427000, A61K0009127000, A61K0038000000	(71)Name of Applicant : 1)GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED Address of Applicant :980 Great West Road Brentford Middlesex TW89GS U.K.
(31) Priority Document No	:62/867714	(72)Name of Inventor :
(32) Priority Date	:27/06/2019	1)WASHBURN, David G.
(33) Name of priority country	:U.S.A.	2)HOANG, Tram H.
(86) International Application No	:PCT/IB2020/055921	3)MILLER, William H.
Filing Date	:23/06/2020	4)GUANG, Jie
(87) International Publication No	:WO/2020/261114	5)ELBAN, Mark
(61) Patent of Addition to Application Number	:NA	6)DAVIS, Roderick S.
Filing Date	:NA	7)HO, Ming-Hsun
(62) Divisional to Application Number	:NA	8)ROMANO, Joseph J.
Filing Date	:NA	9)VIMAL, Mythily
		10)YING, Maben

(57) Abstract :

The present invention relates to Nav1.8 Inhibitor 2,3-dihydroquinazolin compounds of Formula (X); wherein Y', X', B', R1', R2', R3', R5', R6', R7', and z1 are as defined herein; or pharmaceutically acceptable salts or tautomer forms thereof, corresponding pharmaceutical compositions or formulations, methods or processes of compound preparation, methods, compounds for use in, uses for and/or combination therapies for treating pain and/or pain-related or associated disease(s), disorder(s) or condition(s), respectively.

No. of Pages : 517 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057467 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS AND COMPOSITIONS FOR ATTENUATED ANTI-VIRAL TRANSFER VECTOR IMMUNE RESPONSE

(51) International classification	:A61K0009510000, A61K0047690000, A61K0031436000, A61K0045060000, A61K0039000000	(71)Name of Applicant : 1)SELECTA BIOSCIENCES, INC. Address of Applicant :65 Grove Street Watertown, MA 02472 U.S.A.
(31) Priority Document No	:62/853647	(72)Name of Inventor :
(32) Priority Date	:28/05/2019	1)KISHIMOTO, Takashi, Kei
(33) Name of priority country	:U.S.A.	2)ILYINSKII, Petr
(86) International Application No	:PCT/US2020/034865	
Filing Date	:28/05/2020	
(87) International Publication No	:WO/2020/243261	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are methods and related compositions or kits for administering viral transfer vectors in combination with synthetic nanocarriers comprising an immunosuppressant and a corticosteroid.

No. of Pages : 65 No. of Claims : 58

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057479 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHOD OF DETERMINING PLANT HEALTH

(51) International classification	:A61B0003032000, G01N0021840000, G01J0003520000, G09G0005000000, G01J0003460000	(71)Name of Applicant : 1)YARA INTERNATIONAL ASA Address of Applicant :Drammensveien 131 0277 Oslo Norway
(31) Priority Document No	:19179689.5	(72)Name of Inventor : 1)ALI, Idaly
(32) Priority Date	:12/06/2019	2)YEO, Robin
(33) Name of priority country	:EPO	3)IZUDDIN, Muhammad
(86) International Application No	:PCT/EP2020/065786	4)TWARAKAVI, Navin
Filing Date	:08/06/2020	
(87) International Publication No	:WO/2020/249503	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method of determining health of a plant (24), which method comprises: displaying, on a screen (12) of an electronic display of a mobile computing device (10), a digital leaf colour chart (16) with colours ranging from yellow green to dark green; displaying on the screen next to the digital leaf colour chart a white area (20) on which a leaf (22) of the plant (24) is to be placed; receiving input to the mobile computing device from a user about which colour of the digital leaf colour chart that best matches the leaf placed on the white area; and the mobile computing device determining the plant health based on the received input.

No. of Pages : 11 No. of Claims : 15

(54) Title of the invention : TURBOMACHINE TURBINE HAVING CMC NOZZLE WITH LOAD SPREADING

(51) International classification	:F01D0009040000, F01D0025240000, F01D0005180000, F01D0011000000, F01D0009060000	(71)Name of Applicant : 1)SAFRAN AIRCRAFT ENGINES Address of Applicant :2 Boulevard du Général Martial Valin 75015 PARIS France
(31) Priority Document No	:FR1906244	(72)Name of Inventor :
(32) Priority Date	:12/06/2019	1)GAILLARD, Aurélien
(33) Name of priority country	:France	2)DANIS, Antoine, Claude, Michel, Etienne
(86) International Application No	:PCT/FR2020/050928	3)JARROSSAY, Clément
Filing Date	:01/06/2020	4)LEPRETRE, Gilles, Gérard, Claude
(87) International Publication No	:WO/2020/249886	5)TABLEAU, Nicolas, Paul
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a turbine (1) having a casing and a nozzle (2), comprising an outer metal shroud (9) rigidly connected to the casing, an inner metal shroud (5), and a plurality of CMC nozzle sectors (20) forming a ring extending between the outer metal shroud (9) and the inner metal shroud (5), each sector (20) comprising a mast (6), an inner platform (24), an outer platform (26) and at least one blade (28) having a hollow profile defining an inner recess, the inner and outer platforms (24, 26) each having an opening communicating with the inner recess, and the mast (6) passing through said openings and the inner recess and being secured to the casing and connected to the nozzle sector (20). The mast (6) comprises at least one hooking projection having at least one portion extending from a radially outer end (6e) of the mast (6) in a direction away from the centre of the mast (6) and in a plane orthogonal to the radial direction (DR).

