पेटेंट कार्यालय
शासकीय जर्नल

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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.

(Shri Rajendra Ratnoo)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

25th MARCH, 2022

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REGISTRATION OF DESIGNS	**:**	**19665 - 19781**

THE PATENT OFFICE
KOLKATA, 25/03/2022
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: cgpdtm@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.
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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 25/03/2022
• 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 है:-

1	कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिहन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdtm@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, सूचनाए, 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.

(Shri Rajendra Ratnoo)
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 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.202011052101 A

(19) INDIA

(22) Date of filing of Application :30/11/2020

(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING A PERSONALIZED DIET-PLAN TO ACHIEVE A GOAL

(51) International classification	:G06F0003048400, G09B0019000000, G01C0021200000, G02B0027100000, G06Q0030060000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
A system for managing a personalized diet-plan to achieve a goal is provided. The system includes a personalized diet-plan generation subsystem (30) which receives multiple inputs from a user, generates multiple nutrient reference values required for the user to achieve the goal, and generates a personalized diet-plan for the user to follow. The system also includes an adjustment subsystem (50) which receives a request from the user to alter at least one of food item(s) in the personalized diet-plan with alternative food item(s), generates multiple alternative nutrient reference values required for the user to achieve the goal and generates an alternative personalized diet-plan for the user to follow. The system also includes an effort estimation subsystem (60) operable which estimates an effort in terms of a count of days required to reach the goal upon following the personalized diet-plan for managing the personalized diet-plan on the centralized platform to achieve the goal.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/01/2021

(21) Application No.202111003003 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC TICKET GENERATION FOR TRAFFIC VIOLATION

(51) International classification	:H04L0009320000, G08G0001052000, G08G0001017000, H04W0076500000, G08G0001010000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
A mechanism for generating tickets for traffic light violation and speed limit violation has been invented. The invention has a fast, error-free, bias-free and time stamped ticket generation system that can be used by civil authorities to penalize the violators. Two embodiments of the invention use blockchain technology to record traffic violation incidents identified by RFID sensors. The block generated as a traffic rule violation incident will be accessible to authorized civic agencies to proceed with legal formalities.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2022

(21) Application No.202211004669 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ADDITIVE MANUFACTURING BASED USER CHANGEABLE AND CUSTOMIZABLE LED LIGHT CASE

(51) International classification	:F21Y0115100000, B33Y0010000000, B33Y0030000000, B33Y0080000000, F21V0023040000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The invention focuses on an additive manufacturing (3D printing) based user changeable and customizable LED light case for offering ornamental/decorative aspect to the ceiling or wall. Available in multiple and customizable materials, colors, texture and geometry. The present invention focuses on an additive manufacturing (3D printing) based user changeable and customizable LED light case for offering ornamental or decorative aspect to the ceiling or wall. The invention provides a changeable and customizable LED light, in accordance with the Claims.

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202211012274 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BI-STABLE COMPLIANT HINGES FOR SPECTACLES

(51) International classification :G02C0005220000, G02C0005000000, G06F0001160000, F16C0011120000, G02C0005140000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The spectacles include frame and glass assembly, two temples and hinge structure that pivotally connects each temple with frame and glass assembly. The hinges allow temples closing and opening. The invented bi-stable compliant hinge embodies two semi-cylindrical projections, called cams, one situated at first and second temple end and other at frame end, and three flexural strips consisting two side flexural strips and one mid flexural strip, which pivotally connects the temple cam with frame cam through elastic forces. The elastic forces of flexural strips make the compliant hinge bi-stable, which allows temple to move in the deflection range of 90°. Since no external parts are required for the construction of invented compliant hinges, the overall functional life of the spectacle improves.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202211012655 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : INTELLIGENT DENTAL IMPLANTS IN SURGICAL PROCEDURES

(51) International classification :G16H0050500000, G06F0016340000, G16H0040200000, C12Q0001682700, A61B0003180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Our Invention Intelligent Dental Implants in Surgical Procedures is a Tooth misfortune is exceptionally an extremely normal issue; subsequently, the utilization of dental inserts is additionally a typical practice. Despite the fact that examination on dental embed plans, materials and procedures has expanded in the beyond couple of years and is relied upon to extend later on, there is still a great deal of work engaged with the utilization of better biomaterials, embed configuration, surface change and functionalization of surfaces to work on the drawn out results of the treatment. This paper gives a short history and advancement of dental inserts. It likewise portrays the sorts of inserts that have been created, and the boundaries that are by and by utilized in the plan of dental inserts. At last, it depicts the patterns that are utilized to further develop dental embed surfaces, and current advances utilized for the investigation and plan of the inserts. A hunt procedure was acted to observe qualified articles in English detailing the precision of dental inserts put in people with directed a medical procedure methods. The quest brought about 397 articles for screening. After the choice, 44 articles were incorporated for information extraction. 25 articles announced the precision of static directed a medical procedure with mucosa upheld guides, 22 with tooth-upheld, 3 with bone-upheld and 7 with dynamic directed a medical procedure. The underlying pursuit yielded an aggregate of 387 articles from PubMed. Two autonomous analysts (MNG and KBK) screened through titles and modified works and chose 88 articles for full-text survey. Articles that were not picked by the two analysts were added after understanding. After the full-text survey, 45 articles were chosen for information extraction. The work process for articles determination and purposes behind rejections are introduced in the flowchart Out of 46 articles, 24 revealed precision with mucosa-upheld guides, 20 detailed with tooth upheld guides, 3 with bone-upheld guides and 7 announced exactness with dynamic medical procedure. An outline of the 22 investigations giving an account of the precision of SGS with mucosa-upheld guides shows that 7 were directed in Italy, 5 in Belgium, 3 in Brazil and 3 in the Netherlands. The most successive embed producers were Implement (500 inserts) and Nobel Biocare (423 inserts). The most incessant virtual products for arranging were the Simplant (Dentsply), utilized in 8 investigations and the Procera (Nobel Biocare), utilized in 6 examinations.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202211012729 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR INCREASING THE SOIL STABILITY USING PLASTIC.

(51) International classification :E02D0001020000, C09K0017020000, C09K0017060000, E02D0003120000, C05D0009000000
(86) International Application No :NA
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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
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(57) Abstract :
Our Invention Increased the Soil Stability using Plastic is to a Far reaching earth soils are the kinds of soils whose volume changes with the adjustment of water content. They have a conduct of expanding and contracting that is a significant risk to structures worked over them. Broad soils are bounteously existing soil types in Ethiopia, especially Addis Ababa. This paper shows the results of an endeavor to build up and balance out broad earth soil with plastic jug strips. The plastic strips were ready and added at three different blending proportions (0.51%, 1.2% and 2.3%) by weight and in three different angle proportions (5 mm × 7.5 mm, 10 mm × 15 mm, 15 mm × 20 mm). The exploratory outcomes showed that there was a huge improvement in shear strength boundaries. The expanding and drying up breaking conduct of the dirt were likewise expressively diminished. There was a significant decrease in the ideal dampness content and slight addition in most extreme dry thickness. The ideal plastic size (angle proportion) and plastic substance that outcomes in ideal outcome can be chosen in view of the significance of the choice boundary for a predetermined designing work. Balancing out broad dirt soils with squander plastic containers at the same time settles the difficulties of inappropriate plastic waste reusing that is at present an early stage trouble in most emerging nations. The outcomes got from this concentrate well propose that consideration of this material in broad soils would be viable for ground improvement in geotechnical designing. The shear limit from the tests is introduced as far as the shear strength boundaries, attachment (C) and point of inward grating (f). Both improvement and drop of shear limit were recorded for C and f. The point of inner contact and union capture of the unreinforced soil was viewed as 5.7610 and 49.683 kPa separately. The little worth of contact point is ascribed to the cohesiveness of the dirt. The biggest upsides of C and f for the supported soil was gotten as 8.980 and 62.67 Kpa which was a 57.5% and 26.6% improvement individually. These outcomes were gotten for the 15 20 strip size at 0.51%.

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

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(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202211012730 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DENTAL DISEASES & CARIES PREVENTION USING TOOTH PASTE CONTAINING STRAWBERRY

(51) International classification	:A61Q0011000000, A61K0008190000, A61K0008240000, A61K0008210000, A61K0006200000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Our Invention Dental Diseases & Caries Prevention Using Tooth Paste Containing Strawberry is a 118 without caries teeth were utilized to plan polish examples, and the examples were isolated into 16 gatherings (n = 7). Gauge surface Vickers miniature hardness was estimated for every one of the examples and every one of the tried gatherings were exposed to the pH-cycling system included five demineralization challenges every day for 13 days, and surface Vickers microhardness was then estimated. When every day, examples were uncovered for 31 min after last demineralization challenge of the day to the slurry of every toothpaste containing 1452 ppm F, 1002 ppm F, 454 ppm F, and 0 ppm F. The slurry was in unique pH or acidulated on 6.15, 6.10, or 5.15 pH. The distinction among tried bunch was surveyed by examination of difference and Newman-Keuls test ($P < 0.15$). The most elevated expansion in microhardness was recognized after treatment with toothpaste containing 1450 ppm fluoride (level of expansion in microhardness was 6.20%), and the greatest misfortune was distinguished after treatment with toothpaste containing no fluoride (level of decline was 6.832%), however there was no critical distinction between tried gatherings. The most elevated expansion in microhardness was recognized after treatment with toothpaste containing more fluorides (1452 ppm F) no matter what the corrosiveness.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202211013318 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN IMPLICIT APPROACH FOR POWER QUALITY ASSESSMENT AND CONTROLLING OF SOLAR PHOTOVOLTAIC INTEGRATED CONVERTER SYSTEM

(51) International classification	:H02J0003380000, H02J0007350000, H02M0001440000, H02S0050000000, F24S0050000000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The sensitivity, voltage control, and power quality analysis of solar photovoltaic based grid linked converters are presented in this study. Solar photovoltaic panels make up the entire system, which is connected to the grid via back-to-back converters: a boost converter and an inverter. According to the present study, there is a lack of synchronization between solar photovoltaic and grid, as well as increased distortion and inadequate sensitivity. To address this issue, the impact of a novel design of cuckoo search algorithm and fuzzy logic controller on boost converter and inverter control is being investigated. • In comparison to existing methods, such a revolutionary algorithm design is simple, requires less data calculation, and is cost-effective. In compared to alternative approaches, the ideal design of both controllers gives better sensitivity with little distortion and least voltage variation against any change in internal parameters. On -an STM32F407 controller, the effectiveness of the applied architecture is also verified and validated in a hardware setup of a 2 kW solar module, 3 kW boost converter, and 5 kW inverter.

No. of Pages : 28 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202211013340 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A BLOCK-CHAIN'S DISTRIBUTED LEDGRES BASED COVID GOVERNANCE &TRACKING SYSTEM FOR ACADEMIC ESTABLSIHEMENTS

(51) International classification	:H04L0009320000, G06Q0020380000, H04L0009060000, H04L0029060000, G09B0007000000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present disclosure envisages a block-chain based covid tracking system (100) for students. The system (100) comprises a plurality of computer nodes (102-1, 102-2, …, 102-n), each node (102-1, 102-2, …, 102-n) is configured to receive a set of entries from various authenticated users in relation to students for tracking pre-defined activities for detecting covid. Each node (102-1, 102-2, …, 102-n) is connected to another node in a distributed network and wherein said plurality of computer nodes (102-1, 102-2, …, 102-n) maintain a distributed ledger in relation to said set of entries from each computer node (102-1, 102-2, …, 102-n).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2022

(21) Application No.202211013525 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM FOR HIGHWAY ROAD BREAKAGE DETECTION

(51) International classification :B60Q0009000000, H04M0001725000, G08B0025010000, G06Q0050300000, G07C0009220000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention is a system and method for breakages detection using GPS. Now a day most of the vehicle have GPS tracker; when the person is driving or commuting via vehicle; the person is using the mobile device GPS system. The present invention is to use the built-in GPS tracker of the vehicle or mobile phone to analysis the speed of vehicle. Based on the speed variation; and the geo-proximity sensors will tell the details of the breakages presence on the road. This invention will be helpful for the people to notify in prior about the coming breakage on the road highway. The present invention also has a module and method to verify the detected breakage; whenever a system detects a breakage; it will be reflected on the output display. The vehicle driver or passenger will be notified about the breakage; the passenger or driver can confirm the presence of the breakage on the road or highways. The figure 1 describes the details of the present invention.

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2022

(21) Application No.202211013541 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Smart Automated Compact Machine for Making Different Patterns with Batter of Different Dishes in Hygienic Way

(51) International classification :B33Y0030000000, B33Y0010000000, B33Y0070000000, B29K0105160000, B29C0064118000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A three-dimensional (3D) printer system has been disclosed which can utilize the waste polymers/ polymer beads directly without using polymer filament for additive manufacturing. The system disclosed is a combination of a single screw extruder and an FDM printer. The 3D printer comprises a shredder assembly assembled with a filter assembly to produce shredded waste polymer in fine granule form. The shredded polymer is fed to an extruder assembly to obtain the desired molten form. The molten form of the polymer is then directly deposited on the heated bed layer by layer to obtain a physical 3D part of the desired shape.

No. of Pages : 38 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013696 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : STATIC MALWARE ANALYSIS USING DEEP LEARNING

(51) International classification :G06F0021560000, G06N0003040000, H04L0029060000, G06N0003080000, 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
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(57) Abstract :
There are two main components of malware analysis. One is static malware analysis and the other is dynamic malware analysis. Static malware analysis involves examining the basic structure of the malware executable without executing it, while dynamic malware analysis relies on examining malware behaviour after executing it in a controlled environment. Static malware analysis is typically done by modern anti-malware software by using signature-based analysis or heuristic-based analysis. This patent proposes the use of deep neural networks to learn features from a malware's portable executable (PE) to minimize the occurrences of false positives when recognizing new malware. We use the EMBER dataset for training our model and compare our results with other known malware datasets. We show that using a simple deep neural network for learning vectorized PE features is not only effective, but is also less resource intensive as compared to conventional heuristic detection methods. Our model achieves an Area Under Curve (AUC) of 99.8% with 98% true positives at 1% false positives on the Receiver Output Characteristics (ROC) curve.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013699 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CROP FARMING RECOMMENDATION SYSTEM IN INDIA USING DEEP LEARNING

(51) International classification	:G06Q0050020000, G06N0003040000, C05D0009000000, G16Z0099000000, G06F0017180000
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(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

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(57) Abstract :
Agriculture is India's prime occupation. It plays a major role in Indian economy and provides a lot of employment opportunities for the people of the nation. Nowadays, farmers do not choose the correct crop to cultivate in that specific soil. This directly affects the crop yield, and hence farmers in India face extreme losses on the monetary front. Nowadays, there are many parameters that should be considered while cultivating a certain kind of crop, on a specific type of soil. A crop recommender system, takes in consideration the various parameters of the soil, to predict the best kind of crop to be cultivated. This specific recommender system model, will take into consideration, the parameters like soil moisture content, humidity and temperature. Our framework utilized Machine Learning procedures with the end goal that it proposes the appropriate corps dependent on the temperature. This framework subsequently diminishes the monetary misfortunes looked by the farmers brought about by establishing the ominous harvests and furthermore it gives the information on the occasional characterization of yields what harvest is reasonable for which season. In this specific model of recommendation, neural networks would be used to predict the best type of crop. A certain dataset containing pre taken values would be used to train the model after which, the model would be able to predict the type of crop on its own. The type of crop, also affects the total yield, which makes recommender systems, even more beneficial.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013753 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PROTEIN EXTRACT FROM BAMBOO,BANANA AND PINEAPPLE

(51) International classification	:A61K0036880000, A61K0036899000, A61Q0005120000, C12N0009020000, A61K0038010000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
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(57) Abstract :
In the present invention is describing the process of protein extract and usage of extract protein in different areas for human health. In the present international we have consider bamboo banana and pineapple as our main agriculture source of protein extraction. The same process is applied for all agriculture plant and fruits. Bamboo end pieces , fresh bamboo and bamboo shoots are considered as the good source of protein. Bamboo has more than 160 sources and mostly available all over the world some of these sources are edible and use as food items. Edible Bamboo one of the useful health foods because of their rich contents of proteins, carbohydrates, vitamins, fibres, and minerals and very low fat. The different ethnic communities take fresh or fermented bamboo shoot as one of most preferred traditional food items. In the present invention relates to a kind of method of extracting phytoprotein, particularly relate to a kind of method of extracting phytoprotein from the former waste material of bamboo.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013754 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BAMBOO BASED EYE VISION TEST EQUIPMENT & OTHER MEDICAL EQUIPMENT

(51) International classification :A61B0003032000, A61B0003000000, G06F0003010000, A61B0003060000, A61B0003028000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention of bamboo made eye testing equipment and other medical device at low cost with low weight, The invented novel eye vision testing system with the latest technology inbuilt like micromachines that uses micro-optic, micromechanic, and microelectronic technologies with bamboo structure. As per the present invention bamboo based micromachines which attached with smart phone include a software programmable micro-optic lens and aperture control devices, pico-projectors, Radio Frequency, optical wireless communication, instant photo facility , instant video facility, control links, energy harvesting, storage devices with remote wireless energy transfer capabilities and transfer the images and video immediately with online video conferencing facility. The present invention made invented bamboo based portable lightweight system with long life structure and attachments can measure eye refractive powers, optimize light conditions for the eye under testing, conduct color-blindness tests, implement eye strain relief. The invented equipment has facility for eye muscle exercises via time sequenced imaging.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013803 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PROBE FOR THE DETECTION OF FERRIC IRON IN AQUEOUS ENVIRONMENTS AND METHOD THEREOF

(51) International classification	:C07D0471040000, G01N0021640000, G01N0021770000, A61K0031437000, C09K0011060000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The method of detecting iron in aqueous solutions provides neutral and protonated forms of 7-azaindole (7-AI) as the probe, calculating the change in the absorption spectrum and intensity (absorbance) 7-azaindole after adding Fe3+ in an aqueous media. Further, calculating the change in fluorescence intensity of 7-azaindole after adding Fe3+ in an aqueous medium, calculating the change in fluorescence wavelengths of 7-azaindole after adding Fe3+ in aqueous solution. Further, calculating the change in fluorescence lifetime of 7-azaindole after adding Fe3+ in aqueous media; analysing the measured parameters of absorption intensity, fluorescence intensity, fluorescence wavelengths and fluorescence lifetime of the probe molecule; estimating the amount sensing range of Fe3+ in an aqueous medium based on analysed parameters; estimating the limit of detection (LOD) of Fe3+ using both the forms of 7-AI as the probe.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013811 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PERFORMING BIG DATA ANALYTICS

(51) International classification :G16H0050200000, G06F0016360000, G06F0016260000, G06Q0010040000, G16H0020600000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Accordingly, embodiments herein disclose a method for performing big data analytics comprising the steps of: obtaining big data with introduction of smart devices which are used with a wide-ranging collection of sensors; extracting the obtained data to decide whether the data is to retain, and discard progressively depending on the environment in which the data is initially generated; and collating the data from multiple sources which are often shared to give a large picture to analyze the data. After structured data, data queries are presented in a visual form. Further, the method involves processing the big data which contains interpretation and acquisition of valued information from the data. The information is retrospective analysis having gaining visions about events and activities, and prospective analysis having judging patterns and discerning movements for future from the data.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013853 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WIDEBAND POLYGON RING MICROSTRIP ANTENNA WITH STRUCTURE SHAPED GROUND

(51) International classification	:H01Q0009040000, H01Q0001380000, F03B0017060000, H01Q0013080000, H01Q0001480000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention relates to a wideband polygon ring microstrip antenna (100) with a structure-shaped ground. The wideband polygon ring microstrip antenna (100) with structure-shaped ground comprises a hexagonal ring shape microstrip antenna (100). The hexagonal ring shape microstrip antenna (100) has a rectangular notch at the right and left-hand sides of the outer hexagonal structure of dimensions Lp3 × Wp3; and a ground plane. The width of the hexagonal ring shape microstrip antenna (100) line is Wp1 = 5.0 mm. The width of the hexagonal ring shape microstrip antenna (100) is taken to achieve a 50O characteristic impedance. The width of the hexagonal ring shape microstrip antenna (100) is fabricated and printed on a commercially available FR-4 substrate having thickness h = 1.6 mm. The present invention provides a wideband polygon ring microstrip antenna (100) with structure-shaped ground that can avoid the use of two or multiple antenna (100) to transmit video, voice, and data simultaneously.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202211013900 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : RO REJECT WATER COLLECTION SYSTEM

(51) International classification	:E03B0001040000, F24D0017000000, E03B0007070000, C02F0003320000, F28D0015020000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
In an aspect, the present invention discloses a RO reject water conservation system (100) in high-rise building(s). The system (100) includes at least one RO unit (102) installed in each residential facility of the high-rise building, the RO unit having a drainage pipe (104) to drain residual water therefrom. The system (100) includes a common collection pipe (106) to receive the residual water from the drainage pipe (104) of each of the RO units (102); a reservoir (108) to receive the residual water from the common collection pipe (106); and a motor unit (110) comprising a motor in proximity to the reservoir (108) to uplift water from the reservoir (108) through a pipe (112) connected thereto, to supply the residual water for multiple purposes to each of the residential facility of the high-rise building(s).

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211013922 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN ELECTRO-THERMAL COMBINED STRESS AGING TEST CELL AND ITS APPLICATION THEROF

(51) International classification :G01R0031260000, G11C0029020000, H01M0004587000, G11C0029500000, G01R0031000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A new electro-thermal combined stress test cell, which has been designed and fabricated to conduct accelerated electro-thermal aging on various types of transformer solid and liquid dielectrics. The fabricated prototype product includes all possible real working conditions of the transformers. Also the designed combined stress cell can determine the individual effects of accelerated electrical and thermal aging on the performance of power transformers with different solid dielectrics in conjunction with different oils. The accelerated electro-thermal aging has been performed for a temperature range of 100°C to 220°C along with various electrical stresses from lkV to llkV. Subsequently, several electrical, thermal, mechanical and chemical properties of transformer oil and different paper dielectrics have been determined through various diagnostic tests.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211013943 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MOUTH DISSOLVING FILM OF NORFLOXACIN AND ISONIAZID

(51) International classification	:A61K0009000000, A61K0009700000, A61K0045060000, A61K0031496000, A61K0031196000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
The present invention is related to the field of mouth dissolving film dosage form and its method of preparation. The mouth dissolving film is suitable for the treatment of tuberculosis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211013967 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : EXTRUSION PRESSURE BASED MAGNETORHEOLOGICAL FINISHING SETUP FOR IMPROVED FINISHING OF NON-FERROMAGNETIC WOKPIECES AND THE METHOD THEREOF

(51) International classification :F16F0009530000, A61K0031557500, B24B0001000000, B29C0048920000, F16D0037020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A new electro-thermal combined stress test cell, which has been designed and fabricated to conduct accelerated electro-thermal aging on various types of transformer solid and liquid dielectrics. The fabricated prototype product includes all possible real working conditions of the transformers. Also the designed combined stress cell can determine the individual effects of accelerated electrical and thermal aging on the performance of power transformers with different solid dielectrics in conjunction with different oils. The accelerated electro-thermal aging has been performed for a temperature range of 100°C to 220°C along with various electrical stresses from lkV to llkV. Subsequently, several electrical, thermal, mechanical and chemical properties of transformer oil and different paper dielectrics have been determined through various diagnostic tests..