No. of Pages : 12 No. of Claims : 11

(54) Title of the invention : IDENTIFICATION AND SELECTION OF A PLANT STARTING MATERIAL OF A PLANT CHONDROITIN SULFATE AND HYALURONIC ACID, AND TRANSFORMATION OF SUCH PLANT STARTING MATERIAL TO OBTAIN INGREDIENTS FOR USE IN FOODS, SUPPLEMENTS, MEDICAL DEVICES OR DRUGS

(51) International classification	:A61K0031728000, A61K0008730000, A61K0031737000, C22B0015000000, A61K0031726000	(71) Name of Applicant : 1)VIVATIS PHARMA GMBH Address of Applicant :Grüner Deich 1-3 20097 Hamburg Germany
(31) Priority Document No	:102019000008409	(72) Name of Inventor :
(32) Priority Date	:07/06/2019	1)CERANA, Giorgio Stefano
(33) Name of priority country	:Italy	2)BOS, Peter
(86) International Application No	:PCT/IB2020/055362	
Filing Date	:08/06/2020	
(87) International Publication No	:WO/2020/245809	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Process for extraction from a plant starting material, such as a fungus, for the preparation of a mixture (m) comprising or, alternatively, consisting of at least one glycosaminoglycan selected from: (a) hyaluronic acid or a salt thereof (HA) having a weight average molecular weight of comprised from 10 kDa to 600 kDa; (b) chondroitin or chondroitin sulfate or a salt thereof (CS) having a weight average molecular weight comprised from 3 kDa to 50 kDa; and (c) a combination of (a) and (b).

No. of Pages : 28 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057484 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : STABILIZED DITHIOCARBAMATE FORMULATIONS

(51) International classification	:A01N0047140000, A01N0025040000, A61K0009000000, A61K0031537700, A01N0047260000	(71)Name of Applicant : 1)BAYER AKTIENGESELLSCHAFT Address of Applicant :Kaiser-Wilhelm-Allee 1 51373 Leverkusen Germany
(31) Priority Document No	:19180415.2	(72)Name of Inventor :
(32) Priority Date	:15/06/2019	1)STUKE, Sven
(33) Name of priority country	:EPO	2)WIRKNER, Helmut
(86) International Application No	:PCT/EP2020/066443	3)SAFFERLING, Markus
Filing Date	:15/06/2020	4)GÖRGÜLÜ, Nuran
(87) International Publication No	:WO/2020/254230	5)ZUPANC, Christian
(61) Patent of Addition to Application Number	:NA	6)ERTZ, Kathrin
Filing Date	:NA	7)STEINBECK, Martin
(62) Divisional to Application Number	:NA	8)HAACK, Karl-Josef
Filing Date	:NA	9)JASAK, Julia
		10)DIOT, Regine

(57) Abstract :

The invention relates to stabilized dithiocarbamate formulations, in particular stabilized formulations of active ingredients that contain dithiocarbamates as functional groups, such as for example propineb, maneb and mancozeb.

No. of Pages : 24 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057486 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : ANTIBACTERIAL AMINOGLYCOSIDE DERIVATIVES

(51) International classification	:C07D0471040000, C07D0487040000, C07D0405120000, A61K0031703600, C07D0417040000	(71)Name of Applicant : 1)ZHUOHE PHARMACEUTICAL GROUP CO., LTD Address of Applicant :No.219 Furong Zhongsi Road, Xishan Economic Zone, Wuxi, Jiangsu 214000 China
(31) Priority Document No	:201910463155.1	(72)Name of Inventor :
(32) Priority Date	:30/05/2019	1)TANG, Dongdong
(33) Name of priority country	:China	2)HUANG, Zhigang
(86) International Application No	:PCT/CN2020/093436	3)LI, Cheng
Filing Date	:29/05/2020	4)DING, Charles Z.
(87) International Publication No	:WO/2020/239096	5)CHEN, Shuhui
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A new class of antibacterial aminoglycoside derivatives, pharmaceutical compositions containing such compounds, and application thereof in the preparation of drugs for treating diseases related to bacterial infections. Specifically disclosed are a compound represented by formula (II), pharmaceutically acceptable salts thereof, and isomers thereof.