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211013984 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR ANALYZING THE THINKING PATTERN OF THE PERSON USING WEARABLE SENSORS

(51) International classification	:A61B0005000000, A61B0005024000, G06Q0010100000, A61B0005160000, A61B0005047600
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Now a day, the level of stress and depression is increasing. There is a need for the system to analyze the thinking pattern, ideas, and mental activities of the person; and conclude about the working of mind on the various scenarios. The present invention is related to the one module to analyze the mind and brain activities; to know the person's thinking pattern. Based on the mind signals, the user's activities are monitored. This is a boom in the medical field to analyze the human brain at a low cost and know the thinking pattern. Directly or indirectly, this invention is really helpful in many aspects. The machine learning algorithms are used to convert and study the mind's EEG signals to understand the thinking pattern and the patterns of the mind. Figure 1 shows the architectural view of the invention; figure 2 describes the detailed process of the present invention; figure 3 is about the classification of the EEG frequencies.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211014029 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN INTELLIGENT LOGISTICS SYSTEM BASED ON IOT (INTERNET OF THINGS)

(51) International classification	:G06Q0010080000, H04L0029080000, G06Q0050280000, G06K0017000000, B65G0035000000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention related to an IoT (Internet of Things) based intelligent logistics system wherein the system includes a logistics tracking system; and the intelligent logistics system is characterized by comprising a information module, a monitor and control system, a warehouse management module and an output module. The intelligent logistics system acquires the information of the different goods, warehouses and transportation facilities based on the cloud computing and Internet of things, and the system can sense and monitor each logistics in real time, thereby effectively saving the manpower cost and the time cost; and an e-commerce platform system is provided, so that the openness of logistics and the transparency of the information can be improved.

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211014103 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : QUANTUM MEMORY MANAGEMENT SYSTEM AND METHOD

(51) International classification	:G06F0016901000, G06F0008410000, G06F0016130000, G06T0017200000, H04W0016180000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Disclosed is a quantum memory management system (100) that includes a memory (108) and a processor (110). The memory (108) stores a plurality of instructions; and the processor (110) executes the plurality of instructions. The processor (110) is configured to perform a plurality of operations comprising steps of converting a computation problem of quantum memory into a directed acyclic graph (DAG) or one or more trees of a graph theory; converting a first part of the computation into each vertex; converting a data dependency as a plurality of edges; converting computed values into a plurality of pebbles; representing a quantum memory management game as a plurality of placing pebbles on one or more graph vertices of the DAG; and if the quantum memory management game is concluded, representing as DAG is pebbled.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211014116 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN IN SITU GEL FORMING WOUND DRESSING AND METHOD OF PREPARATION THEREOF

(51) International classification :A61K0036481000, A61K0009000000, A61K0009060000, A61K0038480000, A61K0047340000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
This invention relates to an in situ gel forming wound dressing and method of preparation thereof. Tragacanth is extracted from the root of astragalus. For Tragacanth, a lower and upper transition temperature from sol–gel and gel–sol respectively, and the gel was shown to be thermo-reversible upon cooling. The formulation illustrated in method demonstrated as ideal in situ gel system in the laboratory studies and in pharmaceutical ingredient stability studies. They also demonstrated as stable in dispensing squeeze bottles. The results of in vitro characterization reveal that resultant hydrogels demonstrate typical viscosity properties- namely the gels show shear thinning gel will display decreasing viscosity with increasing shear rate.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211014117 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BLOCKCHAIN AND IOT'S ROLE IN THE INDIAN BANKING SECTOR'S DIGITAL TRANSITION AND DEVELOPMENT OF INTEGRATED DIGITAL BACKING SYSTEM WITH E- COMMERCE PLATFORM

(51) International classification :G06Q0030020000, G06N0020000000, H04L0029080000, G06Q0030060000, G06Q0020380000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
This invention analyzes Block chain and IOT's role in the Indian banking sector's digital transition and development of integrated digital backing system with E- commerce platform. The recent trend is the pace of change driven by Big Data, machine learning, commoditization of technology and Artificial Intelligence (AI). There for the fact that more new non-financial firms have entered and invested in emerging technologies and e-commerce services businesses. New emerging technologies are a key area in the development of Industry 4.0, since it requires the use and integration of different technologies, such as AI and Data Science, and it also provides a platform as a service and software as a service for Industry 4.0. Block chain and IOT's role in the Indian banking sector's digital transition and development of integrated digital backing system with E- commerce platform of claim 1, wherein said that, the use of Block chain and IOT technology by the banking industry also provides it with the foundation it requires to meet the challenges of contemporary competitive economic environment.

No. of Pages : 15 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202211014129 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND SYSTEM OF ON-DEMAND APPLICATION DEVELOPMENT

(51) International classification	:G06F0008410000, G06F0008600000, G06Q0010060000, G06K0009000000, G06F0016958000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
A method (300) and system (100) of on-demand application development is disclosed. The method (300) includes identifying (302) one or more business logics (902) from a data repository and one or more business contexts (1202) associated with an application to be developed, performing (304) a multi-dimensional analysis (802) on the one or more business logics (902) and the one or more business contexts (1202), identifying (306) a technology from a set of technologies and an architecture from a set of architectures for each of the one or more business logics (902), identifying (308) at least one template from a code template repository (218b), for each of the one or more business logics (902), generating (310) a code for each of the one or more business logics (902) and deploying (312) the code on the technology and the architecture identified for each of the one or more business logics (902).

No. of Pages : 60 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014141 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CANCER DETECTION TECHNIQUES IN BIG DATA

(51) International classification :C12Q0001689500, G06F0021570000, G06T0007110000, G01N0035100000, C08G0063910000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A technique and/or system for determining samples derived from biological sources have been developed. Automating portions of the analysis may be accomplished via a computer-implemented method and/or system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014194 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATICALLY IDENTIFYING TUBE ELEMENTS

(51) International classification :G06F0030000000, G06F0030170000, G06F0030200000, G06T0017100000, G06F0119180000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The invention relates to method (200) and system (800) for automatically identifying tube elements in a Boundary Representation (B-Rep)-based Computer Aided Design (CAD) model of a tube. The method (200) includes extracting (201) information corresponding to the B-Rep-based CAD model of the tube; validating (202) geometrical features of the B-Rep based CAD model of the tube; classifying (203) each of a plurality of faces of the tube into one of a set of face types; determining (204) one or more regions on the tube using a set of connected top faces of the tube; generating (205) a plurality of primary tube elements and a set of secondary tube elements based on shapes of the plurality of regions; determining (206) a plurality of element parameters for tube elements; and determining (207) a plurality of tube parameters based on the plurality of element parameters.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014206 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CONTACTLESS SELF SAMPLE COLLECTION DEVICE FOR RNA VIRUS I.E.,COVID-19

(51) International classification	:B01L0003000000, A61B0010000000, C12N0007000000, A61B0005150000, G01N0001020000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention of Besides the predominant ways of transmission of SARS-CoV-2 (namely, contacts and large droplets) the airborne one is increasingly taken into consideration as a result of latest research findings. Nevertheless, this possibility has been already suggested by previous1' studies on other corona viruses including SARS-CoV and MERS-CoV. To describe the state of the art of corona viruses and airborne transmission, a systematic review was carried out using the contact less Covid 19 Sample Collection device. The sample was collected from hospitals, homes, Industries and institutes. The samples were collected in contactless sample collection device tested in house and every collected sample was tested five times by RT-PCR and the results of all the results were almost similar/under the acceptable limit. The stability of collected sample were also tested and found that the collected sample is stable at room temperature for up to 5 days and results are reproducible every day. This device will provide extra care of health care personnel's as well as the people living in community as well as it minimizes the utilization of deep freezers for storage of sample because sample is stable at room temperature for up to 5 days.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014207 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PROVITS-A COMPLETE NUTRITIOUS CHOCOLATE

(51) International classification	:A23G0001540000, A23G0001200000, A23G0001000000, A23G0001480000, A23G0001420000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention of Daily Meal of an individual is not sufficed to provide it all the nutrition a body requires. Also, the habit of eating junk food is also common nowadays. These habits and lack of balanced diet leads to unfit society of unhealthy people. To provide the essentials of nutrition to an individual ProVits can play a major role. It can be added as a part of daily meal which will compensate for the lack of balanced diet. This chocolate is sufficient of common people and a boost-up for gym-enthusiasts. The suitability of ProVits and its incorporation in every day meal should be considered blissful as its is designed to suit every individual, though it is different for different age groups and has soothing taste which is liked by everybody and of all age group.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014302 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN ULTRA COOL TEMPERATURE CALIBRATOR FOR TEMPERATURE SENSOR AND METHOD THEREOF

(51) International classification	:H01L0021670000, F25D0031000000, H01F0006060000, H01L0023340000, H05B0003140000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
An ultra cool temperature calibrator comprises an insulated body (1) formed with a controlling chamber (7) accommodate a FPSC (free piston sterling cooler) (2) having a tip (3) and mounted on an anti-vibration rubber (4). An electrically and thermally conductive block (5) is coaxially disposed on the tip (3) of the FPSC (2). A controlling sensor (6) is mounted with the conductive block (5) and said sensor (6) is electrically connected to a controlling chamber (7) which having a PID controller (8); and Said conductive block (5) is wrapped with a silicon rubber heater (9) on outer surface that defining a heating furnace. A Teflon block (10) is mounted on the conductive block (5) to prevent from thermal energy loss. The present invention provides high stability, radial uniformity of temperature and takes minimum time to reach the set value of temperature.

No. of Pages : 41 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014305 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FORMULATION AND DEVELOPMENT OF ORAL DISINTEGRATING TABLET OF METOPROLOL TARTRATE

(51) International classification	:A61K0009000000, A61K0009200000, A61K0047260000, A61K0031138000, A61K0047380000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention relates to the preparation of oral disintegrating tablets of Metoprolol tartrate, using various pharmaceutical compositions to enhance patient compliance. Metoprolol tartrate was formulated into orally disintegrating using the direct compression method and suitable excipients such as Carbopol 934P, HPMC, carboxy methyl cellulose, Mannitol and ethyl cellulose. The prepared tablets are evaluated for weight variation, thickness, hardness, friability, disintegration time, a simulated wetting test, and in-vitro dissolution. The drug content of all the formulations were in the range of 90.19±0.71%to 99.51±0.07%. Optimized formulation was selected by using the higher mucoadhesive time, mucoadhesive force and higher ex-vivo permeation. Out of all the prepared formulations formulation (F6) was considered as optimize formulations.

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014317 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : 5+ HERBAL HAND SANITIZER

(51) International classification :A61K0008970000, A61Q0019100000, A01N0065000000, A61Q0017000000, A61K0036899000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A hand sanitizer composition (100) comprising 80% of denatured ethanol; 1.5% of glycerol; 12.5% of plant extracts (102) having a combination of neem, giloy, and lemongrass, wherein the neem, the giloy, and the lemongrass is mixed in a predefined volume of rose water; and 6% of aloe vera gel (104).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014348 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : GARBAGE CLASSIFICATION AND SEPERATION SYSTEM BASED ON THE INTERNET OF THINGS

(51) International classification :B65F0001140000, B65F0001000000, G06Q0030020000, G06K0017000000, A44C0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present disclosure is an intelligent garbage bin that includes, a garbage feeding port, a plurality of sub-garbage storage boxes for storing different types of garbage, a camera for acquiring garbage images, and a garbage sorting module for guiding different types of garbage to the corresponding sub-garbage storage boxes. The present disclosure also discloses an intelligent bracelet that includes an electronic tag, as well as an electronic tag identification module for identifying the electronic tag on the user's hands. The garbage image processing device is used to identify the garbage type in the garbage image collected by the camera, and the display module is used to display garbage images acquired by the camera and displays to the display screen. The reward module generates reward points and punishments, store the reward points and punishments in an electronic tag.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014349 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEEP LEARNING AND ARTIFICIAL INTELLIGENT BASED DETECTION AND PREVENTION OF VARIOUS BRAIN TUMOUR USING MACHINE LEARNING AND DATA MINING FOR HEALTH CARE MANAGEMENT

(51) International classification :A61B0005000000, G06N0020000000, G06N0003080000, G16H0050300000, 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

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(57) Abstract :
Brain tumour detection and treatment are becoming easier and more accurate as imaging technologies and artificial intelligence improve. Doctors will be able to discover if their patients have brain tumours more easily thanks to a breakthrough method that enables neurosurgeons to monitor diagnostic tissue and tumour margins in near real time. This will enable them to make more precise diagnoses. Michigan Medicine surgeons believe that by combining deep learning and computer vision, surgery will improve. Not every time you visit the operating room, and speed does not always entail increased expenditures.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014371 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SELF-LOCKING FASTENING DEVICE

(51) International classification :B29C0045770000, B23Q0003000000, E21B0047060000, F17C0013040000, B60R0021013000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A self-locking fastening device comprising a body 1 having two chamfered ends 2, 3 adapted to be fastened on at least two objects, wherein the first end 2 is configured with cavities 4 and the second end 3 is engraved with pins 5 to fit within the cavities 4, a proximity sensor 10 for sensing pins 5 position within the cavities 4, wherein a microcontroller on processing the sensed signals generates command to a motorized ball joint to rotate the pins 5 for locking within the cavities 4, a pressure sensor 6 for monitoring pressure level of the body 1 fastened on the objects, wherein the microcontroller on processing the pressure level signals activates first and second light emitting diodes 7, 8 in case monitored pressure level exceeds/recedes a threshold level respectively, a pouch 11 configured with a convergent nozzle 12 for releasing oil to lubricate pins 5 and a moisture resistant layer for preventing occurrence of rust on the body 1.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014372 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PORTABLE DEFROSTING DEVICE

(51) International classification :F25D0021100000, F25D0021000000, B60S0001540000, F25D0021060000, F24F0011410000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a portable defrosting device, comprising a telescopic frame 1 developed in a manner to defrost ice placed within a freezer, an ultrasonic sensor 2 for detecting height and width of the freezer and the microcontroller generates a command to adjust height and width of the frame 1, an extendable tray 3 for collecting melted frost, the tray 3 is contrived on a pair of railings 4 that assist in providing movement to the tray 3 across the frame 1, plurality of nozzles 5 configured with a peltier unit for dispersing hot air on the frost, wherein the peltier unit regulates temperature of air passing through the nozzles 5, an AI camera 6 for capturing images of frost within the freezer, wherein the microcontroller generates a command to actuate the nozzles 5, a temperature sensor 7 for detecting temperature within the freezer, wherein the microcontroller generates a command to actuate the peltier unit.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202211014373 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TIRE REPAIRING DEVICE

(51) International classification :H03K0017950000, B65F0001140000, B60C0023040000, G01V0003100000, C08L0101000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a pair of motorized rollers 1 configured on a sliding rack 2 are installed on a body 3 for providing a space for positioning a tire to be repaired, an inductive proximity sensor 4 with an Artificial Intelligence (AI) camera 5 for determining location and diameter of the metallic object(s) embedded in the tire, a microcontroller for processing combined signals received from the sensor 4 and camera 5 for subsequently generating sequential commands, a motorized iris gripper 6 for grabbing and transferring the detected metallic object(s) onto a waste bin 8, a telescopic suction rod 9 for grabbing and inserting pit stop plug(s) 10 to a hydraulic gun 11, that actuates for triggering release of plug(s) 10 into the pore(s) located on the tire, and a motorized telescopic cutter 14 for removing stalk of the plug(s) 10 for facilitating smooth working of the tire.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202211014672 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MITIGATING ROAD ACCIDENTS THROUGH IOT ENABLED DEVICE AT CONTROLLED SECTION OF EXPRESSWAY.

(51) International classification	:G08G0001160000, G07B0015060000, B60W0030180000, E01C0001000000, G08G0001070000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Generally, in expressway the first lane is overtaking lane, adjacent to it; is car lane, adjacent to it; is truck lane i.e. heavy vehicles lane and adjacent to it is slow moving vehicles. The truck drivers travel in overtaking lane for a long stretch in expressway. This makes problem to other vehicles in overtaking from right to left. The overtaking is restricted by these types of heavy vehicle i.e trucks movement in overtaking lane. So, this IOT enabled device first make warning to the truck drivers after passing through controlled sections at expressway by functioning of weight sensors. By this way, the truck drivers will get warned that they are travelling in wrong lane. This invention is also helpful in mitigating road accidents and is much needed invention for persons travelling by their vehicles on expressway.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2021
(21) Application No.202021033190 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A TELESCOPIC LOCKING PROXIMAL BOLT

(51) International classification :B23P0019060000, E21B0043260000, A61B0017740000, A61B0017860000, E21B0043267000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Abstract A Telescopic Locking Proximal Bolt The present invention provides a Telescopic Locking Proximal Bolt (P). Said Telescopic Locking Proximal Bolt (P) comprises: a sleeve (1), a screw (2), a stopper (3) and a plurality of Threads (4). The present Telescopic Locking Proximal Bolt (P) removes the Z-effect with the help of threads on screw and prevents from backing out of the screw. It allows controlled collapse at fracture site and thus provides collapsible structure. (Fig.1)

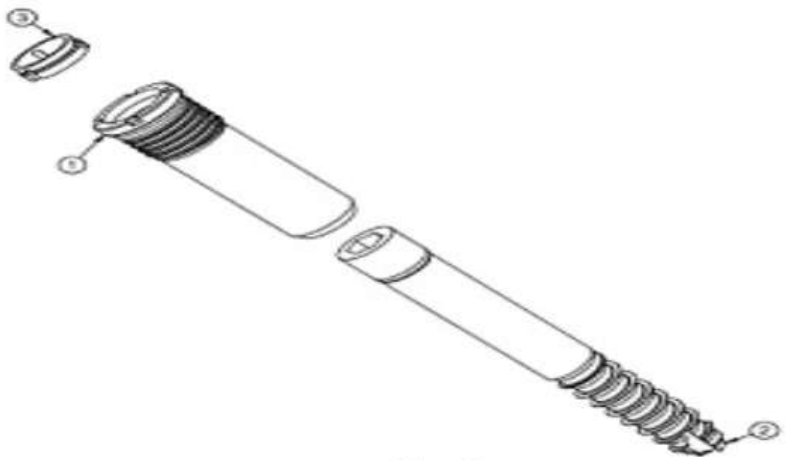

Fig. 1

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2020
(21) Application No.202021047505 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CRYOGENIC APPARATUS AND AN INTERCONNECTED NETWORK THEREOF FOR MULTI-CORE QUANTUM PROCESSOR ARCHITECTURE.

(51) International classification :G06N0010000000, G06F0009300000, H04W0004020000, B82Y0010000000, H03K0019195000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT Title: CRYOGENIC APPARATUS AND AN INTERCONNECTED NETWORK THEREOF FOR MULTI-CORE QUANTUM PROCESSOR ARCHITECTURE. The present invention provides an interconnected network of cryogenic apparatus for constituting a scalable quantum processor system comprising different cryogenic apparatus which are laterally interlinked, in a retractable way, at the base temperature to form a network array, for example in a linear and/or cross-bar way. Each of the cryogenic apparatus houses one or more quantum processor chip with wiring from its room temperature flange, wherein two nearest cryogenic apparatus are linked together using linearly extendable guide arms, made of highly thermally conducting material (such as oxygen free high thermal conductivity (OFHC) copper) such as that the housed processor chips are also linked.

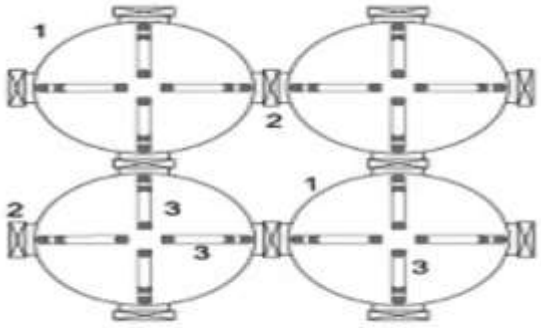

Fig 1

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2020

(21) Application No.202021047878 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VARIABLE SPEED CYCLE.

(51) International classification :H04N0005783000, B62M0011140000, G01J0001420000, F25B0049020000, D06F0105460000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
The variable speed cycle, comprising of two transmission assemblies with different transmission ratios that are arranged with different chains between the middle axle and the rear axle / hub, wherein the said system displays a larger transmission ratio system (from the front), which is installed on the middle axle in the left direction, comprising of a big freewheel, a push-push switch, pedal shaft and a small freewheel with a hub on the rear axle(hub), which are joined together by a chain/big freewheel. The freewheel body has two holes, wherein one end of the bowden cable connected to the ratchet sheet of the freewheel, and the other end is connected to the push-push switch; wherein, by pushing the push-push switch by the bicycle user through foot, the big freewheel can be either locked or unlocked, through which the larger transmission assembly can be switched to smaller transmission assembly. FIG1

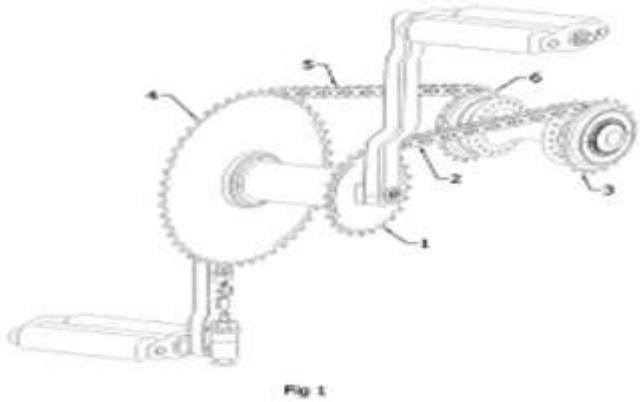

Fig 1

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/01/2021

(21) Application No.202121000896 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : JAW STRETCHING APPARATUS

(51) International classification	:A61H0001020000, G09F0009000000, B30B0001180000, B08B0001000000, B26D0003160000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
A jaw stretching apparatus is disclosed. A push button mechanism (130) is provided and is having at least two push buttons disposed on said housing (102) and connected to said motor (112) and lead screw (110), wherein said push button mechanism (130) is applied in a manner when a first button from said at least two push buttons is pressed, a distance between said upper and lower elements (120, 122) of said oral unit increases, and when a second push button is pressed, said distance between said upper and lower elements (120, 122) decrease and thereby a distance between said adjustable plates (124) of said upper and lower elements (120, 122) is decreased and increased, wherein when said buttons (130) are pressed, said motor (112) beneath said frame (108) is activated and generates a rotational motion inside said lead screw (110). A display interface (134) configured to receive detected and measured value of, pressure applied on said load cell (132).