No. of Pages : 36 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057506 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : LIQUID MEDICINE SELF-INJECTION SYSTEM

(51) International classification	:A61M0005142000, A61M0005145000, A61M0005240000, A61M0005315000, A61K0009000000	(71)Name of Applicant : 1)AUBEX CORPORATION Address of Applicant :31-11, Ryogoku 4-chome, Sumida-ku Tokyo 1300026 Japan
(31) Priority Document No	:2019-091104	(72)Name of Inventor :
(32) Priority Date	:14/05/2019	1)KADOWAKI Yu
(33) Name of priority country	:Japan	2)KAWAMURA Eri
(86) International Application No	:PCT/JP2020/018531	
Filing Date	:07/05/2020	
(87) International Publication No	:WO/2020/230689	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem] To provide a liquid medicine self-injection system with which a prescribed amount of a liquid medicine can be easily and safely injected (particularly by bolus infusion) by a patient him/herself, for the purpose of preventing, treating, or improving obstetric pain, particularly for painless childbirth. [Solution] A liquid medicine self-injection system 1 comprises: a liquid medicine storage container 2 that stores a liquid medicine; a liquid medicine feeding means 3 that feeds the liquid medicine from the liquid medicine storage container 2; and a liquid medicine injection device 4 that enables self-injection of the liquid medicine fed from the liquid medicine storage container 2, so as to be usable to prevent, treat, or improve obstetric pain, particularly for painless childbirth. Due to this configuration, a prescribed amount of a liquid medicine can be administrated to a patient, i.e. a pregnant woman, especially a pregnant woman in labor, easily and safely at one time by self-injection, without using a large-scale device and without negatively affecting the fetus.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057509 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : WIRELESS COMMUNICATION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE

(51) International classification :H04W0072040000,
H04L0005000000,
H04W0056000000,
H04W0080020000,
H04W0068000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2019/117651
Filing Date :12/11/2019
(87) International Publication No :WO/2021/092774
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
**1)GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.**
Address of Applicant :NO. 18, Haibin Road, Wusha, Chang'an
Dongguan, Guangdong 523860 China
(72)Name of Inventor :
1)HE, Chuanfeng

(57) Abstract :

A wireless communication method, a network device, and a terminal device. The network device may indicate a Quasi-co-located (QCL) parameter by means of different indication modes according to whether a Synchronization Signal Block (SSB) is associated with an SIB1, thereby ensuring that the terminal device accurately receives indication information of QCL. The method comprises: a network device determines SIB1 association indication information of a first SSB, the SIB1 association indication information being used for indicating whether the first SSB is associated with an SIB1; the network device determines, according to whether the first SSB is associated with the SIB1, whether the first SSB carries indication information of a QCL parameter and/or an indication mode of the QCL parameter in the first SSB; and the network device sends the first SSB.

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057513 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : FLUID HANDLING COUPLINGS

(51) International classification	:F16L0037340000, B67D0001080000, F16L0037350000, F16L0037230000, H01M0008241000
(31) Priority Document No	:62/859558
(32) Priority Date	:10/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/036588
Filing Date	:08/06/2020
(87) International Publication No	:WO/2020/251883
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)COLDER PRODUCTS COMPANY

Address of Applicant :1001 Westgate Drive Saint Paul, MN
55114 U.S.A.

(72)Name of Inventor :

1)TRUONG, Loi, T.

2)WILLIAMS, Randall, S.

(57) Abstract :

Fluid couplings described herein can prevent spillage of fluid when disconnecting the couplings after use. In some embodiments, the fluid couplings described herein include internal valve components but no springs, or no springs in the fluid flow path. In some embodiments, the internal valve components of a male coupling and a female coupling can be designed to latch together in an abutted arrangement. By latching the valve components together, the tendency for fluid to spill when disconnecting the fluid couplings after use can be mitigated, and the necessity to use springs to operate the valve components can be reduced or eliminated.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057515 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS OF FORMING CARBON-SILICON COMPOSITE MATERIAL ON A CURRENT COLLECTOR

(51) International classification	:H01M0004360000, H01M0004139300, H01M0004133000, H01M0004139500, H01M0004134000	(71)Name of Applicant : 1)ENEVATE CORPORATION Address of Applicant :101 Theory, Suite 200 Irvine, California 92617 U.S.A.
(31) Priority Document No	:16/430306	(72)Name of Inventor :
(32) Priority Date	:03/06/2019	1)PARK, Benjamin Yong
(33) Name of priority country	:U.S.A.	2)KAMATH, Rahul R.
(86) International Application No	:PCT/US2020/035962	3)BONHOMME, Fred
Filing Date	:03/06/2020	
(87) International Publication No	:WO/2020/247526	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods of forming electrodes are described. In some embodiments, the method can include providing a current collector. The method can also include providing a first carbon precursor on the current collector and providing a mixture on the first carbon precursor. The mixture can include a second carbon precursor and silicon particles. The method can further include pyrolysing the second carbon precursor to convert the second carbon precursor into one or more types of carbon phases to form a composite material. The one or more types of carbon phases can be a substantially continuous phase with the silicon particles distributed throughout the composite material. The method can also include pyrolysing the first carbon precursor to adhere the composite material to the current collector.