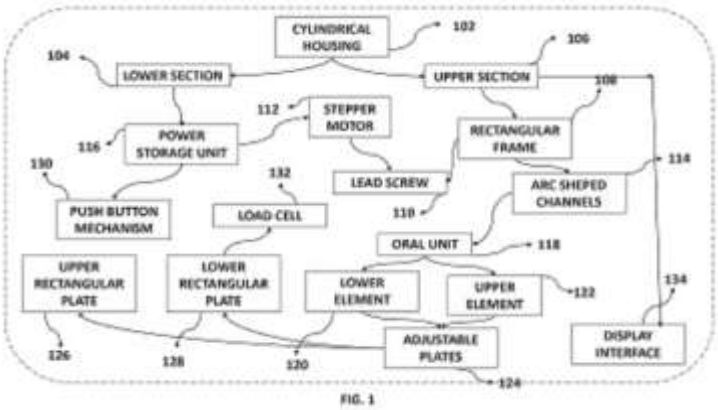

FIG. 1

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2021

(21) Application No.202121005301 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : STREET LIGHT DEVICE

(51) International classification	:H05B0047105000, H05B0047110000, G01J0001040000, F21V0023040000, H05B0047190000
(86) International Application No Filing Date	:NA :NA
(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

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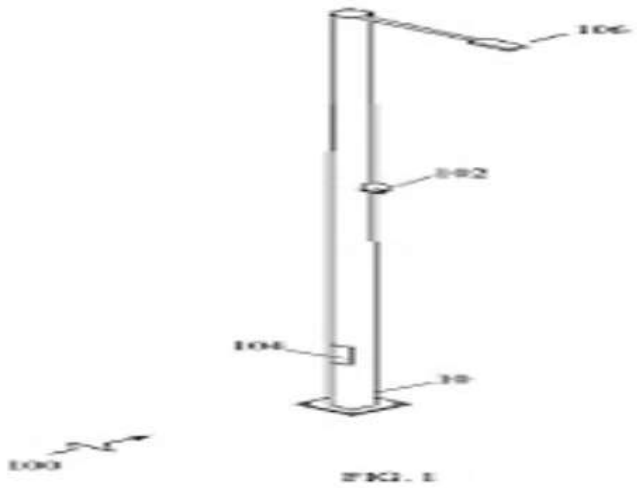
(57) Abstract :
STREET LIGHT DEVICE The present invention discloses a street light device 100 for controlling intensity and illumination of streetlight The street light device 100 includes a sensor unit 208, a control unit 102, a driver unit 310, a power supply unit 104 and a light unit 106. The control unit 102, when coupled with the sensor unit 208 and driver unit 310, is configured to control the illumination of the light unit 106. The control unit 102 includes a storage unit 306, a controller 302 configured with a selection module 304 and a power switch 308. The control unit 102 selectively activates the driver unit 310 in accordance with the signals received from the sensor unit 208. The device 100 is configured to control intensity and illumination of light based on real time scenario. The device 100 reduces excessive illumination of lights at times where illumination is not required and protects the components of the device 100 from voltage spikes. FIG. 1 (for publication)



No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2021

(21) Application No.202121007438 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PROCESS FOR CATALYTIC THERMO LIQUEFACTION OF PLASTIC WASTE INTO LIQUID HYDROCARBON OIL AND CATALYST THEREOF

(51) International classification :C10G0001080000, B01J0035000000, C10L0001020000, B01J0037080000, C10G0045640000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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-

(57) Abstract :
PROCESS FOR CATALYTIC THERMO LIQUEFACTION OF PLASTIC WASTE INTO LIQUID HYDROCARBON OIL AND CATALYST THEREOF The present invention provides a process for catalytic thermo liquefaction (CTL) for converting plastic waste into hydrocarbon oil in presence of heterogenous transition metal catalyst at non-stringent operating conditions. The present invention also provides a composition of said catalyst and method for preparation of transition metal catalyst for CTL process. The novel transition metal supported catalyst provides a complete conversion of plastic waste to hydrocarbon oil with greater than 90% yield and negligible char and gas formation. The product hydrocarbon oil is energy rich substrate and can be converted into multiple value added products, transport fuels and/or fuel blends.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2021

(21) Application No.202121009507 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN ORAL NUTRACEUTICAL FORMULATION FOR RELIEVING SYMPTOMS OF MENSTRUATION

(51) International classification	:A61K0036810000, A23L0025000000, A61K0036185000, A23G0001000000, A61K0036220000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
AN ORAL NUTRACEUTICAL FORMULATION FOR RELIEVING SYMPTOMS OF MENSTRUATION The present invention relates to an oral nutraceutical formulation for relieving the symptoms of menstruation and a process of preparation of the formulation. The formulation consists of the ingredients dark chocolate and plant supplements including Ashwagandha powder, Shatavari powder, Dried Ginger powder, Ashok Sal powder, Nagkesar flowers, Turmeric, Cinnamon and Haritaki fruit. The formulation further includes Flaxseed oil, Sea salt and a combination of nuts and seeds. The formulation aims at relieving the symptoms of menstruation, Premenstrual syndrome (PMS) and Poly cystic ovary syndrome (PCOS) including bloating, mood swings, food craving along with relief from pain and cramps.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2021
(21) Application No.202121011810 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MECHANISM FOR ADJUSTING SEAT OF TWO-WHEELED VEHICLE AND METHOD FOR ADJUSTING THEREOF

(51) International classification	:B60N0002020000, B60N0002060000, B60N0002225000, B60N0002230000, H01H0025000000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT MECHANISM FOR ADJUSTING SEAT OF TWO-WHEELED VEHICLE AND METHOD FOR ADJUSTING THEREOF The present disclosure relates to a arrangement for adjusting a seat assembly(20) of a two-wheeled vehicle. The seat(20) provided on to a seat pipe(3) of a frame assembly(1). The arrangement comprises a rod(9) defined by cylindrical threaded body, a first nut(7) and a second nut(8). The rod(9) is configured to be received in the seat pipe(3). The first nut(7) has a threadable shank(7a) and the second nut(8) configured to be threadably received on the rod(9), to thereby restrict the rotation of the first nut(7). The threads of the first nut(7) and the second nut(8) are complementary to the threads of the rod(9). The complementary threads of the rod(9) and the first(7) and second nut(8) provides easy lowering and raising of the seat rod(9), advantageously the adjustment of seat(20) does not require to use both hands of the rider, thereby the seat adjustment mechanism is convenient and reliable to use. s

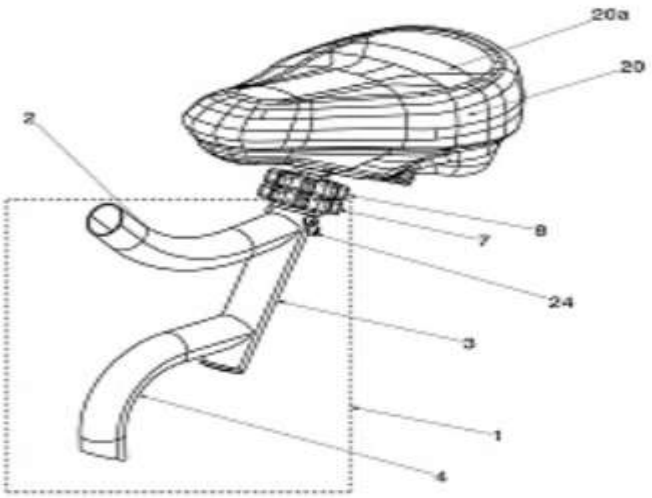

FIGURE 3

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2021

(21) Application No.202121011813 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SPLIT SWING ARM ASSEMBLY FOR A TWO-WHEELED VEHICLE

(51) International classification	:F01L0001180000, F01L0013000000, B60L0007240000, A47C0007540000, B62K0025280000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT A SPLIT SWING ARM ASSEMBLY FOR A TWO-WHEELED VEHICLE The present disclosure relates to swing arm assemblies. The disclosed split swing arm assembly (15) comprises a first tine (4A) and a second tine (4B). The first tine (4A) is defined by a hollow body, a ring (3) secured to an operative front end of the body, a bearing (9) provided in the ring (3), a slot (22) configured on an operative rear end of the body and a bracket (7). The bearing (9) is configured to be press-fitted on a bottom bracket (10) in the swing arm ring (3). The bearing (9) is configured to facilitate pivoting of the body about the bottom bracket (10). The slot (22) is configured to slidingly receive an operative end of a rear wheel axle (16) therein. The bracket (7) is secured to an operative inner surface of an operative front half of the body. The second tine (4B) is a mirror-image of the first tine (4A).

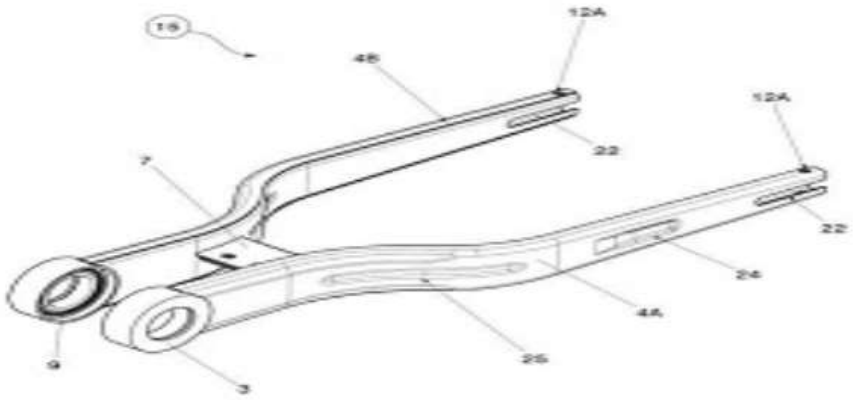

Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2021

(21) Application No.202121012280 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A BATTERY PACK ASSEMBLY

(51) International classification	:H01M0002100000, H01M0002200000, H01M0002020000, H01M0010460000, H01M0010052500
(86) International Application No Filing Date	:NA :NA
(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

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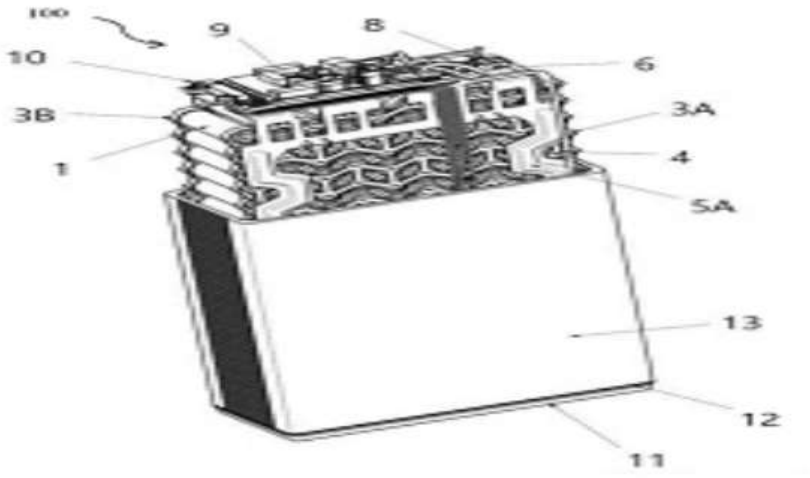
(57) Abstract :
ABSTRACT A BATTERY PACK ASSEMBLY The present disclosure relates to a battery pack assembly(100) having a plurality of cells(1) enclosed in a casing(13) and a socket connector(16) attached thereon. The socket connector(16) configured on operative top surface of the casing(13) to enable external devices that need power. The assembly(100) comprises a cage defining a first tray(3a) and a second tray(3b) having a plurality of holders(2) therein, a strip arrangement defined by a plurality of strips(4), (4a) and (4b), a first half and second half frame(5a, 5b), a battery management system (BMS) (9), and a pair of conducting cables (32,33). The first and second tray (3a, 3b) has the plurality of cells(1) uniformly sandwiched therebetween. Advantageously, the defined gap between the casing(13) and the monolithic battery (40) package prevents from electric shock and helps in thermal management of the assembly(100). Also, since the assembly(100) is un-potted, therefore provides easy recycling or repairing of the cell.



No. of Pages : 55 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/03/2021

(21) Application No.202121012521 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN ARRANGEMENT FOR ACCESSING THE BATTERY PACK OF AN ELECTRIC VEHICLE

(51) International classification	:H01M0002100000, B62M0006900000, H01M0010420000, B62M0006550000, B25C0001060000
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
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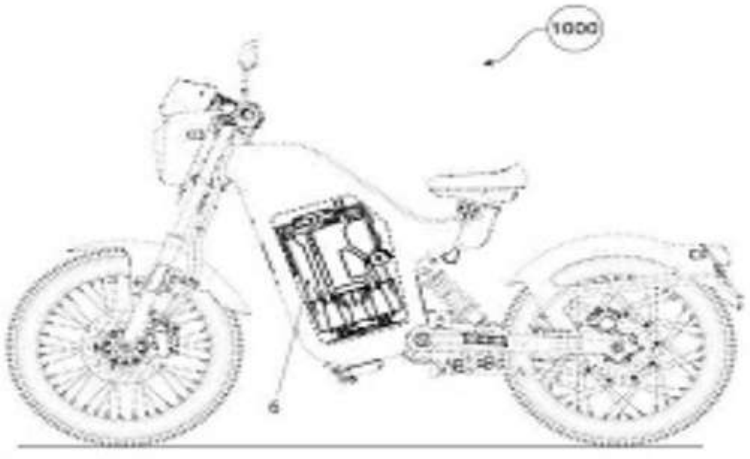
(57) Abstract :
ABSTRACT AN ARRANGEMENT FOR ACCESSING THE BATTERY PACK OF AN ELECTRIC VEHICLE The present disclosure discloses a mechanism (100) for accessing the battery pack (6) of an electric vehicle (1000). The mechanism (100) comprises a battery holder (12) configured to be attached to the bottom surface of a compartment defined on the body of the vehicle (1000). The battery holder (12) is configured to secure the battery pack (6). A battery sliding mechanism is configured to be attached to the bottom surface of the compartment of the vehicle (1000) to allow sliding of the battery holder (12). Bottom hinges (14) are configured on an operative bottom of the holder (12) for angularly displacing the battery holder (12) about the bottom hinges (14) to allow ease of access to the battery.



No. of Pages : 27 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/03/2021

(21) Application No.202121013468 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A CHAIN-DRIVE ADJUSTMENT MECHANISM FOR A TWO-WHEELED VEHICLE

(51) International classification	:B65G0023440000, F16H0019060000, G02F0001000000, F16B0007040000, E04B0001580000
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
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(57) Abstract :
ABSTRACT A CHAIN-DRIVE ADJUSTMENT MECHANISM FOR A TWO-WHEELED VEHICLE The present disclosure discloses a chain-drive adjustment mechanism (100) for a two-wheeled vehicle. The vehicle has a rear axle shaft (11) supported in a swing-arm (1) of the vehicle and a chain-drive (2) configured to be engaged with a front sprocket (13) and a rear sprocket (14) of the vehicle. The mechanism (100) comprises a slot (16) configured on the swing-arm (1) of the vehicle. A chain adjuster bracket (3) is mounted on an end of the rear axle shaft (11). A chain adjuster bolt (4) is configured to be fastened on an operative rear end of the chain adjuster bracket (3). The chain adjuster bolt (3) is configured to be displaced in the slot (16). A king pin (7) is configured to be fastened to the swing-arm (1) and support the chain adjuster bolt

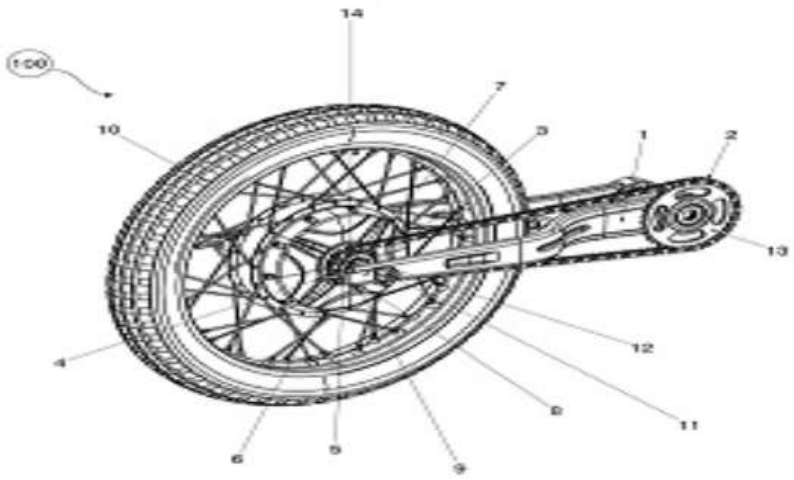

FIGURE 1

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/03/2021

(21) Application No.202121013469 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A STORAGE BOX FOR TWO-WHEELED VEHICLE AND METHOD OF ASSEMBLING THEREOF

(51) International classification	:H05K0005000000, H02J0007000000, B60R0011000000, A47C0007620000, E05G0001000000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT A STORAGE BOX FOR TWO-WHEELED VEHICLE AND METHOD OF ASSEMBLING THEREOF The present disclosure relates to a storage box for a two-wheeled vehicle. The storage comprising a mounting means for attaching said storage box(3) on the seat pipe(15); a first half (4) and a second half (5) defining said storage box (3), said first half (4) and said second half (5) configured to be received and mounted to said mounting means (8); and a door panel (6) configured with a locking means (7), said door panel (6) configured to be received in said first half (4) and said second half (5) to form the desired storage box (3). Advantageously, the storage box (3) is a compact box; therefore it provides enough storage space for storing the first aid kit. Also, since the storage box is provided with the locking means, therefore it allows the rider to securely store valuables or essentials therein.

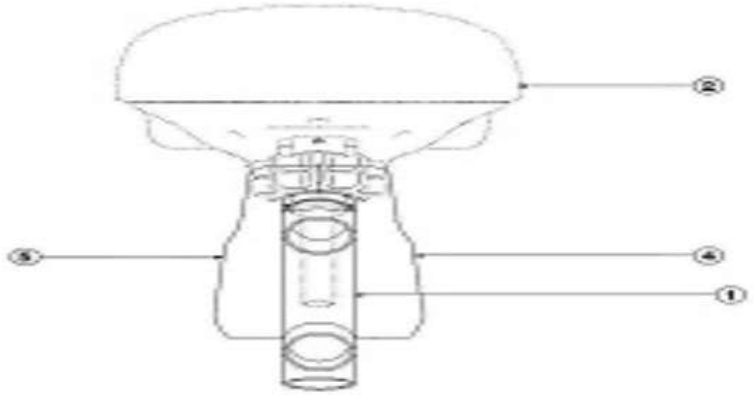

FIGURE 1

No. of Pages : 39 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/05/2021

(21) Application No.202121020713 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NOVEL 3,4-DIHYDROPYRIMIDIN-2(1H)-ONE COMPOUNDS, PROCESS FOR PREPARATION THEREOF AND THEIR USE.

(51) International classification :A01N0043540000, A01N0043560000, C07D0239470000, A61K0031505000, C07D0239400000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to novel 3,4-dihydropyrimidin-2(1H)-ones. The present invention also provides a green process for preparation of novel 3,4-dihydropyrimidin-2(1H)-one. The novel 3,4-dihydropyrimidin-2(1H)-one have excellent anticancer activity.

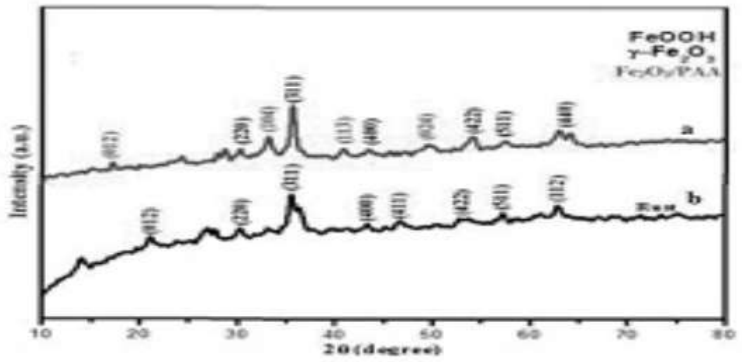

Fig. 1

No. of Pages : 46 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/07/2021

(21) Application No.202121031752 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD FOR MARKING IDENTITY CODES ON A CARTRIDGE

(51) International classification :H04L0029120000, H04W0004800000, H04W0012020000, G09F0003000000, C12Q0001681600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a method (100) for marking unique identity codes (10) on a cartridge (20). The method (100) includes printing multiple unique identity codes (10) on a predefined location (20a) over the cartridge (20). The unique identity codes (10) are marked on the polymeric film (30) in such a way that the unique identity codes (10) are visible along a circumferential area (40g) of the cylindrical cartridge (20).

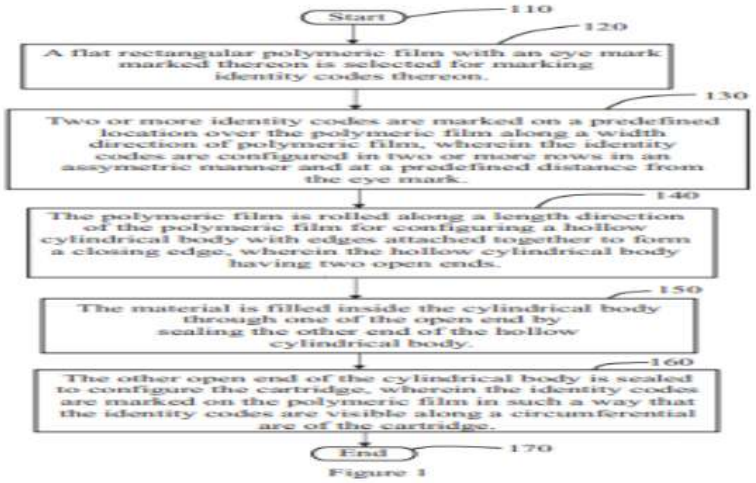

Figure 1

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/08/2021

(21) Application No.202121037537 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRELOAD ADJUSTER FOR FRONT FORK SUSPENSION OF A TWO WHEELED MOTOR VEHICLE

(51) International classification	:B62K0025080000, F16D0065560000, F16C0025060000, B60Q0001068000, F16F0009460000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT Title: Preload Adjuster for Front Fork Suspension of a Two Wheeled Motor Vehicle The preload adjuster (100) in accordance with the disclosed invention comprises of a top cap (1), a gear (5), an adjuster screw (10), an O-ring (15), a fork bolt (20), an O-ring (25), a lock nut (30), a sliding nut (35), a supporting piece (37), a restricting disk (40), a locking screw (45), a spacer tube (50), a washer (60), and a main spring (65). The preload adjuster (100) provides accurate reading of the extent of pre-compression/preload already provided to the main spring of each fork leg of the front fork on which it is installed even beyond one complete rotation of the adjuster screw (10). The preload adjuster (100) also has a great resolution allowing multiple rotations of the adjuster screw (10) to be accurately indicated in its display window (1a). The preload adjuster (100) also prevents over rotation of the adjuster screw (10) and hence over compression of the main spring (65) of the front fork suspension.