No. of Pages : 32 No. of Claims : 31

(54) Title of the invention : DEVICE FOR ROBOTICALLY INTERNALLY INSULATING A WELDED PIPELINE JOINT

(51) International classification	:F16L0013020000, F16L0023160000, E03F0003060000, F16L0055110000, F16L0005020000	(71)Name of Applicant : 1)CHUIKO, Aleksandr Georgievich Address of Applicant :ul. Profsoyuznaya, 43-1-208 Moscow, 117420 Russia
(31) Priority Document No	:2019119327	(72)Name of Inventor :
(32) Priority Date	:20/06/2019	1)CHUIKO, Aleksandr Georgievich
(33) Name of priority country	:Russia	2)CHUIKO, Aleksandr Georgievich
(86) International Application No	:PCT/RU2020/000384	
Filing Date	:27/07/2020	
(87) International Publication No	:WO/2020/256589	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to pipeline construction and can be used for internally insulating a welded joint between pipes with an internal protective coating. A device for internally insulating a welded pipeline joint comprises a sealing assembly (10) including a cylindrical housing and a cylindrical working member coaxially fastened thereon and configured for radial expansion upon the generation of excess pressure in a cavity thereof. Inside the housing are a sealing compound feed assembly (12), a dosing device for components of the sealing compound, which is formed by a piston assembly (11), and a pneumatic control assembly (13). In the dosing device, working cavities for each component of the sealing compound are connected to the sealing compound feed assembly (12). The elastic working member is configured with a conduit for feeding sealing compound into an annular gap in the region of a welded joint, said conduit being connected to the compound feed assembly (12), and with a conduit for pumping air out of said annular gap. The pneumatic control assembly (13) is designed to be capable of controlling the functioning of the dosing device and of the sealing compound feed assembly (12) and of generating excess air pressure in the cavity of the working member of the sealing assembly (10).

No. of Pages : 60 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057522 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : NATRIURETIC PEPTIDE RECEPTOR 1 ANTIBODIES AND METHODS OF USE

(51) International classification	:C07K0016280000, G01N0033574000, A61K0039000000, G01N0033680000, A61K0038080000	(71)Name of Applicant : 1)NOVARTIS AG Address of Applicant :Lichtstrasse 35 4056 Basel Switzerland
(31) Priority Document No	:62/860508	(72)Name of Inventor : 1)DIENER, John Louis
(32) Priority Date	:12/06/2019	2)GADTKE, Lars
(33) Name of priority country	:U.S.A.	3)HARTLEPP, Felix
(86) International Application No	:PCT/IB2020/055468	4)HU, Tiancen
Filing Date	:10/06/2020	5)LADETZKI-BAEHS, Kathrin
(87) International Publication No	:WO/2020/250159	6)ROMANOWSKI, Michael
(61) Patent of Addition to Application Number	:NA	7)RUSSO, Cesare
Filing Date	:NA	8)WEZLER, Xenia
(62) Divisional to Application Number	:NA	9)XIE, Xiaoling
Filing Date	:NA	

(57) Abstract :

This disclosure relates to anti-Natriuretic Peptide Receptor 1 (NPR1) antibodies including agonist antibodies which are able to activate the NPR1 receptor, pharmaceutical compositions comprising the same, and methods of treatment comprising the same.

No. of Pages : 240 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057525 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SMALL MOLECULE MODULATORS OF GUT BACTERIAL BILE ACID METABOLISM

(51) International classification :G01N0033680000,
A61K0045060000,
A61P0001000000,
A61P0001160000,
A61K0031707200
(31) Priority Document No :62/846457
(32) Priority Date :10/05/2019
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2020/032016
Filing Date :08/05/2020
(87) International Publication No :WO/2020/231776
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)PRESIDENT AND FELLOWS OF HARVARD
COLLEGE**

Address of Applicant :17 Quincy Street Cambridge, MA
02138 U.S.A.

(72)Name of Inventor :

1)DEVLIN, Abigail, Sloan

2)ADHIKARI, Arijit

(57) Abstract :

Described herein are methods and compositions related to inhibiting bile salt hydrolase (BSH) and uses thereof. Provided herein is a method for treating a metabolic disorder (e.g., diabetes, obesity), gastrointestinal disease (e.g., a gastrointestinal infection; inflammatory bowel disease (IBD); appendicitis; Crohn's disease (CD); ulcerative colitis (UC); gastritis; enteritis; esophagitis; pancreatitis; diabetes; hepatitis; liver diseases (e.g., Non-alcoholic Fatty Liver Disease (NAFLD); non-alcoholic steatohepatitis (NASH); hepatitis A; hepatitis B; hepatitis C; autoimmune hepatitis; and cirrhosis of the liver) gastroesophageal reflux disease (GERD); celiac disease; diverticulitis; food intolerance; ulcer; infectious colitis; irritable bowel syndrome; leaky gut; and cancer), cancer (e.g., cancer of the digestive system, liver cancer), or an inflammatory disease (e.g., Crohn's disease, inflammatory bowel disease, ulcerative colitis, pancreatitis, hepatitis, appendicitis, gastritis, diverticulitis, celiac disease, food intolerance, enteritis, ulcer, gastroesophageal reflux disease (GERD), psoriatic arthritis, psoriasis, and rheumatoid arthritis) in a subject in need thereof comprising administering to a subject a compound of Formulae (I) -(XVIII).