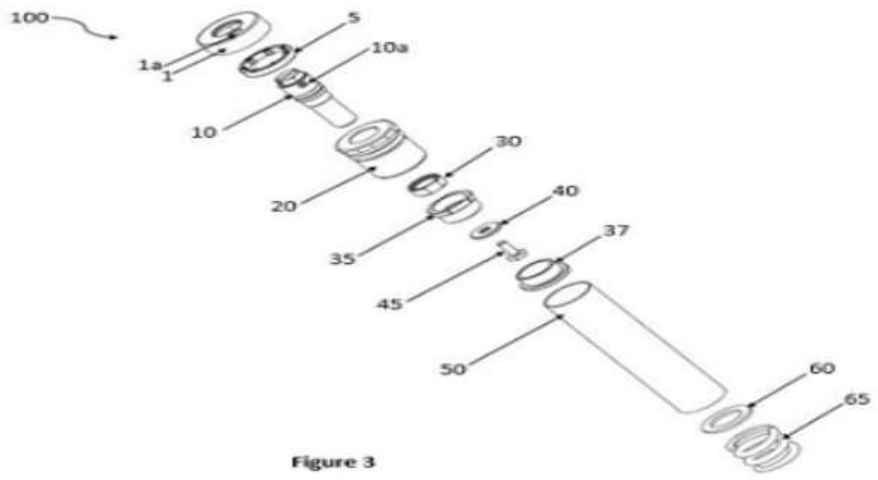

Figure 3

No. of Pages : 44 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/09/2021

(21) Application No.202121040939 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CALIBRATION DEVICE AND METHOD FOR AUTOMATICALLY CALIBRATING SMART ENERGY METER AT EDGE LOCATION

(51) International classification :G01R0035040000, G01F0025000000, H04W0056000000, H03F0001560000, G01D0004000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Himanshu Dubara
Address of Applicant :National institute of Technology Suratkhal, NH 66, Srinivasnagar, Suratkhal, Mangalore 575025, Karnataka, India ---------- ----------

(57) Abstract :
ABSTRACT Calibration device and method for automatically calibrating smart energy meter at an edge location Embodiments herein provide a method for automatically calibrating a smart energy meter (1000) using a calibration device (100) at an edge location. The method includes receiving, by the calibration device (100), a set of readings from the smart energy meter (1000) and inputting, by the calibration device (100), the set of readings through a regression model (184). The method also includes generating, by the calibration device (100), corrected readings for the set of readings based on the regression model (184); and automatically calibrating, by the calibration device (100), the smart energy meter (1000) using the generated corrected readings for the set of readings from the smart energy. FIG. 3

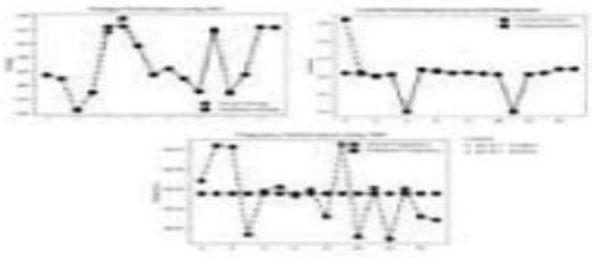

FIG. 3

No. of Pages : 34 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2021

(21) Application No.202121042347 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MULTI BANK SHARED DEBIT CARD

(51) International classification	:G06Q0020260000, G06Q0020340000, G06Q0020200000, G07F0009020000, G06K0019040000
(86) International Application No Filing Date	:NA :NA
(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

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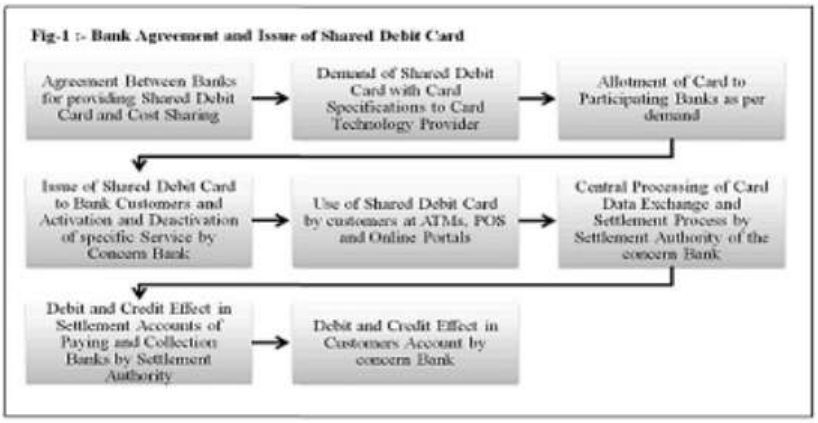
(57) Abstract :
My Invention Multi Bank Shared Debit Card is single debit card for multiple banks. I have designed a Debit Card for reducing the cost of issuing debit card and increase the easiness to carry debit card . I have converted our ordinary debit card in to multi bank debit card. I used five EMV Chips and multiple piece of MICR strip for providing multi bank debit card facility. This invention is to reduce the cost of issue of debit card to bank customers, to reduce the burden of carrying multiple debit cards, This invention is to an attempt to reduce difficulties and provide easiness for bank customers while carrying and handling of more than one debit card.

BRIEF DESCRIPTION OF THE DIAGRAM



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/10/2021

(21) Application No.202121048995 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BOTTLE SHAPED BLOCK FROM WASTE

(51) International classification	:C04B0028040000, C04B0028020000, E04B0002020000, B29C0065760000, B65D0001020000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention whose title is Bottle shaped block from waste is relates to preparation and use of bottle or container with interlocking and lightweight concrete prepared without use of cement as a binding material and excludes the use of natural sand by use of expanded clay aggregator. It also interlocks with each other to give strength and shape. The disclosed invention comprises the container or bottle used for making of wall or paver blocks or other civil structures by mean of interlocking with each other and it is filled with the waste material which in turn provides the strength to the container and also reduces the pollution towards environment.

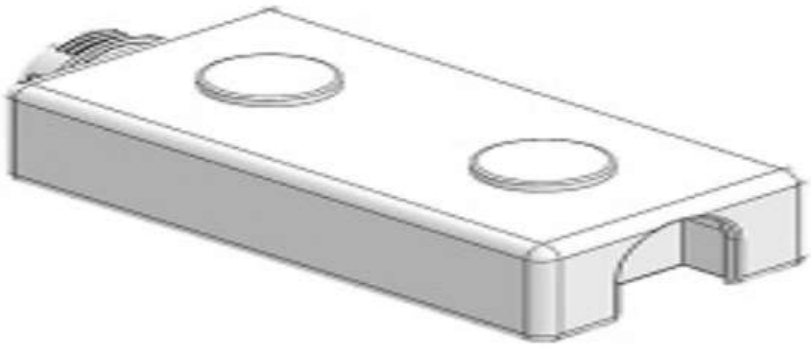

Figure 1 of 4

No. of Pages : 6 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/11/2021

(21) Application No.202121054869 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MPC-ACADEMY DEVELOPMENT: METHOD AND PROCESS TEACHING AND LEARNING IN HIGHER EDUCATION USING MACHINE LEARNING

(51) International classification	:G06Q0050200000, G09B0019000000, G06F0012086200, G09B0023280000, C07K0014470000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT Our Invention MPC-Academy Development: Method and Process Teaching and learning in higher education Using Machine Learning is a investigates the peculiarities of the development of the utilization of man-made brainpower in instructing and learning in advanced education. It examines instructive ramifications of arising advancements in transit understudies learn and how establishments educate and advance. Late mechanical progressions and the speeding up embracing new advances in advanced education are investigated to foresee the future idea of advanced education in this present reality where man-made reasoning is essential for the texture of our colleges. We pinpoint a few difficulties for organizations of advanced education and understudy learning in the reception of these innovations for instructing, learning, understudy backing, and organization and investigate further headings for research.

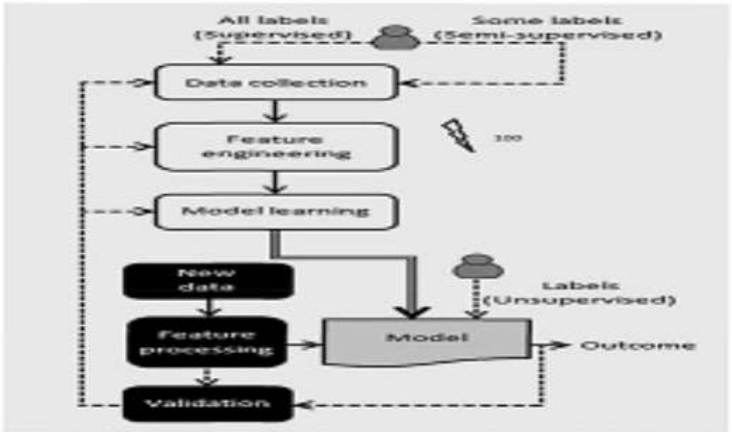

FIG.1: MPC-Academy Development: Method and Process Teaching and learning in higher education Using Machine Learning. Flow chart.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/12/2021

(21) Application No.202121056763 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : THERMAL ANALYSIS ON BATTERY SYSTEM FOR ELECTRIC VEHICLE (BATTERY COOLING)

(51) International classification	:H01M0010613000, H01M0010625000, H01M0010653000, H01M0010655400, H01M0010647000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The life time of a battery, its performance and safety is totally depended on the temperature of the battery system. Hence, the temperature plays a vital role in the in the performance of a lithium (Li) ion battery. A high demand of electric vehicle market has boosted the production of lithium-batteries. In the battery development a large focus is given to thermal-management of battery systems. Liquid coolants are used widely due to efficient cooling Present study investigated Li Batteries with two cooling plates, were the lithium iron phosphate battery was used in designing. Were a battery model was designed and verified. The study was to optimize the: cross-section size, and the number of coolant channels of the cooling plate. Very high or Very low temperatures also affect its performance, and pose a significant safety hazard. The surrogate model was then utilized to further optimize geometry of the cooling plate. The comparison of the present study with the previous showed an appreciable minimum difference in the temperature of the cooling plate. Hence, reducing the pressure drop. The study also revealed that with increase in cross-section, the battery temperature difference decreases hence reducing the pressure drop. This drop is also observed with increase in number of the coolant channel also increase in coolant flow rate. Hence it is particularly important to design a battery module with good heat dissipation performance.

3-D model:-

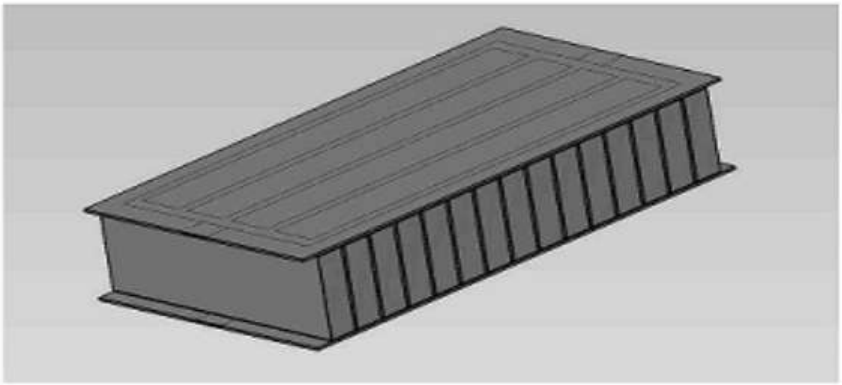

Fig.1 Battery module of EV

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2021

(21) Application No.202121057691 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF PORTABLE SOLAR POWERED DESALINATOR BASED ON ANTISCALANT AND REVERSE OSMOSIS PROCESS.

(51) International classification :C02F0001440000, C02F0103080000, B01D0061020000, C02F0001140000, 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

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(57) Abstract :
ABSTRACT The proposed design is run by a stand-alone Solar system with two solar panels of 50 watt capacity, further connected to 12 Volt DC pump. The total energy requirement of this design is estimated to predict the capacity of solar panel, sizing the charge controller, power supply, and storage system. Purification of saline water using portable solar powered desalination is an efficient solution to the water scarcity at ships, which represents a promising sustainable solution of desalination ponds as well as desalination with electro dialysis. This innovation idea also describes current development of reverse osmosis process that can employ a new approach to desalinate of brackish water with salt content of less than 10,000 mg/L and or seawater which salinity in a range of 30,000 to 44,000 mg/L. Dated this 10th day of Dec, 2021 Applicant(s) Mr. Kalpesh Sunil Kamble et.al

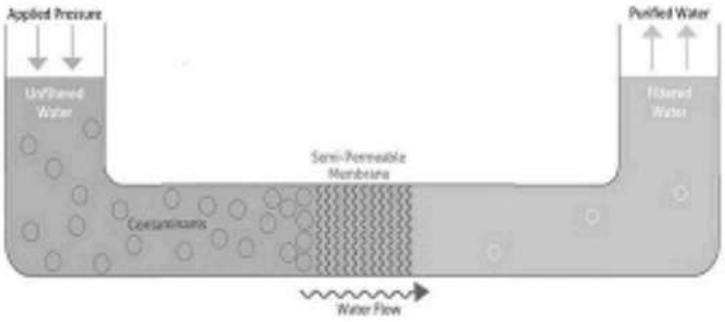

Figure No. 1 Reverse Osmosis (R.O.) process

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/12/2021

(21) Application No.202121059139 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : REAL TIME DETECTION OF MILK ADULTRANTS USINGSENSOR ARRAY

(51) International classification :G01N0033040000, G01N0033000000, A01J0005013000, A01J0005040000, G01N0033280000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The system requires an external pumping mechanism for milk sample. The small sample of 100ml is used for adulteration detection. Adulterant detection is done using array of sensors consisting of PH sensor, temperature sensor, conductivity sensor and gas sensors.

FIG. 1 shows the block schematic of automatic milk adulteration system

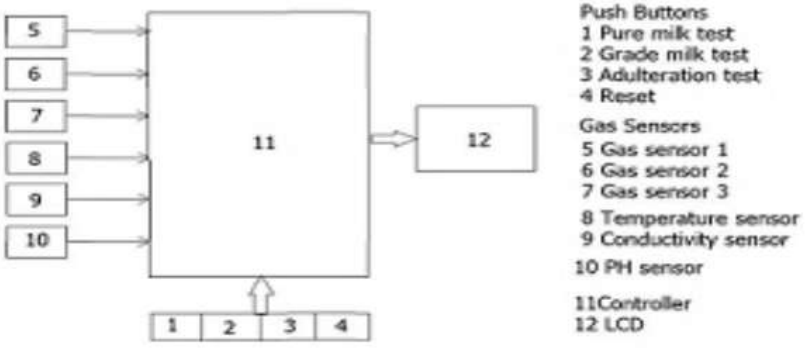

Figure 1

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/12/2021

(21) Application No.202121059471 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : STAPLING UNIT WITH AN IMPROVED STITCHING HEAD DRIVE APPARATUS

(51) International classification	:B42B0004000000, B42B0004020000, H01M0002140000, B42C0001120000, H01H0071520000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Abstract STAPLING UNIT WITH AN IMPROVED STITCHING HEAD DRIVE APPARATUS The present invention relates to a stapling unit with an improved stitching head drive apparatus. In the present invention, a bunch sensor (15) senses the absence of the bunch of sheets and send the signal to the PLC which actuates a lever operating device (A). The lever operating device (A) open the toggle lever by pushing the toggle release lever (7) to disengage the driving lever (9) from the pivot lever (10). The disengagement of the toggle lever (8) with the pivot lever (10) and the driving lever (9) results in free movement of the pivot lever (10) on pivot and the driving lever (9) will not transfer the motion to the shaft (4) which is responsible to drive the stitching head (5). Thus, the present invention provides controlable movement of the stitching head (5) resulting in improved cycle time of machine and minimum rejection. Fig. 2A

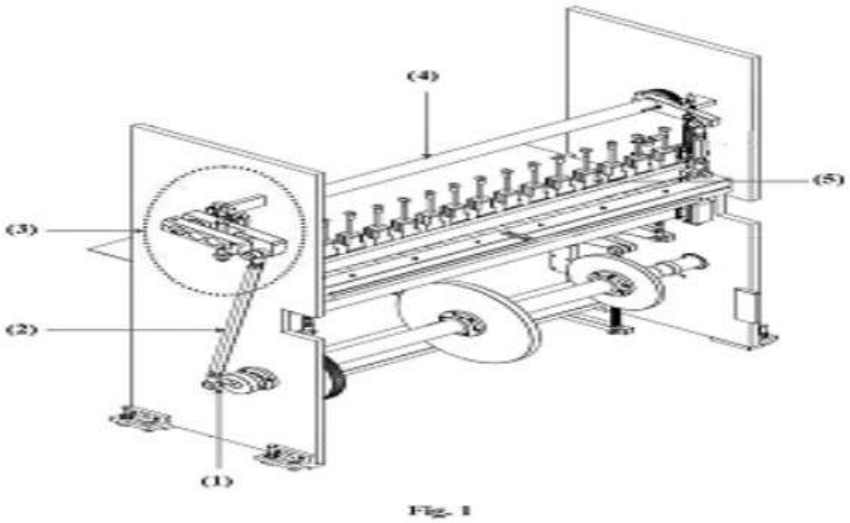

Fig. 1

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/01/2022

(21) Application No.202221002564 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : INTELLIGENT CONTROL SYSTEM TO DELIVER WATER FOR BATHING

(51) International classification :G05B0019418000, A61H0033000000, F04D0015000000, F24H0009000000, C02F0103420000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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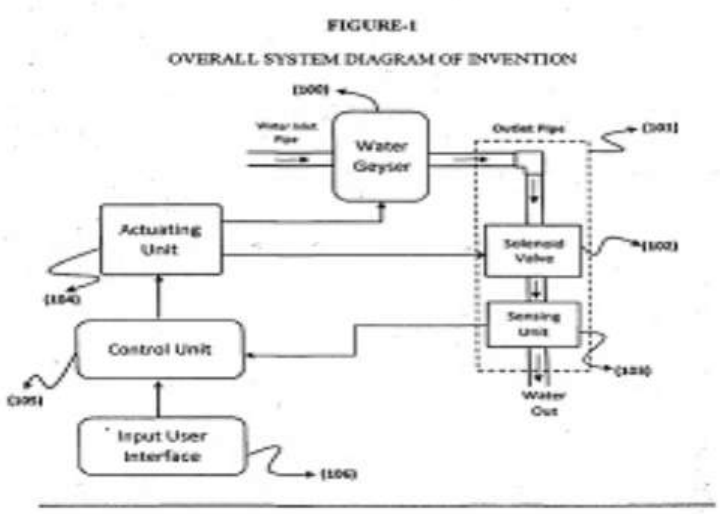
(57) Abstract :



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/01/2022

(21) Application No.202221003258 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN INTERVAL OUTPUT BASED INTEGRATED SYSTEM FOR GARBAGE LOOSENING AND THE METHOD THEREOF

(51) International classification :A24B0003060000, F23G0005440000, B01D0053800000, G10L0015080000, D01H0004320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT An interval output based integrated system for garbage loosening and the method thereof: The present invention relates generally to the development of the household and industrial garbage separator or loosening device, more particularly, to the disintegrated output-based system for garbage loosening for the waste. The present invention gives the device which can be used with the combination of belt drives and uses very little amount of electricity for the operation. The method used in the present invention resulted into the multiple output-based garbage loosening combinations. The present invention discloses interval output based integrated system for garbage loosening and the methods for the garbage loosening more specifically the interval output based device housing with helically arranged horizontal bars or extended cantistrips [103] designed accordingly for damping and with variable cross sectional area to achieve good fatigue behaviour under repeated loading and unloading of garbage wherein the method is achieved semi-automatic with incorporation of motion of belt drives

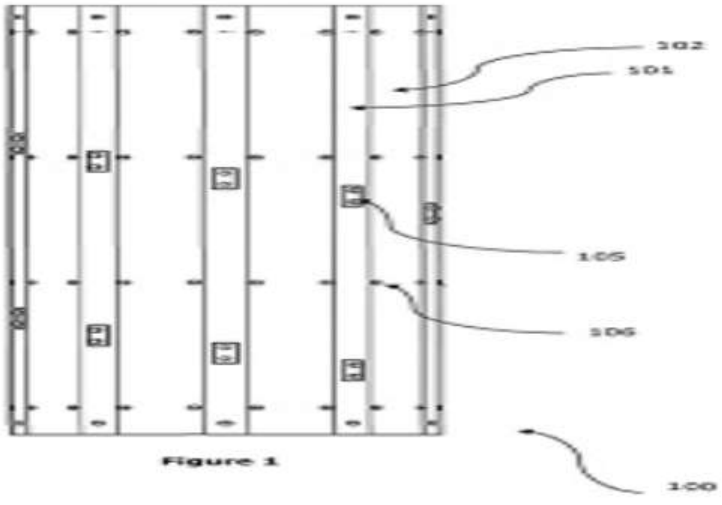

Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/01/2022

(21) Application No.202221004246 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : EPOXY RESIN BASED ADHESIVE AND PREPARATION METHOD THEREOF

(51) International classification :C09J0163000000, H01L0023373000, C08K0003220000, C08K0003360000, C08K0003040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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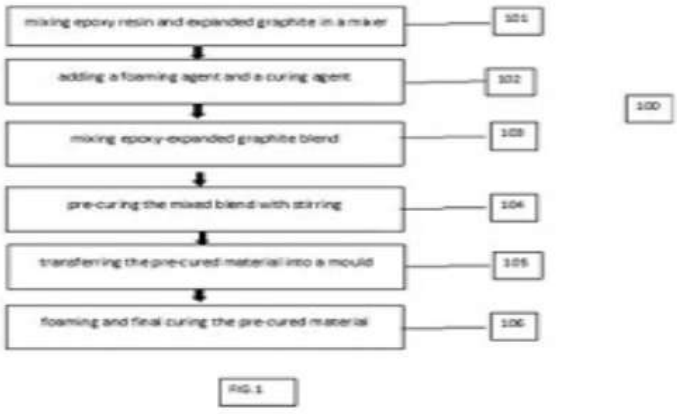
(57) Abstract :
ABSTRACT Title of the invention: Epoxy resin based adhesive and preparation method thereof The present disclosure proposes a thermally conductive epoxy adhesive composition that acts as a Thermal Interface Material (TIM) in between the heat-generating source and heat sink for better heat dissipation. The proposed epoxy resin-based adhesive provides higher conduction with a lower filler loading percentage. The preparation method involves pre-curing of the epoxy expanded graphite to attain superior bonding and strength. The epoxy resin-based adhesive composition comprises 10 to 40 wt% of expanded graphite and 60 to 90 wt% of the base epoxy matrix. The composition provides enhanced dispersion of fillers and a better conduction network in the matrix through the foaming process. Further, the prepared epoxy adhesives are suitable for use as a TIM demonstrating thermal conduction in a working temperature range from -190 °C to 100 °C maintaining up to 90 % accuracy. Prepared compositions advantageously have a long (greater than 6 months) shelf-stability when stored at normal room temperature. Thus, the proposed epoxy resin-based adhesive is cost-effective and effective for use as a TIM and can be prepared by a simple procedure.



No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2022
(21) Application No.202221007737 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : LOW COST, ELECTRIC PUSH CART WORKING ON DC MOTOR AND CAPABLE OF CARRYING LOAD

(51) International classification	:B62B0003020000, H02K0053000000, B60W0010080000, A61G0007050000, B62B0005000000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
A low cost, electric push cart system working on dc motor comprising of a push cart (100) with at least four wheels (101) and operating platform (102), a plurality of gear(s) (103), plurality of power Battery (104), starter (105), plurality of motors (106), controller (107), plurality of relay drive (109), Dc Motor (110), Chain drive mechanism (111), Frame body (112), Gear assembly (113), lithium battery (114); wherein: the said lithium battery charge the power batteries (104) and rotate the said motor thereby rotates the said wheels, the said controller (107) receives the signal for further operation of vehicle. The low cost, electric push cart working on dc motor mainly helps the poor vendors. Figure 1

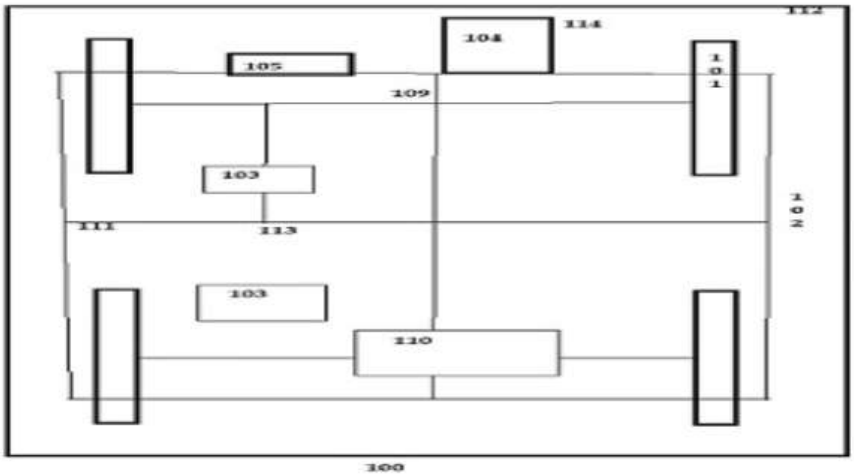

FIGURE: 1

No. of Pages : 33 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/02/2022

(21) Application No.202221008614 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SECURITY SYSTEM WITH PREVENTIVE INTEGRATED FRAMEWORK FOR PREVENTION OF RANSOM WARE.