No. of Pages : 145 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057546 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : MEDICAL IMAGE PROCESSING DEVICE, MEDICAL IMAGE PROCESSING PROGRAM, MEDICAL DEVICE, AND TREATMENT SYSTEM

(51) International classification	:A61B0006000000, A61N0005100000, A61B0006030000, A61B0001070000, G06T0007000000	(71)Name of Applicant : 1)TOSHIBA ENERGY SYSTEMS & SOLUTIONS CORPORATION Address of Applicant :72-34, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa 2120013 Japan
(31) Priority Document No	:2019-091410	2)NATIONAL INSTITUTES FOR QUANTUM SCIENCE AND TECHNOLOGY
(32) Priority Date	:14/05/2019	(72)Name of Inventor :
(33) Name of priority country	:Japan	1)HIRAI Ryusuke
(86) International Application No	:PCT/JP2020/018234	2)SAKATA Yukinobu
Filing Date	:30/04/2020	3)TANIZAWA Akiyuki
(87) International Publication No	:WO/2020/230642	4)OKAYA Keiko
(61) Patent of Addition to Application Number	:NA	5)MORI Shinichiro
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A medical image processing device of this embodiment has a first image acquisition unit, a second image acquisition unit, a generation unit, and a calculation unit. The first image acquisition unit acquires a first fluoroscopic image of a patient. The second image acquisition unit acquires, from an imaging device that detects radiation with a detector and images the same, a second fluoroscopic image corresponding to radiation with which the patient is irradiated at a time different from that of the first fluoroscopic image. On the basis of the installation position of the detector, the generation unit generates a reconstruction image reproducing the second fluoroscopic image from the first fluoroscopic image that is virtually arranged in a three-dimensional space. The calculation unit derives, on the basis of the degree of similarity between the second fluoroscopic image and the reconstruction image, a suitable position of the first fluoroscopic image in the three-dimensional space. The generation unit generates the reconstruction image used by the calculation unit so as to have a range broader than the range corresponding to the second fluoroscopic image.

No. of Pages : 59 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057557 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : CATHETER INSERT DEVICES

(51) International classification	:B01D0061360000, A61L0029080000, G03G0015080000, A61L0029120000, G01N0031220000	(71)Name of Applicant : 1)THE REGENTS OF THE UNIVERSITY OF MICHIGAN Address of Applicant :1600 Huron Parkway 2nd Floor Ann Arbor, Michigan 48109-2590 U.S.A.
(31) Priority Document No	:62/859515	(72)Name of Inventor :
(32) Priority Date	:10/06/2019	1)KIM, Maria
(33) Name of priority country	:U.S.A.	2)BRISBOIS, Elizabeth J.
(86) International Application No	:PCT/US2020/036823	3)DOVERSPIKE, Joshua C.
Filing Date	:09/06/2020	4)MACK, Shale J.
(87) International Publication No	:WO/2020/251947	5)LAUTNER-CSORBA, Orsolya I.
(61) Patent of Addition to Application Number	:NA	6)KONOPINSKA, Kamila Katarzyna
Filing Date	:NA	7)MEYERHOFF, Mark E.
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A catheter insert device includes a powder composition, and a housing. The powder composition includes a solid phase S-nitrosothiol (RSNO). The housing includes a polymeric wall that is i) permeable to nitric oxide, ii) non-porous, and iii) permeable to water vapor, and an inner lumen defined at least in part by the polymeric wall. The powder composition is completely sealed within the inner lumen of the housing.

No. of Pages : 42 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057566 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : LIPOSUCTION ASPIRATE AND FAT PURIFICATION DEVICE

(51) International classification	:G01N0033574000, C12M0001000000, A61K0035350000, G01N0035100000, B01L0003000000	(71)Name of Applicant : 1)GOISIS, Mario Address of Applicant :Via Carducci 11 20123 Milano MI Italy
(31) Priority Document No	:102019000006764	(72)Name of Inventor : 1)GOISIS, Mario
(32) Priority Date	:13/05/2019	
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2020/054521	
Filing Date	:13/05/2020	
(87) International Publication No	:WO/2020/230045	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method and a device (100) for purifying aspirate extracted from a patient, which comprises: - a first connector (101) able to be coupled with a containment member (102) for suction fluid, so as to receive its contents; - a discharge member (103), connected or connectable to a discharge tank (104), which is adapted to receive a waste fluid; - a duct (105) which connects the first connector (101) to the discharge member (103); - a washing tank (106), adapted to contain a washing liquid and connected or connectable to the duct (105) by means of a second connector (107), so as to introduce the washing liquid into the latter. Moreover, the following are provided, in sequence, along the duct (105) between the first connector (101) and the discharge member (103): - a first filtering member (108) configured to prevent the passage of mature cell elements and, instead, able to be crossed by adipocyte precursors and stem cells and by a stromal vascular fraction; - a third connector (109) able to be coupled with a receiving member (110) configured to receive fluid from said duct (105); - a second filtering member (111) configured to prevent the passage of precursors of vital cell elements and vital stem cells and, instead, able to be crossed by blood and/or washing liquid.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057567 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : INTRAVENOUS SYSTEM INCLUDING PUMP, VASCULAR ACCESS DEVICE AND SECUREMENT DEVICE AND METHODS THEREOF

(51) International classification	:A61M0005168000, A61B0005000000, A61M0001120000, A61M0001100000, A61M0039020000	(71)Name of Applicant : 1)BARD ACCESS SYSTEMS, INC. Address of Applicant :605 North 5600 West Salt Lake City, UT 84116 U.S.A.
(31) Priority Document No	:62/860100	(72)Name of Inventor :
(32) Priority Date	:11/06/2019	1)BLANCHARD, Daniel B.
(33) Name of priority country	:U.S.A.	2)MCFARLAND, Todd P.
(86) International Application No	:PCT/US2020/035371	3)HOWELL, Glade Harold
Filing Date	:29/05/2020	
(87) International Publication No	:WO/2020/251786	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Embodiments disclosed herein are directed to a system including an intravenous (IV) pump, a vascular access device (VAD), securement devices, and methods thereof. The intravenous (IV) pump, vascular access device (VAD), and securement device can include a sensor, printed circuit board (PCB), communication module, and the like to determine the characteristics of the VAD device in use, the fluid being administered, and physiological characteristics of the patient. The pump unit can utilize this information to modify the flow characteristics of the fluid being administered. The VAD characteristics can be predetermined and stored on the VAD, derived from sensors, or derived from remote databases using a unique identifier. Fluid and physiological characteristics can be determined from sensors located on the pump, VAD, securement device or combinations thereof.

No. of Pages : 17 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057585 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : IMMUNOTHERAPY CONSTRUCTS TARGETING KRAS ANTIGENS

(51) International classification	:C07K0014820000, C12Q0001688300, A61P0035000000, A61K0039395000, A61K0039000000
(31) Priority Document No	:62/853102
(32) Priority Date	:27/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/CA2020/050715
Filing Date	:26/05/2020
(87) International Publication No	:WO/2020/237368
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)PROVINCIAL HEALTH SERVICES AUTHORITY
Address of Applicant :British Columbia Cancer Research
Centre 675 West 10th Avenue Vancouver, British Columbia V5Z
1L3 Canada
(72)**Name of Inventor :**
1)HOLT, Robert
2)RIVE, Craig
3)TURCOTTE, Simon

(57) Abstract :

An antigen targeting agent is provided. The antigen targeting agent binds to a mutated Kirsten rat sarcoma viral oncogene homolog (KRAS) protein having a missense mutation at position 12 when a peptide incorporating the missense mutation is presented by an HLA-A02 molecule. The missense mutation at position 12 of the KRAS protein may be G12D, G12V or G12C. The antigen targeting agents can be used diagnostically or for immunotherapy.

No. of Pages : 42 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057587 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : COMPOSITIONS COMPRISING EPHEDRINE OR AN EPHEDRINE SALT AND METHODS OF MAKING AND USING SAME

(51) International classification	:A61K0035000000, C12N0005077500, A61K0035120000, A61P0035000000, A61K0009200000	(71)Name of Applicant : 1)NEXUS PHARMACEUTICALS, INC. Address of Applicant :400 Knightsbridge Parkway Lincolnshire, Illinois 60069 U.S.A.
(31) Priority Document No	:62/849125	(72)Name of Inventor : 1)AHMED, Shahid
(32) Priority Date	:16/05/2019	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2020/033310	
Filing Date	:16/05/2020	
(87) International Publication No	:WO/2020/232424	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides compositions comprising ephedrine sulfate ready for immediate use in a clinical setting, and methods of making and using same.

No. of Pages : 55 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057588 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : THREE-PHASE ELECTRICAL CONNECTION SYSTEM

(51) International classification	:H01R0013620000, F16L0027020000, F16F0006000000, F16L0037000000, H01F0007020000	(71)Name of Applicant : 1)GULPLUG Address of Applicant :9 RUE CORNELIE GEMOND 38000 GRENOBLE France
(31) Priority Document No	:FR1905071	(72)Name of Inventor :
(32) Priority Date	:15/05/2019	1)THEVENOT, Benoît
(33) Name of priority country	:France	
(86) International Application No	:PCT/EP2020/062784	
Filing Date	:07/05/2020	
(87) International Publication No	:WO/2020/229321	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a three-phase electrical connection system comprising a socket (S), an electric plug (F) and a magnetic indexing device (1) in two parts, a first part (2) fixed to the socket (S) and a second part (3) rigidly connected to the plug (F), the first part (2) and the second part (3) of the magnetic indexing device each comprising: - a yoke (20, 30); - three identical permanent magnets (201_1, 201_2, 201_3, 301_1, 301_2, 301_3) from a first set, each fixed on a separate annular portion of the yoke; - the three magnets being spaced apart from each other by a first non-zero constant angular interval (I1); - the magnets all having the same magnetic orientation, parallel to the axis of rotation, the permanent magnets of the first part being magnetically attracted by the permanent magnets of the second part.