(51) International classification	:G06F0003010000, G06F0021620000, G06K0009340000, G08B0025000000, B60R0025040000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention encompasses a security system which creates an intigratable, adoptable, flexible, secure and accountable solution to prevent an organization's sensitive and confidential information; identifies the variations, which can be effectively handled through an universal approach, thereby helping organizations, not to go for multiple defensive approach but to focus on single plan of action.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/02/2022

(21) Application No.202221008973 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : THE SYSTEM AND DIE FOR STRAIGHTNESS AND OVALITY REMOVAL FROM COPPER TUBE.

(51) International classification	:B21D0039200000, H01L0021020000, H01L0021780000, B21C0037300000, G01B0011240000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The system and die for straightness and ovality removal from copper tube relates to the ovality removal from copper tube. Also die production for ovality removal from the copper tube by using thermal products and its supporting members, also die for using straightness of rod, and provide straight rod of the copper and other material also like this and ovality removal. Also expand the copper pipe in the variety of the pipe growth fee with the most price of the pipe growth charge within the allowable variety where the system load of the pipe enlargement device is within the allowable range when expanding the metal pipe to achieve the specified roundness A first pipe increasing step, pipe expansion step of increasing the steel pipe after the primary pipe growth step at a pipe enlargement ratio at which the pipe diameter of the copper pipe is goal and reduce as per die.

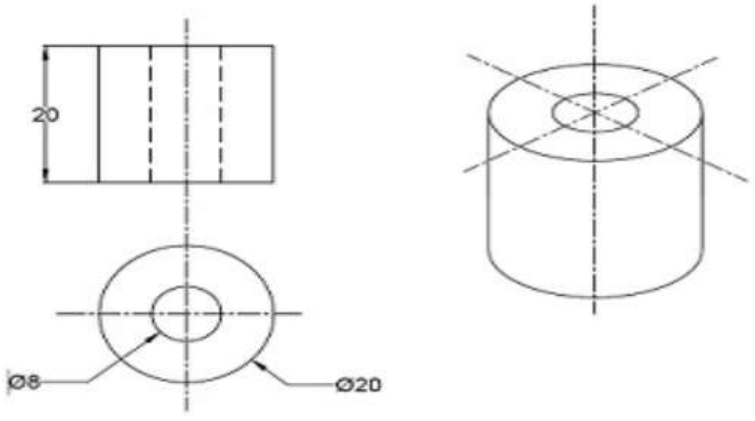

Figure 1

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/02/2022

(21) Application No.202221010420 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM TO CONTROL AN APPARATUS USING SPEECH SIGNALS AND METHOD THEREOF

(51) International classification	:G10L0017000000, G10L0017060000, G10L0017220000, G10L0017040000, G10L0017020000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present discourse relates to the speech signal processing which exploits the variability of speech model parameters across speaker. The system (100, 200) comprises a speaker verification device (102, 202) and a controlling device (104, 204). The speaker verification device (102, 202) records speech signals of a speaker and processes the recorded speech signals to verify whether the speaker is an authorised speaker or unauthorised speaker. Based on the successful verification, the controlling device (104, 204) activates an external apparatus.

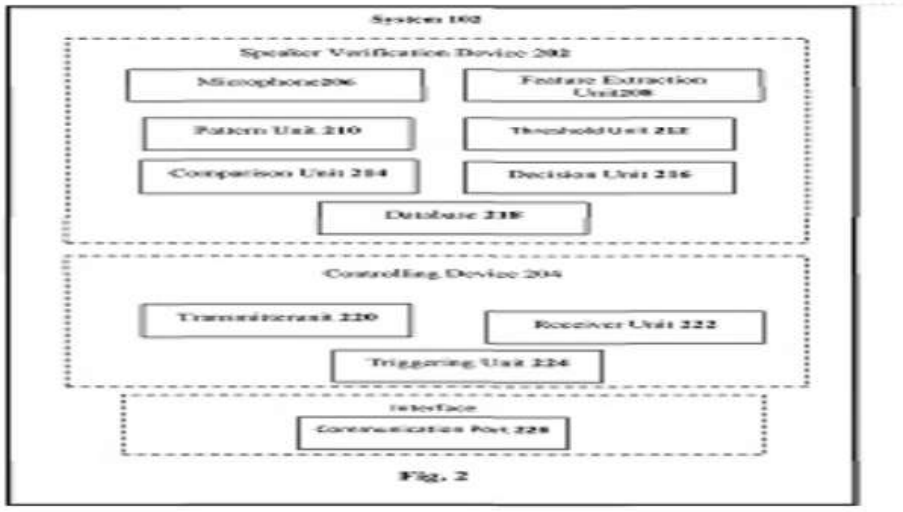

Fig. 2

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202221011555 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGN OF FOOTREST &VERTICAL SUPPORT FOR INDIAN VEHICLE.

(51) International classification	:B60N0003060000, B60K0026020000, B60T0007060000, G09B0019140000, B62J0027000000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT [500] Our Invention Design of footrest &Vertical Support for Indian Vehicle is a wanted point of 20 degrees for the agreeable grasp of foot. As prior footstool is level is in mainland to use for longer time because of body solidness. Which can be taken out. To get up from the seat serenely not to have jerk toward the back , vertical help as adaptable/fixed hold utilizing adjustable vertical bar Should be given toward the front of the seat. It will build the adaptability of the body with expected strain to be given on abdomine/stomach. Which is absurd in European Vehicle. The motivation behind this study was to comprehend the pedal use attributes of more established drivers in different driving assignments utilizing an instrumented vehicle. This study originated from the commonness of the pedal application mistakes (PAEs) and the more established drivers' overrepresentation in crashes brought about by PAEs. With the populace expanding and aging, it is assessed that in 2020 there will be 40 million drivers beyond 65 years old in the United States. Contrasted and their more youthful partners, more seasoned drivers are confronting declining mental and actual capacities, for example, disabled vision, more slow response time and lessening scope of appendage movement. Since these capacities are firmly related both with the driving undertaking and the capacity to recuperate from an accident, more established drivers are overrepresented in vehicle crash association rate, and they are particularly defenseless against wounds brought about by the accidents. Pedal misapplication crash is a sort of crash went before by a driver erroneously squeezing the gas pedal. As of late, the National Highway Traffic Safety Administration gave a report on PAE. The report uncovers that more seasoned drivers are overrepresented in pedal misapplication crashes and that few driving undertakings are overrepresented, for example, crisis halting, parking area moves and connecting of the vehicle to collaborate with a check side gadget like a card peruser, post box, or ATM. Existing exploration has researched the PAEs according to alternate points of view, yet questions stay regarding the reason why more established drivers are bound to submit PAEs in these driving undertakings.

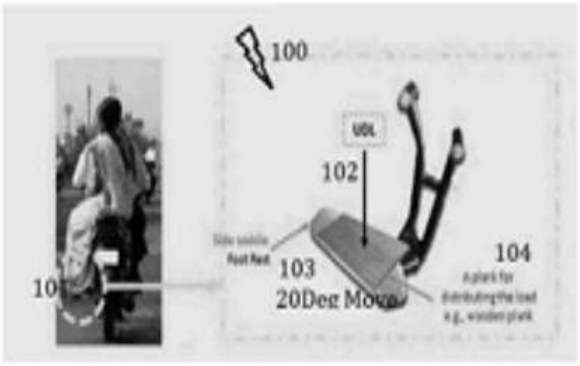

Fig.1: Design of footrest &Vertical Support for Indian Vehicle with 20 Degree Move as Per User Need.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202221011556 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : INTELLIGENT VULNERABILITY ASSESSMENT TOOL TO STRENGTHEN SECURITY OF NETWORK.

(51) International classification	:H04L0029060000, G06Q0010060000, G06Q0010100000, B42D0015000000, G06F0021570000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT [500] Our Invention Intelligent Vulnerability Assessment Tool to Strengthen Security of Network as each association is having an organization at their place for improving on the work. Network design which is underlying the association is a greater amount of intricate nature utilized for putting away the association's touchy information including resources. Such organizations are presented to hidden dangers from inside and outside sources in the association. To ensure the delicate data and keep up with the security stance of the association, directing weakness evaluation and entrance testing is fundamental. To protect the sensitive information and maintain the security posture of the organization, conducting vulnerability assessment is essential. At present talented and prepared individuals in the space of organization reviews are not as a lot of necessities of enterprises. At present the methodology towards mechanized entrance testing chips away at the premise of various strategies which require a structure of the adventure results remembering fixing instrument for the other hand the network safety space is quickly changing with new programming and assault dangers are presented by programmers which makes delivering and keeping up with exceptional models a significant test. This approach can be executed by creating various information situations, and applying different support learning calculations to track down the outcomes with precision and get the ideal arrangement. Framework expects to create results with exactness which will save human resources as far as time utilization, dependability and event of testing. Instruments and techniques in which client cooperation through a typical UI empowers the evaluating of organization security before execution of the organization, just as surveying the security of existing organizations, bits of existing organizations, or alterations to existing organizations. An organization security model valuable in understanding the instruments and strategies is additionally revealed.

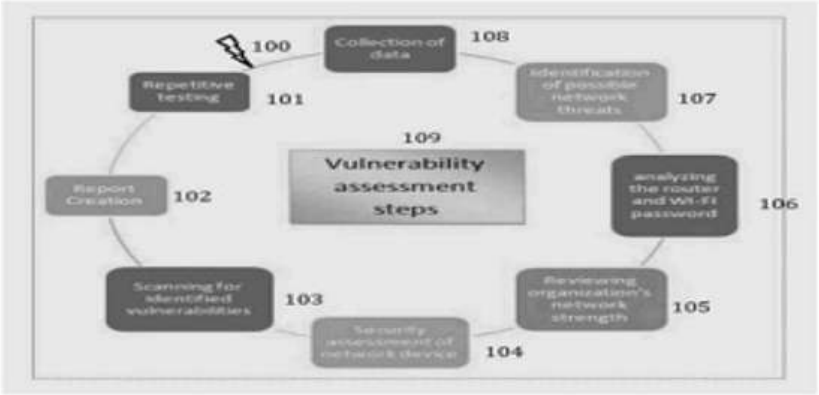

Fig.1: Intelligent Vulnerability Assessment Tool to Strengthen Security of Network, **Flow Chart**

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202221011557 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CONTENT-BASED IMAGE RETRIEVAL SHAPE FEATURES USING DEEP LEARNING

(51) International classification :G06F0016583000, G06K0009520000, G06K0009620000, G06K0009480000, G06T0007143000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
ABSTRACT CONTENT-BASED IMAGE RETRIEVAL SHAPE FEATURES USING DEEP LEARNING Content-based image retrieval system (CBIR) is widely popular, usually because these systems extract images from a wide multiplicity of the dataset to give accurately clustered images that the user can use for further processing. Google image search is such an example of the CBIR system. CBIR is used in a variety of applications, including medicine, electronic libraries, and database systems on biodiversity, historical analysis, and crime prevention. CBIR is an image retrieval method where images are retrieved based on image details in an image rather than on text or metadata present. The piece of information present in image content is called features and they are the color, texture, or shape of an image. In content-based image retrieval system, another important visual feature is shape. Shape is one of the basic features used to describe image content and it is also can be used to provide powerful information. Nevertheless, shape representation and description is a difficult task because when a 3-D real world object is projected onto a 2-D image plane, one dimension of object information is lost. As a result, the shape extracted from the image only partially represents the projected object. Further, shape is often corrupted with noise, defects, arbitrary distortion and occlusion. Shape representation and description methods can be divided into two main categories which is boundary-based and region-based. the boundary-based technique will use only the contour or border of the object and completely ignores its interior, whereas region-based technique apply segmentation to divide an image into different regions/segments, by setting threshold values according to the desirable results. The most successful representations for shape categories are Fourier Descriptor and Moment Invariants. The main idea of Fourier Descriptor is to use the Fourier transformed boundary as the shape feature, whereas Moment invariants is to use region-based moments, which are invariant to transformations as the shape feature.

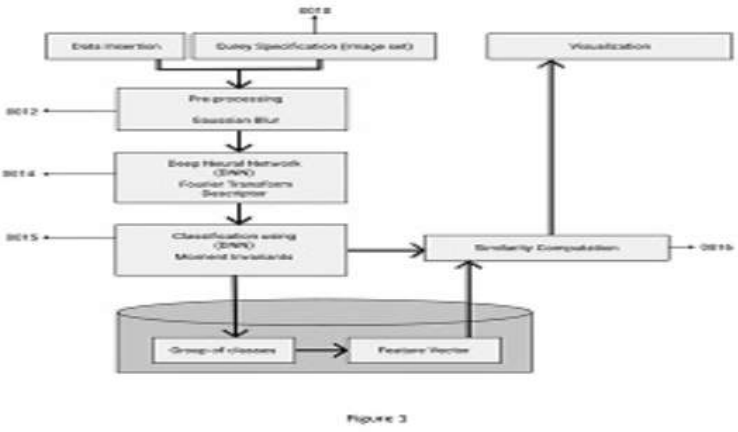

Figure 3

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202221011679 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD FOR PRODUCING SILICON NANOWIRES HAVING COMPOSITE STRUCTURE

(51) International classification	:H01M0004380000, H01M0004040000, H01M0004134000, H01M0004360000, H01M0004139500
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
ABSTRACT A method for producing silicon nanowires having composite structure A method for producing composite silicon nanowires on suitable substrate using suitable nano-catalyst is disclosed herein. The method grows silicon nanowires having crystalline silicon core and amorphous silicon shell with tuneable orientation, morphology and dimensions suitable for applications in battery anodes, energy storage devices like supercapacitors and thermoelectric power generators. Fig. 1

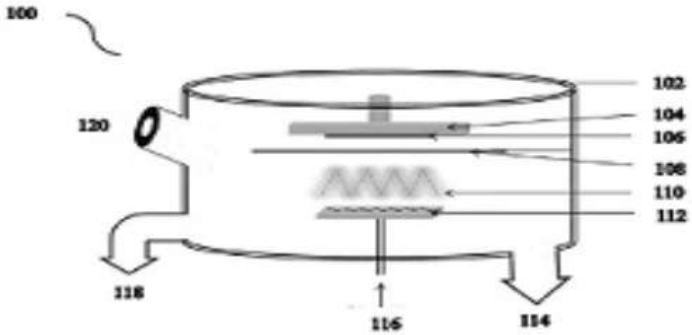

Fig. 1

No. of Pages : 40 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/03/2022

(21) Application No.202221012019 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SMART UNITARY SYSTEM FOR PUBLIC TOILETS

(51) International classification :E03D0005100000, A47K0013300000, E03D0009000000, E03B0003030000, H02J0007350000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A smart unitary system for public toilets comprising of: an automatic flush system; a construction material; a power supply system; an instruction system; a sanitization system for females; an AI based control system; a bio degradable decomposition system and rain water harvesting system wherein, the said automatic flush system embodied with auto flush sensor (10) installed above the toilet seat/ cistern (21) works automatically after usage; the said construction material of walls is composed of silica plastic block in a ratio of plastic and silica 10:90 and non -toxic paints; the said power supply system consist of solar panels; the said monitoring and instruction system embodied with sound instructor (4) for flushing instructions; the said sanitization system consist of sanitary napkin vending machine (2) and sanitary napkin incinerator machine (1); the said AI based control system consist of mobile based application or location of toilet and periodic cleaning; the said biodegradable decomposition system consist of bio-digester tank (7) decomposes the human waste through bacteria and the said rain water harvesting system consist of rain water harvesting tank (11).

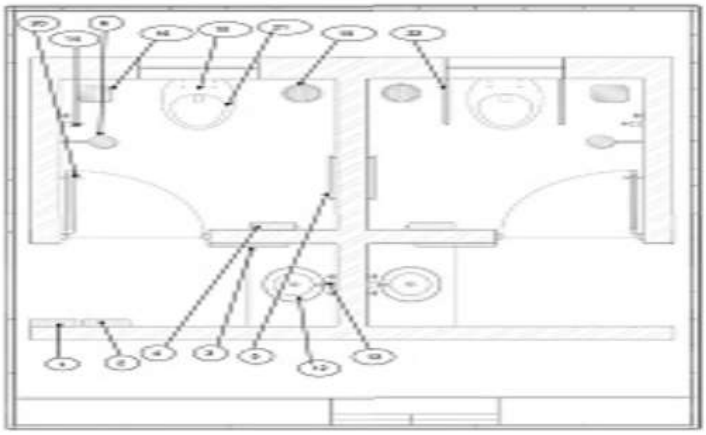

Figure1: View of a smart unitary system for public toilets.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202221012271 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PROCESS FOR SPIRULINA DECOLOURIZATION AND FOUL SMELL REMOVAL

(51) International classification	:A61K0035748000, C07K0014795000, A61K0035740000, A23K0010200000, A23L0033100000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Abstract Process for Spirulina Decolourization and Foul Smell Removal prepares dried soluble whole Spirulina powder with desirable sensorial properties and which is devoid of characteristic off-odour, coloured and after taste associated with Spirulina. The present invention provides a physical process for the preparation of soluble whole spirulina powder in accordance with GMP comprising the steps of: The process starts by setting up the Soxhlet assembly, and 60% IPA (Iso-Propyl Alcohol) v/v was prepared using distilled water, adding spirulina in Soxhlet assembly and Setting the temperature for heating at 60-80°C IPA (Iso-Propyl Alcohol) passing through soxhlet at the 60°C for 8-10 Hrs, settling of spirulina along with thimble in saline water for 2-3 hrs, repeat the above mentioned process for three times by frequently changing the saline water, Sun drying of spirulina on the butter paper for 2-3 hrs.

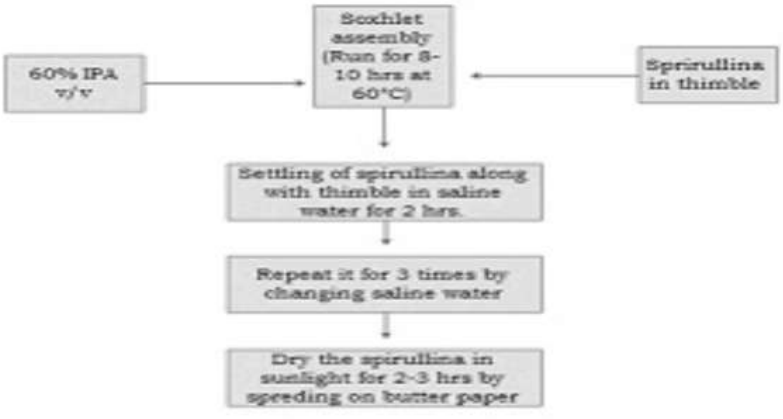

Figure 1: Schematic Diagram for preparation of the soluble whole Spirulina powder

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202221012453 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PREPARING COVID WASTE BRICK

(51) International classification :C08L0075040000, B28C0005000000, B01J0037080000, B28B0003020000, B28B0003000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT Method For Preparing Covid Waste Brick The present invention relates to a method for preparing covid waste brick for recycling the covid waste. The method is economical. The method is user friendly. The method produces the brick with a high strength. The brick is easy to recycle using the method. The brick light weight and easily mixes with the additive. The method requires a less time for preparing the waste brick. At an initial step, a covid waste crush is obtained. At a next step, the covid crush is mixed with a water, marble slurry, chips, cement and fly ash to form a mixture. At a next step, a content proportion in the mixture is tested. At a next step, the mixture is poured into a mold of a required shape. At a next step, the mixture is dried into the required shape. Figure 1

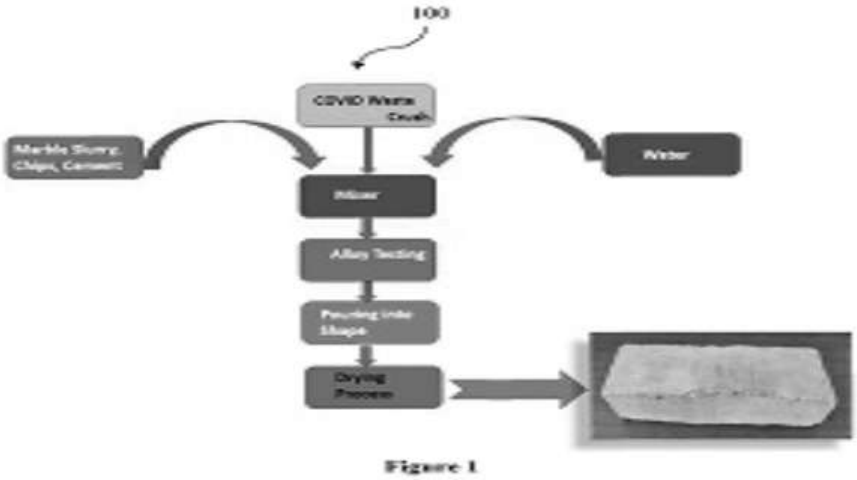

Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202221012538 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGN OF AUTOMATIC HAND BRAKE SYSTEM

(51) International classification :B60T0007100000, B60T0017220000, B60T0007120000, G02F0001133000, F02D0041260000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
By the utility model, a handbrake automatic control device for an automobile is disclosed, which is primarily comprised of a power supply and signal processing and executing units connected to the power supply, wherein an input end of the signal processing unit is connected with an electronic control unit of an automobile to collect ignition switch signals I, automobile braking signals S, speed signals D, motor rotating speed signals N, and clutch switching signals L stored in the electronic control unit of the automobile is disclosed. Automatic control of the automobile handbrake allows a driver to completely replace a previously used manual handbrake device. It also allows an automobile parking braking system to operate fully automatic and intelligently, resulting in a significantly simplified driving process.

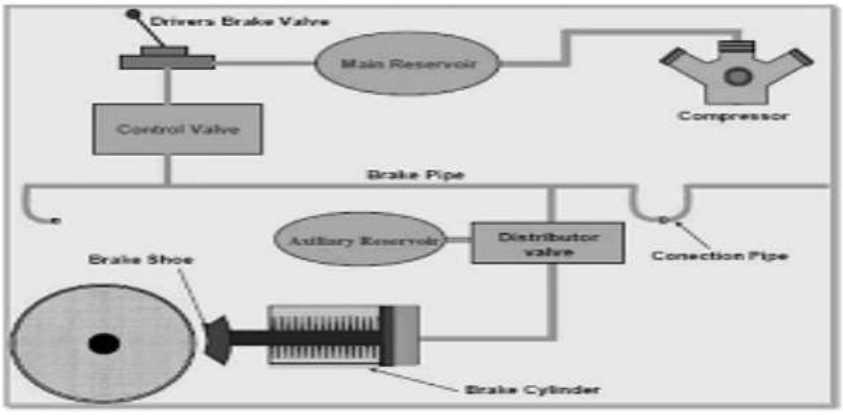

Figure 1: Functional block diagram

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202221012550 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND PROCESS OF NEEM BARK EXTRACTS

(51) International classification :A01N0065000000, A01N0065260000, A61K0036580000, A61K0008970000, A01N0043560000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Using an organic solvent with a dielectric constant between 15 and 35, such as methanol or ethanol to pre-treat neem bark, and then extracting the resulting residue to obtain neem bark extracts from the hydrophilic organic extraction solvent, results in neem bark extracts with a dielectric constant of 10 or lower.

Diagram:

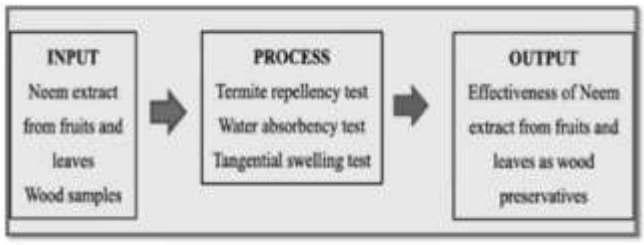

Figure 1: present invention process flow

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202221012580 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CNN BASED BLOOD CANCER DETECTION AND DIAGNOSIS METHOD AND THEREOF

(51) International classification :G01N0033574000, G06F0021550000, G06F0016280000, A23C0009142000, C12M0001000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Various devices and methods for detecting and characterizing cancer in a subject are disclosed in the current disclosure. Micro filters and microfiltration systems are among the devices that may be used to isolate and characterize cells from a person once they have been isolated.

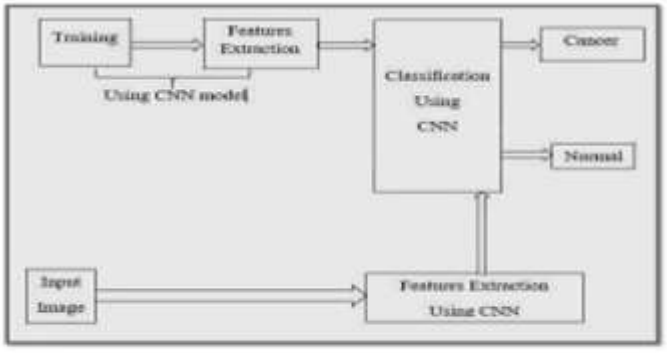

Figure 1: Proposed invention functional flow

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202221012692 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SELF-ADJUSTING MATERIAL FEEDING MECHANISM.

(51) International classification	:A47K0010360000, B01J0037000000, A45D0040200000, B65H0003060000, B41F0031000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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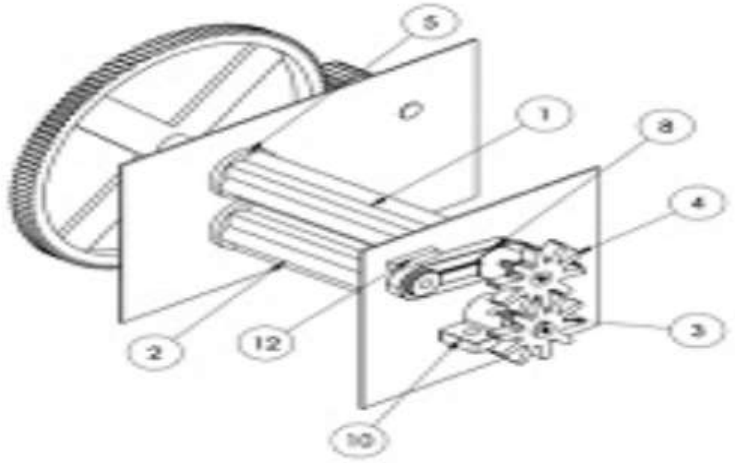
(57) Abstract :
A self-adjusting material feeding mechanism comprises a sent of pusher rollers creating push-force for the material feed, a par of gears for synchronically rotating pusher gears, a rocking arm with oscillatory movable function on which one of the gear and pusher roller is attached, a flywheel enabling to ensure gradual increase and decrease of speed of rotation, and stopper to allow restricted movement of rocking arm. This invention provides a solution to all the existing feeding mechanisms in the market by providing auto-adjustable feature. The said auto-adjustable feature avoid disengagement of gear teeth when excess feed is provided, and thereby avoid teeth breakage. This invention provides an economical, efficient and effective solution to current problems. Ref. Fig. 1



No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202221012788 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE IN THE PREDICTION OF BITCOIN FLUCTUATIONS

(51) International classification	:G06N0003040000, G06N0003080000, G06Q0020060000, G06Q0010040000, G06Q0040060000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
In recent years, Bitcoin has become the first decentralised digital currency to see a considerable rise in market capitalisation. This article aims to use machine learning and sentiment analysis to forecast the future direction of Bitcoin's price. We used supervised learning to investigate several machine learning methods to create a model for predicting future market prices. Time Series (ARIMA) models are challenging to evaluate precisely because of the difficulties in determining their exact nature. Recurrent Neural Networks (RNN) with long short-term memory cells are then implemented (LSTM). Using long short-term memory (LSTM) approaches, we analysed the time series model prediction of bitcoin prices with more efficiency. We compared the predictability of bitcoin price and sentiment analysis of bitcoin tweets to the conventional way (ARIMA). While the ARIMA model's root-mean-square error suggests that the LSTM with multi-feature is more accurate, the RMSE of LSTM (single feature) and(multi-feature) demonstrate the opposite.

Fig. 1 depicts Data Preprocessing.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022
(21) Application No.202221012921 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SLIDING CONTACT FOR TOWER PARKING, SHUTTLE PARKING, OR OTHER MECHANISED CAR PARKING SYSTEM

(51) International classification :B60L0053300000, E04H0006420000, G07B0015020000, B60L0053630000, H02J0050100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Sliding Contact for Tower Parking, Shuttle Parking, or other mechanised car parking system A sliding contact for charging electrical vehicles in a mechanized car parking system comprising of an electrical first collector device; an electrical second supply device, wherein the said first collector device secured to a movable parking pallet and said second supply device secured to a pre-allocated post where the said parking pallet is parked at the home location; and wherein sliding connector is configured for connecting collector and supply device circuits vide collector leaf elements and supply / connecting plate members such that the plane of the collector device is parallel to the plane of the supply device. Fig 3(b)

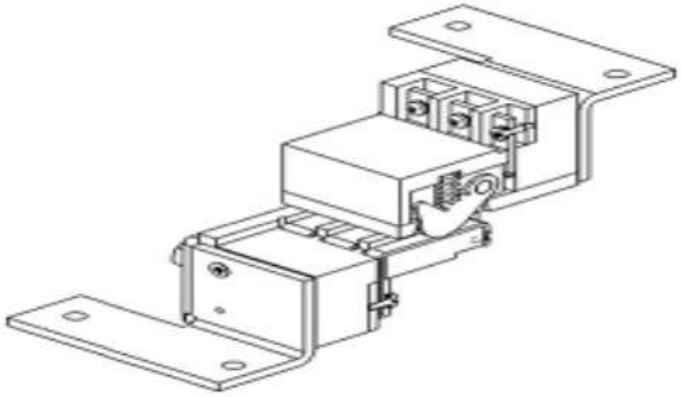

Figure 3b –

No. of Pages : 27 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202221012937 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WIRELESS OCEANOGRAPHIC SENSING NODES AND METHODS OF ASCERTAINING OIL SLICK REGIONS THEREOF

(51) International classification	:H04W0084180000, H04W0052020000, E02B0015100000, E02B0015040000, H04W0016180000
(86) International Application No Filing Date	:NA :NA
(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

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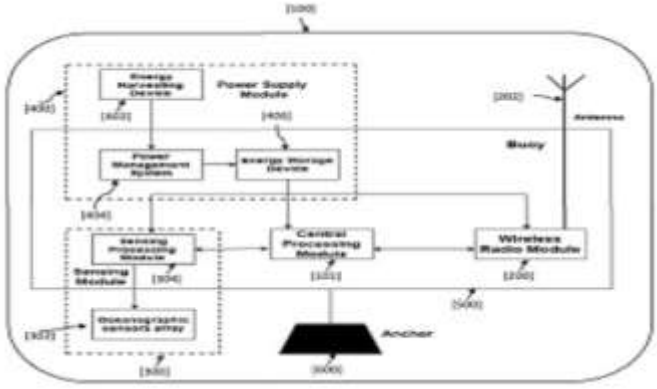
(57) Abstract :
The present invention herein belongs to wireless communication, particularly relates to a coordinated network deployed in marine oil slick regions, more particularly methods of using a plurality of indigenous wireless communication enabled floatable nodes to ascertain the impact of oil slick, in real-time. Said wireless architecture and method comprising steps of, deploying a plurality of wireless sensor node [100] where oil spill event occurred, acquiring oil slick information including depth of oil slick using a sensing array [202] assembled in each wireless sensor node [100], providing characterization of boundary nodes and non-boundary nodes by the wireless sensor nodes themselves, autonomously using an algorithm embodied into each wireless sensor node [100], transmitting of oil slick data to a plurality of receiver nodes [700], wirelessly, and ascertaining an impact of oil slick with a computational analysis performed at each receiver node [700]. FIGURE 1



No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202221013078 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TRACKING A PRODUCT

(51) International classification :G06Q0010080000, G06N0020000000, G06T0007000000, G08G0001010000, G06F0016250000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT TRACKING A PRODUCT Disclosed is a system (102) and a method for tracking a product in a store. Initially, an image of a product is captured by a camera (202). The image is further analyzed to extract metadata of the product. Further, one or more parameters are identified from the metadata using machine learning and Artificial Intelligence technique. Upon identification, an inventory database is updated automatically in real-time. Further, a shelf life of the product is determined based on the one or more parameters. Finally, a strategy is recommended to a user based on the shelf life. [To be published with Figure 1]

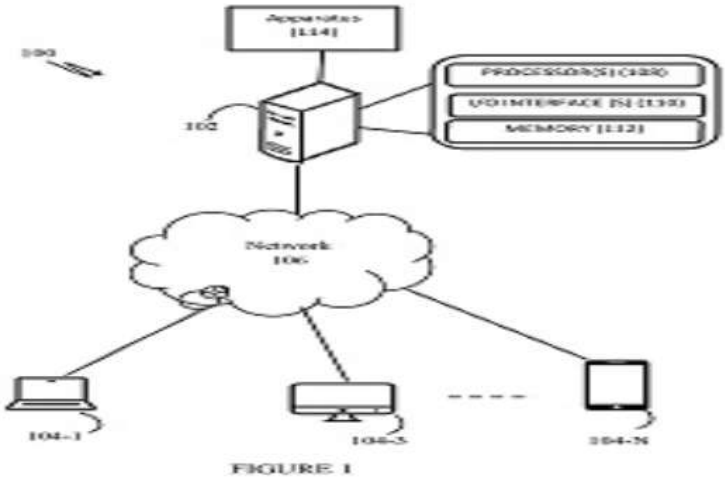

FIGURE 1

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202221013223 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A POWER PACK WITH AN INTEGRATED ACTIVE THERMAL MANAGEMENT SYSTEM FOR AN ELECTRIC VEHICLE

(51) International classification :H01M0010625000, H01M0010613000, H01M0002100000, H01M0010656300, H01M0010656800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A power pack with an integrated active thermal management system for an electric vehicle is provided. The power pack comprises at least one battery pack A, a cooling circuit B, and a battery pack thermal management system C. Each of the battery packs comprises a cell array 101, a plurality of heat and current collector panels 102, a plurality of heat spreader 103, a thermal pad 104, a cooling plate 105, and an L-Shaped heat spreader 106. The plurality of heat and current collector panels 102 arranged in a side by side arrangement on top as well as bottom side of the battery pack for faster and efficient heat extraction from each cell of the cell array.

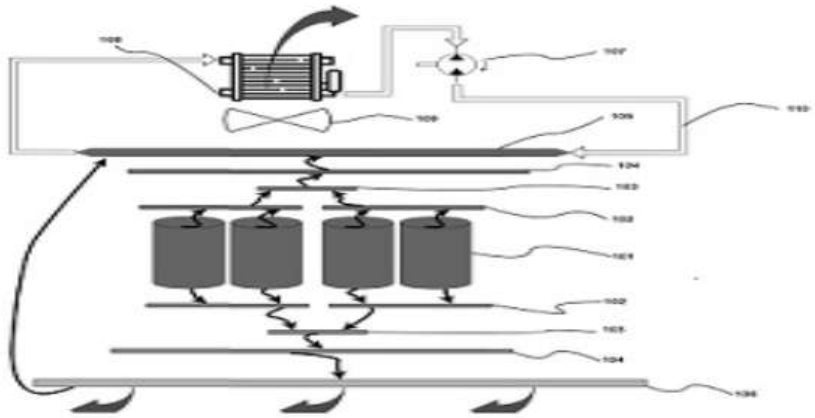

FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202221013359 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : POLYPHENOLIC POLYMERIC NANOEMULSION

(51) International classification	:A61K0009000000, A61K0009107000, A61K0031120000, A61K0008350000, B82Y0005000000
(86) International Application No Filing Date	:NA :NA
(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

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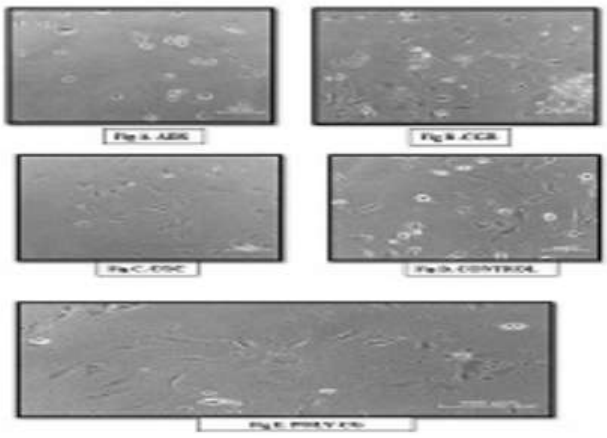
(57) Abstract :
The present invention relates to a polyphenolic polymeric nano emulsion comprising of curcumin, 6-gingerol, surfactant, co-surfactant, oil and polymeric solution. The nano emulsion formulation is an intranasal drug dosage form for the treatment of brain tumour and is found to be easy, safe and effective drug delivery system. This invention also provides a suitable process for the preparation of nano emulsion.

Figure no :1 - Phase contrast microscopic Image of human glioblastoma cell line indicating % growth inhibition by Fig A -ADE, Figure B – CGB, Figure C-CGC, Figure D - Control, Figure E - Poly CG



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202221013387 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A COMPACT POWER-PACK ASSEMBLY FOR AN ELECTRIC VEHICLE

(51) International classification :H04W0088080000, B60L0058100000, H04L0001180000, H01B0001020000, H01M0010420000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A compact power-pack assembly 100 is provided. The assembly 100 comprises a battery pack 101, a Battery Management System (BMS) 102, a Drive Train Unit (DTU) 103, Digital Protection Switch (DPS) 104, Auxiliary power System (APS) 105, and a plurality of bus bars 106. The assembly 100 imparts increased power density and enhanced vehicle range with reduced copper losses and voltage drop associated with the use of long wires/cables.

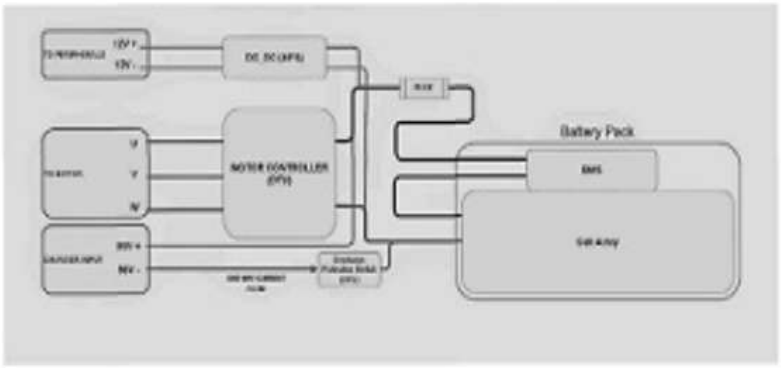

FIG.1

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202221013445 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODOLOGY FOR TRANSMITTING ELECTRICAL VOLTAGE TO A DRIVER CIRCUIT OF A POWER SEMICONDUCTOR SWITCH

(51) International classification	:H03K0017160000, H03K0017082000, H03K0017687000, H01L0025070000, H03K0017081400
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
This invention analyzes methodology for transmitting electrical voltage to a driver circuit of a power semiconductor switch. The half-bridge, which extends between the connections points, comprises, starting from the connection point, a series connection consisting of a high-side power semiconductor switch, a branch point and a low-side power semiconductor switch.

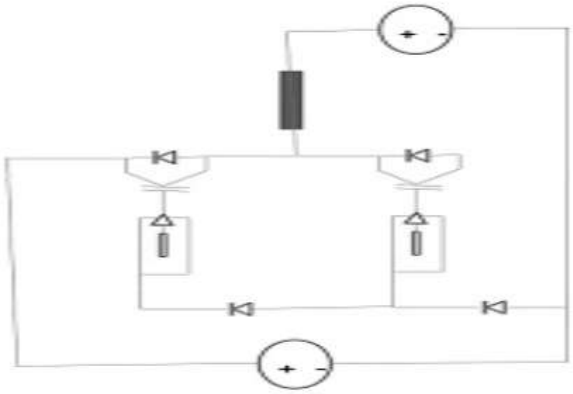

Figure 1: a block diagram representation of system of methodology for transmitting electrical voltage to a driver circuit of a power semiconductor switch.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202221013473 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : LOCATION SPECIFIC IRRIGATION MANAGEMENT AND DECISION SUPPORT SYSTEM FOR AGRO FARM USING IOT NETWORK

(51) International classification :A47C0027080000, A01G0025090000, A47K0010320000, H04W0004700000, G06Q0040020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A significant part in a country is a food creation, this food creation relies upon two elements like water and climate, the appropriate utilization of both can accomplish significant returns. In the manual water system, more creation is challenging to accomplish. In the agrarian area due to their capacity to both save water and oversee shortfall water system procedures programmed water system booking frameworks are exceptionally requested. A programmed smart irrigation decision support system is proposed to make a due water system in horticulture in this invention. On the premise of both soil estimations and climatic factors accumulated by a few independent hubs sent in the field, our framework gauges the week after week water systems needs of a manor. To adjust the choice decision supportive network to nearby perturbations and assessment mistakes, this empowers a shut circle control plan.

FIGURE 1: SMART IRRIGATION DECISION SUPPORT SYSTEM

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202221013484 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SHAVING OIL FORMULATION PREPARED FROM NATURAL OILS AND FREE FROM ALCOHOL

(51) International classification :A61K0008920000, A61Q0009020000, A61K0036530000, A61K0008040000, A61K0036534000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
SHAVING OIL FORMULATION PREPARED FROM NATURAL OILS AND FREE FROM ALCOHOL The present invention relates shaving oil formulation prepared from natural oils and free from alcohol. The shaving oil formulation includes a combination of fixed oils and volatile oils. The fixed oils include avocado oil, sweet almond oil, castor oil, coconut oil, jojoba oil; argon oil and olive oil. The volatile oils include lavender oil, lemon grass oil, nutmeg oil, rose oil, peppermint oil, camphor oil and eucalyptus oil. The shave oil is 100 percent pure, natural, alcohol-preservative-synthetic fragrance-free formulation. The shave oil gives user a hassle free, cut-free and irritation-free shave experience in a longer lasting manner, right from taking oil on his palm to applying and spreading on his shave area to shaving and post shaving experience. Figure of abstract: FIG.1

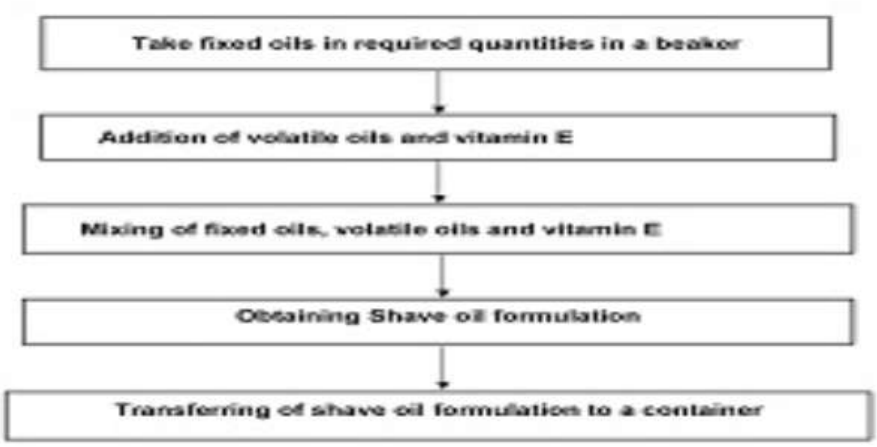

FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202221013511 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A DUAL CRADLE FRAME FOR AN ELECTRIC VEHICLE

(51) International classification :B60L0053660000, B60L0050510000, B60R0011000000, B60L0003000000, B60L0058260000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A dual cradle frame for an electric vehicle has been provided. The frame enables the housing of heavy weight power pack PP in one cradle and power train PT in other cradle such that largest possible heavy weight power pack can be housed along with an high-performance power train in the vehicle, without encountering adverse effects of weight and size on motion, rider ergonomics, vehicle speed and efficiency of the vehicle.

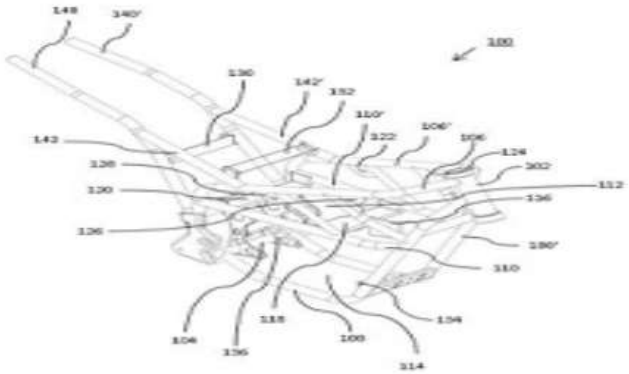

FIG. 2

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2022

(21) Application No.202221013638 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NANOFILTER SYSTEMS BASED BIOMASS CONVERSION AND RECYCLING PROCESSES

(51) International classification :B01D0061020000, C13B0020160000, C13K0001020000, C13B0020140000, C13K0013000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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5)Dr. Jai Shanker Pillai HP
6)Dr. T. Hemant Kumar
7)Mr. Gajanan Chandrakant Upadhye
8)Mr. Nellore Manoj Kumar
9)Dr. Chaitali Mathew
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(57) Abstract :
The present invention related to acid recovery systems used in hydrolysis operations contains a chromatographic device that separates the sugar from the acid during the first separation process. The sugar product produced by the chromatographic unit is further processed to provide higher-value goods like ethanol, which is then sold. Sugar has tainted the acid that is still present. In a nanofiltration unit with a nanofilter membrane, the acid polluted with sugar is processed via the membrane. In contrast to sugar, acid is permitted to pass through the nanofilter membrane, whereas sugar is denied. In a traditional acid recovery system, the permeate is collected and recovered in the hydrolysis process.

Diagram:

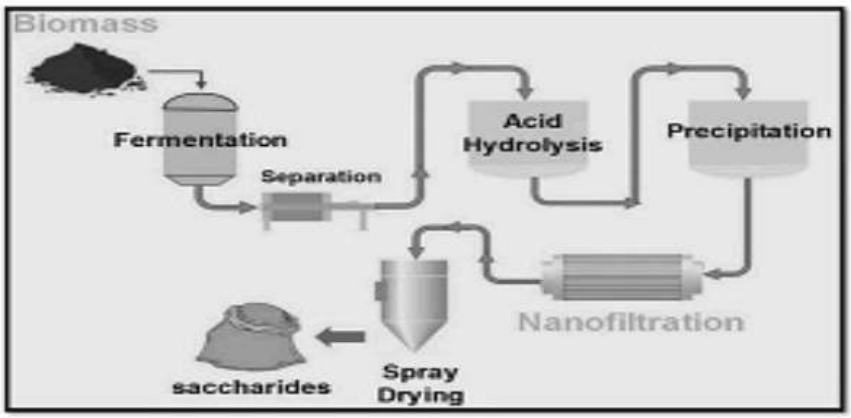

Figure 1: Proposed idea functional flow diagram.