No. of Pages : 14 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057593 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : SYSTEM FOR HANDLING ELEMENTS

(51) International classification	:B25J0015000000, B29C0049420000, G01N0035000000, H01L0031180000, B29C0049360000	(71)Name of Applicant : 1)OPEN MIND VENTURES, S.L.U. Address of Applicant :C/ Sant Antoni de Baix 45 08700 IGUALADA (Barcelona) Spain
(31) Priority Document No	:19382375.4	(72)Name of Inventor :
(32) Priority Date	:13/05/2019	1)BALSELLS MERCADE, Antoni
(33) Name of priority country	:EPO	2)GUIMERÀ PEDROLA, Antoni
(86) International Application No	:PCT/EP2020/063166	3)CARRER VIVES, Josep M^a
Filing Date	:12/05/2020	4)BALSELLS VIVES, Bernat
(87) International Publication No	:WO/2020/229458	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The system for handling elements comprises a robotic arm (1) provided with at least one tool (2) on one of the ends thereof, wherein the system for handling also comprises a support plate (10) from which a plurality of bristles (20) emerge, the ends of the bristles (20) further from the support plate (10) defining a support surface intended to receive said elements. It provides a system for handling elements which facilitates the handling thereof, meaning, the grabbing, securing, transportation, and releasing thereof.

No. of Pages : 7 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057602 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : EXTERNAL PRESSURE TYPE HOLLOW FIBER MEMBRANE COMPONENT, FILTRATION MEMBRANE COMPONENT, AND MEMBRANE FILTRATION MODULE

(51) International classification	:B01D0063020000, C02F0001440000, B01D0069080000, B01D0071680000, B01D0063040000	(71)Name of Applicant : 1)HAINAN LITREE PURIFYING TECHNOLOGY CO., LTD. Address of Applicant :No.13 Hengsan Road, Yunlong Industrial Park Haikou National High-tech Zone Haikou, Hainan 571137 China
(31) Priority Document No	:201910979092.5	(72)Name of Inventor :
(32) Priority Date	:15/10/2019	1)CHEN, Qing
(33) Name of priority country	:China	2)CHEN, Chen
(86) International Application No	:PCT/CN2020/115881	3)CHEN, Lianggang
Filing Date	:17/09/2020	
(87) International Publication No	:WO/2021/073349	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an external pressure type hollow fiber membrane component, a filtration membrane component, and a membrane filtration module, and provides an external pressure type hollow fiber membrane component, comprising: a housing having an inner cavity; and two end parts respectively provided at two ends of the inner cavity of the housing, the end parts being provided with a plurality of gap passages running through the end parts along the axial direction of the housing and a plurality of water collection passages communicated with each other, and the gap passages and the water collection passages are staggered at intervals. The present disclosure also provides a filtration membrane component and a membrane filtration module.

No. of Pages : 33 No. of Claims : 20

(54) Title of the invention : UNDERGROUND LINE LOCATOR SYSTEM WITH REAL TIME KINEMATIC AND GLOBAL SATELLITE POSITIONING

(51) International classification :G01V0003165000,
G01R0029080000,
G01V0003080000,
G01T0001200000,
G01V0003150000

(31) Priority Document No :62/851498

(32) Priority Date :22/05/2019

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2020/034209
Filing Date :22/05/2020

(87) International Publication No :WO/2020/237146

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)METROTECH CORPORATION
Address of Applicant :3251 Olcott Street Santa Clara,
California 95054 U.S.A.

(72)Name of Inventor :
1)REGINI, Andrzej Zbigniew
2)MOORE, William
3)PETHERICK, Stephen John

(57) Abstract :

A precise line locator is presented that provides precise line location. The locator includes a housing; a wand attached to the housing, the wand including an array of low frequency antennas arranged along the wand, the array of low frequency antennas defining an electromagnetic locate axis of the line locator system; a real-time kinematic (RTK) Global Navigation Satellite (GNSS) antenna attached to the housing; a user interface positioned in the housing; and a processing circuit coupled to the array of low frequency antennas, the RTK GNSS antenna, and the user interface, wherein the underground line locator determines locate data of the underground line based on signals from the array of low frequency antennas and determines a precise position of the underground line locator from the RTK GNSS antenna.

No. of Pages : 14 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202117057607 A

(19) INDIA

(22) Date of filing of Application :10/12/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : LOW TACK HOT-MELT PRESSURE SENSITIVE ADHESIVES

(51) International classification	:C09J0153020000, C08L0053020000, C09J0007380000, A61K0008310000, C08L0091060000	(71)Name of Applicant : 1)BOSTIK SA Address of Applicant :420 rue d'Estienne d'Orves 92700 Colombes France
(31) Priority Document No	:19184785.4	(72)Name of Inventor :
(32) Priority Date	:05/07/2019	1)YE, Xin
(33) Name of priority country	:EPO	2)HE, Peipei
(86) International Application No	:PCT/EP2020/068618	3)LI, Danfeng
Filing Date	:02/07/2020	
(87) International Publication No	:WO/2021/004870	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a hot-melt pressure sensitive adhesive composition comprising at least one styrenic block copolymer, at least one tackifying resin, at least one mineral oil and from 4 to 15 % by weight of at least one wax selected from the group consisting of paraffin waxes, Fischer-Tropsch waxes, ethylene-vinyl acetate waxes and any mixture thereof, based on the total weight of the hot-melt pressure sensitive adhesive composition. The invention also relates to an article comprising a surface coated with such a hot-melt pressure sensitive adhesive composition, to a use of such a hot- melt pressure sensitive adhesive composition and to a process for preparing such a hot-melt pressure sensitive adhesive composition.