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2022

(21) Application No.202221013647 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ANTITUBERCULAR RIFAMPICIN AND ISONIAZID SUSPENSION AND PREPARATION METHOD THEREOF

(51) International classification :A61K0009000000, A61K0009500000, A61J0007040000, A61K0031440900, A61K0031496000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(57) Abstract :
Sometimes inadequate drugs formulation creates problems for children and elderly patients to take medicines for longer duration. The present invention provides an oral dry suspension containing rifampicin and isoniazid useful for the treatment of tuberculosis. The antitubercular suspension, comprising of rifampicin, isoniazid, tragacanth gum, Span® 60, sodium saccharin, sodium benzoate, sodium phosphate, flavor and water. The antitubercular suspension is reconstitutable suspension. The process for the preparation of antitubercular suspension, comprising of sieving all the ingredients through mesh no. 40 to make uniform particle size dispersion, mixing all the ingredients in increasing order of their weight; and preparing suspension.

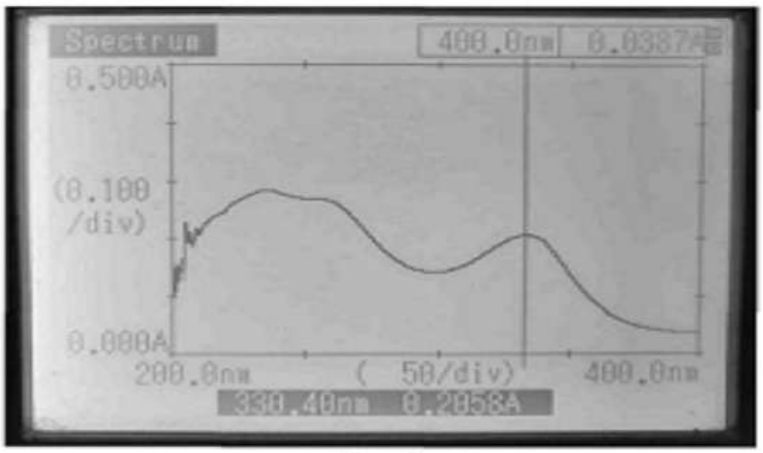

Figure 1

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202221013664 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A NOVEL IOT BASED E-COMMERCE TECHNIQUE BY USING CLOUD COMPUTING PLATFORM

(51) International classification :G06Q0030060000, G06Q0030020000, G06F0016330000, G06F0016245800, A61K0031538300
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(57) Abstract :
Increase commodity exposure in e-commerce by appropriately suggesting custom entities and encouraging user consumption. Using the open-source Hadoop cloud computing platform, a personalized e-commerce recommendation engine is built. The ideal method is found by comparing the project collaborative filtering algorithm based on cloud computing, the collaborative user algorithm, and the enhanced algorithm based on matrix filling and temporal context. The results show that the IA (Improved algorithm) based on matrix filling and temporal context is more accurate, has a more petite MAE (Mean absolute error), and is more scalable than UBCF and IBCF. The number of nodes increases the algorithm's efficiency. Also, the commodities advised to customers are more by their tastes, which may increase the algorithm's novelty and coverage rate, improve the item's exposure in all areas, and considerably boost users' consumer behaviour. The Hadoop cloud computing data mining system is used for e-commerce, providing a theoretical foundation for study. It is also essential for social and intellectual growth.

Fig. 1depicts the Structure of the Hadoop project.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202221013665 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DIAGNOSING BONE CANCER USING MACHINE LEARNING TECHNOLOGY

(51) International classification	:A61B0005000000, G01N0033574000, G06K0009620000, G16H0050200000, A61N0001020000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Cancer is a disease that may strike anybody at any age and leave them without quality life. More than one-third of the population will be affected by cancer at some time in their life. The goal of diagnostic medical tools like X-rays, CT scanning, and PET scans are to precisely identify the affected bone tract, including aberrant development and disease progression. A median filter is needed to remove the noise from the scanned pictures because of the large number of slices per pixel and the significant noise. A genetic technique will be used to analyse and recover specific attributes from the pre-processed picture, and CNN will do so. Using a CNN classifier, the images are categorised and recorded so that the clinician can make treatment recommendations based on the stage of illness. The results of using the procedure described here show that a more significant percentage of cases of bone cancer is detected early.

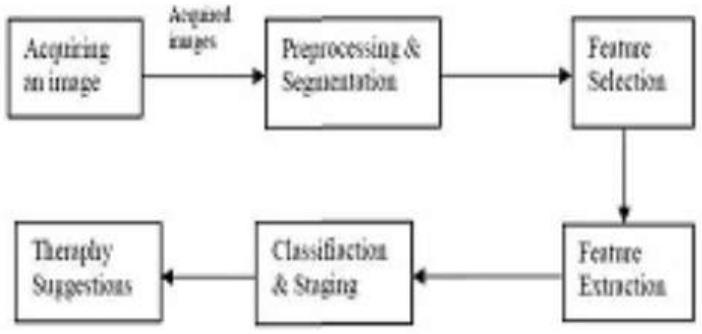

Fig 1 depicts the Architecture Diagram.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202227013454 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD, SYSTEM, DEVICES AND COMPUTER PROGRAM PRODUCTS FOR HANDLING DIGITAL PAYMENTS BETWEEN PAYERS AND PAYEES BEING IN PHYSICAL PROXIMITY TO EACH OTHER

(51) International classification	:G06Q0020400000, G06Q0020320000, G06Q0020100000, G06Q0020020000, G06Q0020120000
(31) Priority Document No	:2050086-4
(32) Priority Date	:29/01/2020
(33) Name of priority country	:----------
(86) International Application No Filing Date	:PCT/SE2020/051251 :22/12/2020
(87) International Publication No	:WO 2021/154136
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A method (600) for handling a digital payment between a payer (P1) and a payee (P2) is presented. The payer and payee communication devices (PD1, PD2) uses (610) short- range data communication (SRDC) when the devices are in proximity of each other to agree upon a digital payment (DP) without requiring long-range data communication with a remote digital payment settlement service (DPSS) at that stage. Independently of the other device, the payer communication device (PD1) or the payee communication device (PD2) subsequently communicates (630) buffered digital payment information (DPI) to the remote digital payment settlement service (DPSS) by long-range data communication (LRDC1, 15 LRDC2). The remote digital payment settlement service (DPSS) causes settlement (640) of the digital payment (DP) as indicated by the digital payment information (DPI) received by long-range data communication (LRDC1, LRDC2) from one of the payer communication device and the payee communication device (PD1, PD2).

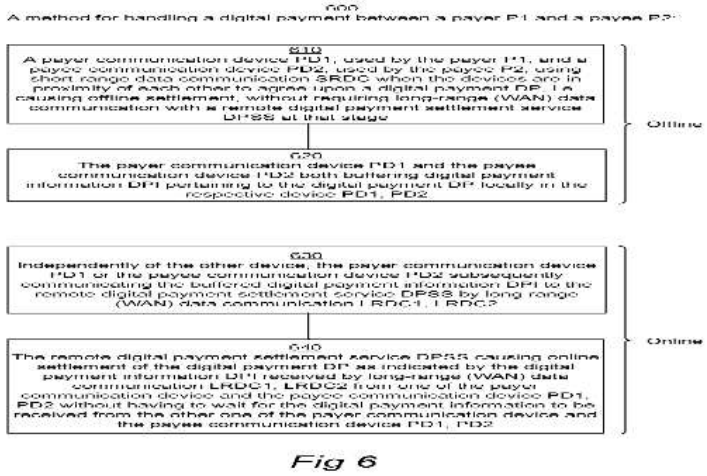

Fig 6

No. of Pages : 43 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/10/2020

(21) Application No.202041046689 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SEMI-FLEXIBLE MICRO PERITONEOSCOPY AND PORTABLE VISUALIZATION SYSTEM WITH CONTROLLABLE INSERTION MECHANISMS

(51) International classification :A61B0017000000, A61B0017020000, A61M0001280000, A61B0001313000, A61B0001000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT PORTABLE DISPOSABLE MICROPERITONEOSCOPE FOR DIRECT VISUALISATION OF PERITONEAL CAVITY OF A PATIENT AT THE POINT-OF-CARE A portable and disposable MicroPeritoneoscope (100) for direct visualization of the peritoneal cavity under local or reginal anesthesia by entering from the abdominal wall under visual guidance is provided. The MicroPeritoneoscope (100) includes an optical scope (102) with a camera (202), a biopsy exit port (204), and at least one light source (206A-B). A tubular optical trocar includes an optical port inner sheath (104) to separate muscle layers and a peritoneoscopy port (106, 800, 900) including an eye to fix with the skin of the patient. A manual insufflator bulb (108) to expand the space within the peritoneal cavity facilitating the optical scope (102) to move within the peritoneal cavity for visualization. A digital display (110) connected to the camera (202) and light source (206A-B) of the optical scope (102) for visualizing the peritoneal cavity, and a biopsy instrument (112) for obtaining a biopsy sample from intraperitoneal structures. FIG.1

No. of Pages : 33 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/02/2021

(21) Application No.202141006916 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MINI TILLER

(51) International classification :A01B0033080000, A01B0033160000, E04F0011180000, A01B0033100000, A01B0033000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Title: MINI TILLER ABSTRACT A mini tiller (100) comprising: a frame (102) to provide a rigid support to the mini tiller (100), wherein the frame (102) comprises: a handrail (104) to enable a user to hold the mini tiller (100), wherein the handrail (104) comprises: a clutch (108) to engage and/or disengage a power transmission from an engine (124) to a rotary gear shaft (110); a first cutter shaft (112) to receive the power from the rotary gear shaft (110); rotary blades (114a-114n) to receive the power from the first cutter shaft (112) for tilling the soil; a second cutter shaft (116) to receive the power from the rotary gear shaft (110); and cultivating blades (120a-120n) to receive the power from the second cutter shaft (116) to mix up the soil tilled by the rotary blades (114a-114n). Claims: 10; Figures: 4 Figure 1A is selected.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/02/2021

(21) Application No.202141007224 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : UMBRELLA DEVICE

(51) International classification	:G06F0003044000, A45B0025000000, F16H0019040000, B60S0001080000, A45B0023000000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
Title: UMBRELLA DEVICE ABSTRACT An umbrella device (100) comprising: a base (102) provides a rigid support to the umbrella device (100); a telescopic pole (104) enables a height adjustment of the umbrella device (100); locking elements (110a-110b) enable locking and/or unlocking of one of, a bottom hollow pipe (106a), a middle hollow pipe (106b) and a top hollow pipe (106c); a linear gear (116) to open and/or close a canopy (112); a circular gear (118) to enable a movement of the linear gear (116); a rain sensor (120), to sense a value of waterdrops; a control unit (122) configured to: receive the sensed value; compare the received sensed value with a pre-defined value; and actuate the circular gear (118) to rotate in an anti-clockwise direction to enable the movement of the linear gear (116) in an upward direction to open the canopy (112) when the sensed value exceeds or equal to the pre-defined value. Claims: 10; Figures: 5 Figure 1A is selected.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/02/2021

(21) Application No.202141007225 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : RICE TRANSPLANTING APPARATUS

(51) International classification :A01G0022220000, A01C0011000000, F16H0001280000, B62M0006650000, F03G0007100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Title: RICE TRANSPLANTING APPARATUS ABSTRACT A rice transplanting apparatus (100) comprising: a lower base (102) and an upper base (104) provided to give a rigid support to the rice transplanting apparatus; a handle (106) to enable a user to pull the rice transplanting apparatus (100); a wheel shaft (108) having ground wheels (110a-110b), to generate a rotary motion in an anti-clockwise direction; a first sprocket (114) to rotate in the anti-clockwise direction; a second sprocket (116) to receive the rotary motion from the first sprocket (114); a first gear (122) to rotate in the anti-clockwise direction based on the rotary motion received from the second sprocket (116); a second gear (124) to rotate in a clockwise direction, when the first gear (122) is meshed up with the second gear (124); and mechanical arms (134a-134b), to grasp rice seedlings from a paddy support plate (128) in response to a reciprocating motion generated by a four-linkage mechanism. Claims: 10; Figures: 9 Figure 1B is selected.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/02/2021

(21) Application No.202141007226 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR WATER PURIFICATION

(51) International classification :C02F0001520000, C02F0009000000, C02F0001440000, C02F0001000000, C02F0001320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Title: SYSTEM AND METHOD FOR WATER PURIFICATION ABSTRACT Disclosed is a water purification system (100), the system (100) comprising: a first water receptacle (102) for receiving turbid water to be treated; a first filtration module (104) arranged inside the first water receptacle (102), wherein the first filtration module (104) comprises a natural coagulant for treating the turbid water; a stirring apparatus (106) for turbulent mixing of the turbid water in the water receptacle (102) for coagulation and flocculation of particles in the turbid water to destabilized and settle non-settleable solid particles at a bottom of the first water receptacle (102); and a second filtration module (112) arranged at an outlet (110) of the first water receptacle (102), wherein the second filtration module (112) comprises a filter paper (114) for removal of micro-sized particles from the turbid water. Claims: 10, Figures: 4 Figure 1A is selected.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2021

(21) Application No.202141008030 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A COMPOSITION FOR IMPROVING GLUCOSE AND LIPID PROFILE AND A METHOD OF PREPARATION THEREOF

(51) International classification	:A23L0027100000, A23L0027140000, A23L0023100000, A23L0002560000, A23G0004060000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present disclosure provides a composition for improving glucose and lipid profile, said composition comprising: red chilli in an amount ranging from 5% to 30% by weight of the composition; turmeric in an amount ranging from 5% to 30% by weight of the composition; cumin in an amount ranging from 5% to 25% by weight of the composition; black pepper in an amount ranging from 5% to 25% by weight of the composition; green cardamom in an amount ranging from 2% to 20% by weight of the composition; fenugreek in an amount ranging from 5% to 20% by weight of the composition; and bay leaf in an amount ranging from 5% to 30% by weight of the composition. The present disclosure further relates to a method of preparation of composition for improving glucose and lipid profile of a subject/consumer in need thereof.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2021

(21) Application No.202141008406 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A LOW COST NET ZERO ENERGY BUILDING MANAGEMENT SYSTEM BY CONTROLLING LOAD FACTOR

(51) International classification :G06Q0050080000, C12M0001107000, G06Q0050060000, C04B0028260000, E04B0001760000
(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

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(57) Abstract :
7. ABSTRACT The present invention relates in building a net zero energy consuming buildings energy management system (1). The invention relates in evaluating full-range of energy efficiency, energy conservation, and utilization of onsite renewable energy resources by calculating the base building initial EPI value. At each level, the EPI value has to be decreased. Finally, if it reaches a minimum level, the building is said to be an energy-efficient building. Now, by introducing Green building materials, sensors (3), intelligent switch (4), data interface module (5) and intelligent terminal like mobile phone are connected to onsite renewable energy resource to convert building to become a energy conservation building code (ECBC) having EPI = 0 kwh/m2/year. Finally, integrating onsite renewable energy resources, a building becomes a zero energy building keeping the better economic benchmark. The abstract is associated with the figure 1.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2021
(21) Application No.202141012087 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SMART WEARABLE DEVICE AND METHOD FOR ESTIMATING TRADITIONAL MEDICINE SYSTEM PARAMETERS

(51) International classification :A61B0005000000, G06F0003010000, G06F0001160000, A61B0005020000, A61M0005200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
SMART WEARABLE DEVICE AND METHOD FOR ESTIMATING TRADITIONAL MEDICINE SYSTEM PARAMETERS ABSTRACT A wearable device (102) for estimating traditional medicine system parameters is disclosed. The wearable device (102) includes light sources, configured to stimulate skin of a patient through light rays. The wearable device (102) includes sensors (104), configured to capture patient health parameters. The plurality of subsystems includes a medical input data collection subsystem (112) configured to collect patient information, blood pulse parameters and the captured patient health parameters. The plurality of subsystems includes a health status computation subsystem (114), configured to apply the collected patient information the captured one or more patient health parameters and the blood pulse parameters onto trained machine learning model and estimate real time set of traditional medicine system parameters. The plurality of subsystems also includes a disease identification subsystem (116), configured to compare the real time set of traditional medicine system parameters with pre-stored traditional medicine system parameters, identify a disease and give recommendations. FIG. 1

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2021

(21) Application No.202141014948 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF ROUTING HEALTH DATA IN A WIRELESS BODY BIO-SENSOR NETWORK

(51) International classification	:A61B0005000000, H04W0072040000, G16H0010600000, H04L0012733000, H04L0029080000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Title: METHOD OF ROUTING HEALTH DATA IN A WIRELESS BODY BIO-SENSOR NETWORK ABSTRACT A method (300) of routing data of a patient (102) in a Wireless Body Bio-Sensor Network (100), wherein the method (300) comprising steps of: sensing the data associated with a health of the patient (102) by biosensor nodes (104a-104h); classifying the sensed data into an emergency data and a normal data by comparing values of the sensed data with corresponding threshold values; allocating a data transmission route to the corresponding biosensor nodes (104a-104h); allocating a time slot to the biosensor nodes (104a-104h) having the normal data of the classified data based on a Time Division Multiple Access (TDMA) technique; receiving the classified data by a sink node (106) from the corresponding biosensor nodes (104a-104h) based on the allocated data transmission route and the time slot; and transmitting the received data associated with the health of the patient (102) from the sink node (106) to an Internet of Things (IoT) (110). Claims: 10; Figures: 14 Figure 1B is selected.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2021

(21) Application No.202141015449 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGEMENT OF HOTEL OPERATIONS

(51) International classification :G01N0021350400, H04N0005330000, H02J0007000000, B67D0001080000, G01N0021351800
(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

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(57) Abstract :
Title: SYSTEM AND METHOD FOR MANAGEMENT OF HOTEL OPERATIONS ABSTRACT A system (100) for management of hotel operations, wherein the system (100) comprising: a motion sensor (102) to sense an amount of infrared light; a gas sensor (104) to measure a concentration of gas in a surrounding atmosphere; and a control unit (120) configured to: receive the sensed amount of infrared light and measured concentration of gas from the motion sensor (102) and the gas sensor (104); compare the sensed amount of infrared light and the measured concentration of gas with a pre-defined amount of infrared light and a pre-defined concentration of gas respectively; actuate a Negative-Positive-Negative (n-p-n) transistor (112) to energize a relay (108) to turn on in-built lights (126a-126n), when the sensed amount of infrared light is not equal to the pre-defined amount of infrared light; and enable a sound unit (114) to generate an alert, when the measured concentration of gas exceeds the pre-defined concentration of gas. Claims: 10; Figures: 4 Figure 1A is selected.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/03/2021

(21) Application No.202141015450 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SMART HOME MANAGEMENT SYSTEM

(51) International classification :H04L0029080000, G05B0019418000, H04W0084180000, E03D0005100000, G08B0013190000
(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

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(57) Abstract :
Title: SMART HOME MANAGEMENT SYSTEM ABSTRACT A smart home management system (100) comprising; a processor (102); a non-transitory storage medium (104), a sensor network (106) adapted to be in communication with the processor (102) wherein the sensor network (106) comprising: an ultrasonic sensor (108) placed at a top of a water tank (200) to detect a water level in the water tank (200) to automate the storage of the water, an ultrasonic ping sensor (110) adapted to detect an arrival and/or departure of a vehicle to automate the parking shed gate (300); a light sensor (112) to detect an arrival of a post and a passive infrared (PIR) sensor (114) arranged in a proximity of a main gate (500) to detect a presence of a person at the main gate (500), wherein on detecting the presence of the person the processor (102) transmit a signal to trigger a bell buzzer (124). Claims: 10, Figures: 7 Figure 1 is selected.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/04/2021

(21) Application No.202141016956 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF ENHANCING PHOTO-ABSORPTION IN QUANTUM DOT SENSITIZED SOLAR CELL AND DEVICE THEREOF

(51) International classification :H01G0009200000, H01L0031035200, H01L0031180000, G02F0001133570, H01L0031023200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Not Submitted.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/04/2021

(21) Application No.202141017474 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SOCIAL DISTANCING DETECTOR FOR COVID-19

(51) International classification :G06Q0050220000, G06Q0050000000, G08B0021180000, G08B0021220000, G08B0025010000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Title: SOCIAL DISTANCING DETECTOR FOR COVID-19 ABSTRACT Disclosed is a social distance detection and alert system (100) comprising a wearable device to be worn by a user wherein, the wearable device comprising: an ultrasonic sensor (110); a PIR sensor (112); a temperature sensor (114); and a social-distancing unit. The social-distancing unit (116) comprising; a sensor configuration module (202); a data collection module (204); a data storage module (206); a data comparison module (208); a notification module (210); and a communication module (212). The system (100) is configured to: collect a set of sensed parameters; compare the sensed parameters with a predefined set of parameters; generate a notification on the basis of compared parameters; transmit the generated notification to a user device; display the notification on the user device; and alert the user when any person/object is moving or standing in close proximity and when the user's body temperature is above predefined normal temperature range. Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/07/2021

(21) Application No.202141031389 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : RUBBER COMPOSITION WITH WASTE / RECYCLED RUBBER MATERIAL IN RUBBER COMPOUND AND METHOD THEREOF

(51) International classification	:B60C0001000000, C08J0011280000, C08L0017000000, C08K0005130000, C08L0009020000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
The present invention relates to the field of rubber compositions with higher proportion of waste/recycled rubber material in rubber compound. More particularly, the present invention relates to a rubber composition comprising higher dosage of Whole Tyre Reclaimed rubber (WTR) with Mooney Scorch time values ranging from 4.5 minutes to 11.0 minutes which provides better polymer-filler interaction, lower rolling resistance and consistent physical properties of rubber vulcanizate. Additionally, the invention relates to method of selection of WTR based on Mooney Scorch time for providing rubber compositions with improved processability. Advantageously the invention relates to use of WTR for environmental and economical benefit.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/08/2021

(21) Application No.202141036050 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS AND SYSTEMS FOR EFFICIENTLY MANAGING PRODUCTS AND SERVICES IN THE SUPPLY CHAIN

(51) International classification	:G06Q0010080000, G06Q0030060000, G06Q0010060000, G06Q0030020000, H04L0012660000
(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

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(57) Abstract :
ABSTRACT METHODS AND SYSTEMS FOR EFFICIENTLY MANAGING PRODUCTS AND SERVICES IN THE SUPPLY CHAIN Embodiments herein disclose methods and systems for managing products and services in the supply chain to efficiently utilize them and to reduce wastage. Embodiments herein disclose methods and systems for representation of the inventory in its storage spaces for easy access to the users. Embodiments herein disclose methods and systems for connecting consumers between them and with vendors to provide offers, procure products and services, and reduce their wastage. Embodiments herein disclose methods and systems for generating virtual inventory map depicting the visual representation of the storage spaces and listing of products and services available in the inventory on this visual representation of the storage spaces.

No. of Pages : 60 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/09/2021

(21) Application No.202141042461 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Nano-lignocellulosic biocompost production for sustainable agriculture

(51) International classification :C05F0003000000, C12N0015820000, C05F0017500000, C05F0011080000, C12N0009000000
(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

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(57) Abstract :
This invention relates to the microbial based nano-lignocellulosic materials that is abundant agricultural waste for agricultural and plantation activities. This biocompost contains enzymes and plant growth promoters with high CN ratio manure for various crops. This compost is efficient, eco-friendly and alternative to chemical fertilizers.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/12/2021

(21) Application No.202141060620 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Design and Development of Multiparticulate Mini Tablets of Verapamil Hydrochloride for Pulsatile Drug Delivery Pattern

(51) International classification :A61K0009200000, A61K0009480000, A61K0009280000, A61K0009500000, A61K0047100000
(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

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(57) Abstract :
This invention relates to design and development of multiparticulate pulsatile release minitablets of verapamil hydrochloride for the treatment of hypertension. The core minitablets were prepared by wet granulation technique followed by compression using 2mm multi-tip punches and coated with water insoluble polymer like ethylcellulose with addition of water soluble plasticizer (PEG400).