No. of Pages : 27 No. of Claims : 15

(54) Title of the invention : HOLOGRAPHIC DISPLAY DEVICE AND METHOD OF USE

(51) International classification	:G03H0001220000, E04D0013030000, F21V0008000000, H04N0005640000, E04D0003280000
(31) Priority Document No	:62/944546
(32) Priority Date	:06/12/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/063423
Filing Date	:04/12/2020
(87) International Publication No	:WO 2021/113719
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)PORTL, INC.Address of Applicant :16443 Knapp Street North Hills,
California 91343 U.S.A.

(72)Name of Inventor :

1)NUSSBAUM, David

(57) Abstract :

A holographic display device for presenting a hologram-like image and a method of use are disclosed. The holographic display device includes a box-like structure, a translucent panel, and light panels extending the entire length of the box-like structure. The light panels position between the box-like structure and the translucent panel. The holographic display device includes a transparent monitor connecting the box-like structure at its front end. The transparent monitor receives and displays an image. The light panels illuminate light and the translucent panel diffuses, blends, and evenly distributes the light in the interior. Transmitted shadowing to the monitor provides a realistic appearance. A unique image capturing system for capturing the image to be displayed on the transparent monitor is also disclosed. The image capturing system transmits the image to the holographic display device in real-time or as a pre-recorded image using wired or wireless protocols.

No. of Pages : 21 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217010998 A

(19) INDIA

(22) Date of filing of Application :01/03/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : METHODS AND COMPOSITIONS FOR CULTURING HEMOGLOBIN-DEPENDENT BACTERIA

(51) International classification	:C02F0003340000, C12M0001340000, C12R0001145000, C12M0001060000, C12N0001380000	(71)Name of Applicant : 1)EVELO BIOSCIENCES, INC. Address of Applicant :620 Memorial Drive Cambridge, MA 02139 U.S.A.
(31) Priority Document No	:62/882021	(72)Name of Inventor :
(32) Priority Date	:02/08/2019	1)KRAVITZ, Valeria
(33) Name of priority country	:U.S.A.	2)SIZOVA, Maria
(86) International Application No	:PCT/US2020/044378	
Filing Date	:31/07/2020	
(87) International Publication No	:WO 2021/025968	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are methods and compositions related to culturing hemoglobin- dependent bacteria.

No. of Pages : 66 No. of Claims : 69

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217011007 A

(19) INDIA

(22) Date of filing of Application :01/03/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ORAL CARE COMPOSITIONS AND METHODS OF USE

(51) International classification	:A61Q0011000000, A61K0008270000, A61K0008190000, A61K0008340000, A61K0008365000	(71)Name of Applicant : 1)COLGATE-PALMOLIVE COMPANY Address of Applicant :300 Park Avenue New York, New York 10022 U.S.A.
(31) Priority Document No	:62/911643	(72)Name of Inventor :
(32) Priority Date	:07/10/2019	1)ARORA, Payal
(33) Name of priority country	:U.S.A.	2)POTNIS, Shashank
(86) International Application No	:PCT/US2020/070618	3)MARTINETTI, Melissa
Filing Date	:06/10/2020	4)HASKEL, Ariel
(87) International Publication No	:WO 2021/072422	5)XU, Yun
(61) Patent of Addition to Application Number	:NA	6)SURIANO, David
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to oral care compositions comprising a cannabinoid, and one or more source(s) of zinc ions and/or stannous ions. The oral care composition may also comprise one or more stannous source(s). Methods of using and of making these compositions is also disclosed herein.

No. of Pages : 34 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217011008 A

(19) INDIA

(22) Date of filing of Application :01/03/2022

(43) Publication Date : 10/06/2022

(54) Title of the invention : ORAL CARE COMPOSITIONS AND METHODS OF USE

(51) International classification	:A61Q0011000000, A61K0031352000, A61K0031198000, A61K0031417200, A61K0008270000	(71)Name of Applicant : 1)COLGATE-PALMOLIVE COMPANY Address of Applicant :300 Park Avenue New York, NY 10022 U.S.A.
(31) Priority Document No	:62/911645	(72)Name of Inventor :
(32) Priority Date	:07/10/2019	1)ARORA, Payal
(33) Name of priority country	:U.S.A.	2)POTNIS, Shashank
(86) International Application No	:PCT/US2020/070619	3)MARTINETTI, Melissa
Filing Date	:06/10/2020	4)HASKEL, Ariel
(87) International Publication No	:WO 2021/072423	5)XU, Yun
(61) Patent of Addition to Application Number	:NA	6)SURIANO, David
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to oral care compositions comprising amino acids and a cannabinoid. Methods of making and use are further provided.

No. of Pages : 32 No. of Claims : 15

CONTINUED TO PART- 2