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/01/2022

(21) Application No.202241000989 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A MALWARE DETECTION SYSTEM TO IDENTIFY MALICIOUS FILES AND A METHOD THEREOF

(51) International classification :G06F0021560000, H04L0029060000, G06F0007580000, G06N0020000000, 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

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(57) Abstract :
ABSTRACT A MALWARE DETECTION SYSTEM TO IDENTIFY MALICIOUS FILES AND A METHOD THEREOF The present disclosure describes the field of a malware detection system (100) to identify malicious files. The A malware detection system (100) comprises a repository (102), an input module (104), an extractor module (106), a random number generator module (108), and indicative module (110), a fuzzy controller module (112). The extractor module (106) is configured to extract a set of features from the PE file and process the extracted. The random number generator module (108) is configured to generate random numbers to select m models and n different techniques. The indicative module (110) is configured to receive the generated random numbers and generate a first probability value and a second probability value indicative from each of the selected m' models and n techniques. The fuzzy controller module (112) is configured to receive the probabilities values and to apply a pre-defined set of fuzzy rules.

No. of Pages : 26 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/01/2022

(21) Application No.202241002653 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A NOVEL VIDEO RETRIEVAL SYSTEM AND METHOD BASED ON TEXTUAL INFORMATION

(51) International classification	:G06F0016783000, G06F0016780000, G06F0016710000, H04N0021482000, G06F0016957000
(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

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(57) Abstract :
ABSTRACT THE NOVEL VIDEO RETRIEVAL SYSTEM AND METHOD BASED ON TEXTUAL INFORMATION The novel video retrieval system (100) and method (200) based on the textual information is configured to extract relevant videos from Web based on a search keyword extracted from a user query sent via a user device. The system (100) comprises a rules repository (111), a receiving module (101), a video extraction module (102), a video processing module (104) and an output module (108). The rules repository(111) stores a plurality of pre-set rules. The receiving module (101) parse said search keyword. The video extraction module(102) extract a plurality of videos from the Web based on said parsed search keyword and further configured to generate a video list of said extracted videos. The video processing module (104) select each video sequentially from said video list to rate each video using said pre-set rules to create a rated list. The output module (106) display it to said user on said user device.

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/01/2022

(21) Application No.202241002654 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A REVERSIBLE DATA HIDING SYSTEM AND METHOD FOR IMAGE TRANSMISSION

(51) International classification	:G06T0001000000, H04N0001320000, H04N0019467000, A61B0001000000, G06K0009180000
(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

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(57) Abstract :
ABSTRACT A REVERSIBLE DATA HIDING SYSTEM FOR MEDICAL IMAGE TRANSMISSION The present disclosure relates to a reversible data hiding system and method for image transmission. The system(100) is installable in a user device and the system comprising an input module (102), a processing module (104), a text embedding module (106), a transmitting module (108), an extraction module (110), a restoration module (112). The input module(102) is configured to receive an image and a text file via the user device. The processing module(104) is configured to extractpixel information and a plurality of pre-set parameters of the processed image. The text embedding module(106) is configured to embed the text file into the processed image. The transmitting module(108) configured to transmit the embedded image to another user device via web. The extraction module(110) configured to extract the text file from the embedded image.

No. of Pages : 44 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/01/2022

(21) Application No.202241003715 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Development of Plant Health Monitoring and Irrigation System

(51) International classification :A01G0025160000, A01G0022000000, A01G0007000000, G05B0015020000, A01G0009160000
(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

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(57) Abstract :
The system describes the plant health monitoring system using an IoT platform. The primary goal of automation is to offer people with comfort by eliminating manual work and, improving overall performance without requiring user engagement. Temperature, humidity, water, soil moisture, pH (104), EC (105), and, soil temperature are all important factors in plant growth quality and production. Information on the plant's health can be provided to the user, by regularly monitoring and, recording these signs. And the owner may directly monitor and control this information using IoT via the Blynk app (111) on their smartphone. (Refer Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/01/2022

(21) Application No.202241003716 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Ultrasonic Blind Stick Using Arduino Nano

(51) International classification :A61H0003060000, A61B0010000000, G01S0007521000, G01V0008100000, A45B0001000000
(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

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(57) Abstract :
The objective of this paper is used to help the blind people and they are able to easily interact with the physical world by using this smart blind stick. This stick with ultrasonic sensor detects the object in front of the person and give response to the user by alarm from the buzzer. So, the person can walk without any fear. Another LDR sensor are used in the stick to identify the day and night for the blind people. The microcontroller (Arduino Uno R3) to receive the sensor signals and process them to short pulses to the Arduino pins where buzzers are connected. (Refer Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/01/2022

(21) Application No.202241004527 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METAL TUBE WITH PUNCHABLE END TO FACILITATE END TO END TUBE JOINING

(51) International classification	:F16L0055110000, A63B0060160000, H05K0003100000, C01B0003380000, B65D0041120000
(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

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(57) Abstract :
ABSTRACT A metallic tube (100)for transfer of liquid or gas comprises of shaft portion and proximal portion (103) having a uniform thickness and having an external diameter and internal diameter and a bulged distal portion (101) comprising of uniform thickness and having an external diameter and internal diameter, inner surface and outer surface, wherein the internal diameter is equal to the external diameter of the shaft/proximal portion (103) and the bulged distal portion (101) comprising of grooves and O rings (102) placed within the grooves along the inner surface of the bulged portion and the bulged portion is crimped to form annular deformations to prevent disengagement. Fig.1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/01/2022

(21) Application No.202241005221 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SYSTEM TO FACILITATE SECURE TRANSMISSION OF AN IMAGE ALONG WITH EMBEDDED TEXT

(51) International classification :H04N0001320000, H04L0009320000, H04L0029060000, H04N0021234700, H04W0012020000
(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
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(57) Abstract :
ABSTRACT A SYSTEM TO FACILITATE SECURE TRANSMISSION OF AN IMAGE ALONG WITH EMBEDDED TEXT The present disclosure envisages a system (100) to facilitate secure transmission of an image. The system (100) comprises an input module (102) to receive an input image, an analog to digital (A/D) converter (104), a processing module (106), a text embedding module (108), an encryption module (110), a transceiver (118), a decryption module (120), a digital to analog (D/A) converter (126). The A/D converter (104) receives and converts the image into digital format having pixels. The processing module (106) is configured to receive and crop and enhance the pixels. The text embedding module (108) and the encryption module (110) are configured to encrypt the pixels and embed a text into the encrypted pixels and generate an encrypted data file. The decryption module (112) retrieves the encrypted image along with embedded text using decryption key. D/A converter (126) convert the retrieved image and text into readable and viewable form.

No. of Pages : 36 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2022

(21) Application No.202241010151 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGN AND MANUFACTURING OF SPUR GEAR USING 3D PRINTING

(51) International classification	:F16H0055080000, G06F0030230000, F16H0057000000, F16H0055100000, F16H0055260000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Title: Design and Manufacturing of Spur Gear using 3D printing The idea of using asymmetric tooth profiles has gained popularity in practice of gearing design. Similarly to the symmetric basic rack gears, tooth action parameters are calculated during the first stage, while the unified generating basic rack for a pair of mating gears during the second stage. In certain cases the parameters of specific basic rack tooth profiles are set for each gear in a transmission. The gearings with asymmetric profiles display an advantage in having the increased pressure angle over the operating profiles (via the pressure angle reduction over the non-operating profiles) and a possibility of considerable increase in the face contact ratio. In this thesis, a comparative investigation of symmetric and asymmetric tooth profiles will be analyzed using finite element analysis Ansys. The symmetric and asymmetric (different pressure angles) tooth profiles will be designed and modeled in 3D modeling software CAT1A. Structural analyses will be done on the designs with different materials (mild steel and EN 32 steel). ' -• ' -

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/02/2022

(21) Application No.202241010152 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE TOOL FOR COVID-19 DETECTION FROM CHEST X-RAY IMAGE CLASSIFICATION

(51) International classification :G01N0033569000, C12N0007000000, A61B0006000000, G16H0050800000, 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

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(57) Abstract :
COVID-19 is an infectious and contagious disease pandemic that spread over 200 countries in the past year. Meanwhile, COVID-19 has become a serious health threat for the entire world that causes respiratory problems, heart infections, and even death. This virus first reported in a human being in December 2019 in Wuhan, China2 rapidly crossed the continent borders due to intensive travelling among countries. COVID-19 has had an adverse impact on the world economy too. Research studies found out that the COVID-19 virus badly affects the lungs and promptly mutates before the patient receives any diagnosis led medication. The situation becomes more severe when the symptoms match the normal fu, as in the Southeast and Central Asia cases. Experts found out that the incubation period of COVID-19 virus is approximately 1 week. This observation is crucial because the infected patient acts as a virus carrier during this period and unintentionally transmits it. Due to its rapid contagious nature, its spread is much faster than its detection. Machine learning methods are very popular in healthcare applications. There are various methods used to detect the presence of a COVID-19 virus in patients, such as RTPCR test, X-ray imaging, computed tomography (CT) scan, rapid antigen, serological test.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/03/2022

(21) Application No.202241011081 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENT, IOT BASED DETECTION AND PREVENTION OF DISEASED TISSUES IN BRAIN, KIDNEY, LUNGS AND HEART USING MACHINE LEARNING FOR HEALTH CARE MANAGEMENT

(51) International classification :G16H0050300000, A61B0005000000, G06N0007000000, G06N0020000000, A61B0005010000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Artificial intelligent, IoT based detection and prevention of Diseased Tissues in Brain, Kidney, Lungs and Heart using Machine Learning for health care management Abstract: In recent years, heart failure has become a significant hazard to people's lives. Even as the risk of death from heart illness increases, there is currently no easy technique to determine if you have it. This inspired us to develop a novel technique for detecting diseased tissue. This was accomplished through the use of the Median Filter and Bayesian estimations, which we will discuss in greater detail in the following section. This method of estimating the organ's form is extremely precise in measuring the area and volume of the organ. One can determine the amount of blood that moves in response to changes in surface area and volume using these criteria. Blood flow through the object being analysed would be an excellent indicator of any abnormalities. This approach has been shown to significantly reduce calculation time, requiring only 1.26s.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2022

(21) Application No.202241011139 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC GRAIN DISPENSING AND WEIGHING APPARATUS AND METHOD THEREOF

(51) International classification	:B65F0001000000, G01G0019520000, G07F0017000000, A01D0041127000, A01K0005020000
(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
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(57) Abstract :
An automatic grain dispensing and weighing apparatus (100) comprising: a frame (102); a container (104) having compartments (108a-108n) to store different types of grains; compartment lids (110a-110n) attached at a bottom opening of the corresponding compartments (108a-108n); and a board (106) comprising: a vessel (114) to receive a specific type of the grains; an input unit (118) to receive input of a compartment number and a quantity of the grains; and a control unit (122) to: receive the input of the compartment number and the quantity of the grains from the input unit (118); actuate a motor (112) to open one of, the compartment lids (110a-110n) to dispense the grains onto the vessel (114); activate a load sensor (116) to sense a weight; compare the sensed weight of the vessel (114) with the quantity provided by the user; and close one of, the compartment lids (110a-110n).

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2022

(21) Application No.202241011252 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC OXYGEN LEVEL MONITORING SYSTEM FOR CLOSED AIR CONDITIONING AREAS

(51) International classification :F24F0011300000, B01D0053020000, F24F0011620000, F24F0011580000, F24F0011000000
(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
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(57) Abstract :
Human activities are increasing the level of carbon dioxide in the atmosphere. Pollution is more prevalent in enclosed spaces with air conditioners. A closed area with an air conditioner is made up of oxygen-depleted air because air conditioners do have air purifiers, but they only purify contaminants in the air through filters. They do not detect any oxygen level in the air inside a closed area. With improvements in sensor and control technology, air quality is now determined by the level of CO2 in a space. Therefore, a building can have no minimum outside air requirements. When CO2 levels in space rise too high, this equipment will activate an alarm so that people are warned up. This is frequently used in commercial and public buildings such as classrooms, offices, etc.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011362 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT-BASED AUTOMATED RATION DELIVERY COMPUTING SYSTEM WITH IMPROVED TRANSPARENCY

(51) International classification	:B65D0088120000, G06Q0050260000, H02J0013000000, H04L0012660000, G06N0020000000
(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

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(57) Abstract :
The researchers have developed a smart, IoT-based government ration distribution program that responds to the significant challenges that currently exist in the Public Distribution System (PLS). The challenges can be unusual quantification of products, erroneous presentations in the action registers of the centers, erroneous details of products and services that are transmitted to customers and inaccurate transport of products to beneficiaries. Humans overcome these advantages and disadvantages by implementing an intelligent measurement system of a computer-controlled electrical device that authenticates the consumer. Appropriately indicates products, regularly updates the national product selection database and it digitizes the distribution monitoring by improving the accountability of the PDS.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011365 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Cloud based child education monitoring system using Internet of Things

(51) International classification :H04L0029080000, G06Q0050200000, H04L0029060000, G06K0009000000, G06F0016950000
(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

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(57) Abstract :
One of the aspirations of the process to build society and contribute to human resources, welfare and prosperity would be education. Because of the diversity of activities, learning and privacy issues in educational institutions were consistently important. Intelligent learning techniques have been put in place to improve the learning process, but education monitoring has already been ignored both inside and outside organisations. Smart monitoring and sensor systems have been used to implement new integrated technologies. The main objective of this research would be to explore Internet of Things (IoT) technologies specifically designed for education to provide intelligent and reporting systems for learning parameters. This research also offers a Monitoring system for the Internet of Student Education Things (MISET) for smart schools, which would be dependent on a new sophisticated communication platform that combines 5G Mobile communication technologies, smart sensors, advanced driver assistance systems, & IoT connections. The proposed system offers enhanced surveillance, alarm function and makes it easier for customers to get to their homes and schools. The proposed methodology was assessed with respect to information, timing and response warning factors.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011411 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : surface engineered carbon fibers for composite marine/composite propeller applications

(51) International classification :C25D0013020000, G01N0003240000, D06M0101400000, C08K0009100000, A61L0027320000
(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

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(57) Abstract :
The surface of carbon fibre (CF) is chemically inert, the surface free energy is low, the compatibility of the CF surface with the polymer matrix is low, the interfacial shear strength of the composite material is low, the interlayer shear strength is low, and the mechanical property and service life of the composite material are influenced, all of which have an impact on its applicability in the development of CF-based ship propeller systems. The invention seeks to overcome the shortcomings of the prior art by providing a method for improving the interface performance of a carbon fibre surface via electrophoretic deposition of functional polymer microspheres. First, the CF surface is treated to improve adhesion to the polymer particles; then, different morphologies and particle sizes are electrophoretically deposited on the CF surface, thereby improving the interface performance of the CF and the polymer base material which facilitates the applicability of CF in development of high performing marine components.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011498 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PREDICTING SMOKING LEVEL BY MACHINE LEARNING ALGORITHM FOR E-CIGARETTES

(51) International classification :A24F0047000000, A24B0015160000, A24D0003040000, G08B0017113000, G01N0033680000
(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
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(57) Abstract :
There is not much difference between normal cigarette and e-cigarette. Basically both are cigarettes and cause harm to health. A person's physical harm is caused by the habit of cigarette. Due to smoking, the surrounding environment is poisonous, due to this the lungs of those who do not smoke cigarettes, are also affected by cigarette smoke. To overcome this problem, we research the technology to test the smoke released in the atmosphere. Drawing number 1, figure 2 shows a physical diagram of how an e-cigarette is used. Drawing number 2 is the block diagram, it is shown in this, the block showing the block level status before the block diagram. It detects this smoke label and sends further information to the smoke detector.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011499 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD BY IMPLEMENTING ARTIFICIAL INTELLIGENCE FOR DIAGNOSING PATIENTS IN HOSPITALS

(51) International classification :G16H0040200000, G16H0010650000, G06N0020000000, G16H0040670000, G16H0050300000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
ABSTRACT A hospital treats three types of patients in different ways, with the help of online software, with the help of an artificial intelligence. And all three get the right facility at the right time. Its first block shows the contact of all the three patients of the hospital, and in the first phase, the first patient who is generally ill, whom the doctor prescribes the medicine immediately and he gets the immediate benefit by bringing the medicine from the market. By using this technique, we can prevent large crowd from gathering in the hospital. And along with providing the right benefits to the patient, he also gets freedom from the process of waiting for hours. This technique is really useful; by using it we can make our medical system more developed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011504 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AGRIBOT FOR DISEASED PLANT DETECTION AND WEED REMOVAL AND METHODS THEREOF

(51) International classification :A01M0007000000, A01C0021000000, A01C0023040000, A01B0079000000, G01J0003500000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards agribot for diseased plant detection and weed removal and methods thereof. The agribot comprising: a plurality of processing devices configured to receive input data from an image capturing module and a plurality of sensors, process and classify the data based on plant parameters such as color of leaves, size of plant to identify diseased or healthy plant and weed/agricultural crop respectively. Based on the specific instructions provided by the first, second and third processing device, a robotic arm pulls out the weeds from agricultural crops, and if the leaves colour is yellow etc herbicide/insecticide or fertilizer is sprayed on the agricultural crops. FIG. 1

No. of Pages : 28 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011527 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOCLAVABLE SILICONE SLEEVE FOR DENTAL HANDPIECES

(51) International classification :A61C0001180000, A61C0001080000, A61C0001000000, A61C0001050000, A61C0001120000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
TITLE: AUTOCLAVABLE SILICONE SLEEVE FOR DENTAL HANDPIECES APPLICANT: MEENAKSHI ACADEMY OF HIGHER EDUCATION AND RESEARCH ABSTRACT The present invention discloses an autoclavable protective sleeve adapted to protect dental hand pieces from damages due to accidental falloff. The autoclavable protective sleeve comprises of sheath adapted to snug fit the dental hand piece configured to surround the dental hand piece from head to connecting end through shank and characterized by engravement of anti-slip groove and serrations throughout the sheath thereby providing grip and convenience without altering the tactile sensation while performing dental procedures. The autoclavable protective sleeve is adapted to protect dental handpiece selected from a group comprising of straight handpieces, High speed & slow speed contra angle handpieces, ultrasonic scaler handpieces.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/03/2022

(21) Application No.202241011589 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF SYNTHESIZING NANOPARTICLES CONJUGATED WITH EXOPOLYSACCHARIDE, AND NANOPARTICLES THEREOF

(51) International classification :C12P0019040000, A61K0008730000, A61K0009510000, A61K0031721000, A61K0008990000
(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

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(57) Abstract :
A method of synthesizing nanoparticles conjugated with exopolysaccharide, which exhibit anti-inflammatory properties, is disclosed. Said method broadly comprises the steps of: obtaining bacterial colonies of Halomonas desiderata by serial dilution and spread plating on Zobell marine agar; obtaining a crude exopolysaccharide; and obtaining a purified exopolysaccharide. About 1% by weight of said purified exopolysaccharide is mixed with about 1% by weight of zinc oxide and about 2% by volume of prop-2-enoic acid. Nanoparticles conjugated with exopolysaccharide, which exhibit anti-inflammatory properties, are also disclosed. The results of testing provide a clear indication of active role of the nanoparticles conjugated with exopolysaccharide in preventing oxidative damage and inflammation.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202241011732 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTING IMPORTANT EPISODES OF ECG BASED ON DEEP LEARNING TECHNIQUES

(51) International classification	:A61B0005000000, A61B0005040800, A61B0005045200, A61B0005040000, A61B0005046800
(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
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(57) Abstract :
ABSTRACT METHOD AND SYSTEM FOR DETECTING IMPORTANT EPISODES OF ECG BASED ON DEEP LEARNING TECHNIQUES An electrocardiogram (ECG) is a medical tool to diagnose the important episodes of the heart to treat cardiac patients effectively. ECG is a graphical tool that records the electrical activity of the heart. Hence, analyzing these records are very important in diagnosing cardiac disorders. Manual detection of important episodes in long-term ECG is very difficult; hence an automated diagnosis tool is required to detect these important beats. Traditional machine learning techniques are difficult to implement as manual feature extraction is needed. Therefore, a deep learning-based automatic feature extraction and classification is proposed in this work. The proposed method can classify five different types of crucial episodes based on AAMI standard, i.e., Non-ectopic beats (N), Supraventricular ectopic beats (SVE), Ventricular ectopic beat (VEB), Fusion beat (F), Unclassified beat (Q). The proposed methodology simplifies the feature engineering methodology and provides better accuracy than the recent techniques.

No. of Pages : 26 No. of Claims : 5

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(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202241011736 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Photovoltaic power generation structure with safety diagnosis based on IoT

(51) International classification :H02S0020300000, H02S0050100000, B63B0035440000, H02S0020320000, H01L0031042000
(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

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(57) Abstract :
[09] The IoT-based photovoltaic power generation structure equipped with a safety diagnosis function converts light energy of sunlight into electric energy to generate power, outputs the generated power, and uses multiple When configured, a photovoltaic module connected in parallel or series to constitute one unit photovoltaic string, a support structure installed so that the tilt angle can be selectively adjusted while the photovoltaic module is supported from the ground, and the diameter of the photovoltaic module. A solar module angle control device for controlling the tilt angle of the solar module to be changed according to external environment information when it is installed at an angle to change the blind angle, a vibration sensor formed on the support structure to sense the vibration value of the support structure , a tilt sensor formed between the solar modules to measure the tilt angle of the solar module and the tilt angle received from the tilt sensor and the tilt angle controlled by the solar module angle control device of the tilt angle of the solar module and a safety diagnosis device that temporarily checks whether there is an abnormality, and finally confirms whether the tilt angle of the solar module is abnormal according to the vibration value of the support structure according to the confirmation result, and provides it to an external server. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5]

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202241011741 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ENHANCED COMMUNICATION FOR MOBILES

(51) International classification :H04B0017318000, G07F0007080000, H04W0052240000, G01S0011060000, H04W0004021000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention is an enhanced communication for mobiles comprises of, a receiver is used to collect the data from various a mobile node thereby, it is for a specific location, thereby, assessing the entire signal to that vicinity, therein, which increase the strength on that particular location. It provides the improvement in getting prefect signal in particular location. It assesses the signal strength at each location. So, location based tracking is easier. Specific location may have multiple nodes thereby, it segregates the each node. Node based assessment is specific feature is enabled herein. Individual strength at the vicinity is gathered even from the multi receiving points. So, node analysis and segregation is unique identity in this technique.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202241011932 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IOT based smart secure device to deliver fast and high quality equipment/ medicine using cloud computing technology in medical field

(51) International classification :G06Q0050220000, H04L0029080000, G16H0040200000, G16H0050300000, G16H0010600000
(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

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(57) Abstract :
IOT based smart secure device to deliver fast and high quality equipment/ medicine using cloud computing technology in medical field ABSTRACT Prior to the Internet of Things, patients and physicians could connect solely in person, over the phone, or by text message. Doctors and hospitals were unable to monitor and counsel patients on a continuous basis. Remote monitoring is now possible in the healthcare field thanks to IoT-connected devices. This enables physicians to give superior care and assure their patients' safety. Additionally, it has made it easier and faster for patients to contact clinicians, which has resulted in increased patient involvement and enjoyment. As a result of the remote monitoring, patients spend less time in the hospital and are less likely to require readmission. The Internet of Things has the potential to significantly lower healthcare costs while simultaneously improving treatment outcomes (IoT). By reinventing how devices and people cooperate in healthcare delivery, the Internet of Things (IoT) is transforming healthcare. The Internet of Things can benefit individuals who rely on healthcare (IoT). It has a number of potential benefits for patients, physicians, hospitals, and insurance companies. If you require high-quality medical care in a remote place, the Internet of Things can connect a range of medical devices, sensors, and health care professionals. Patients' safety and financial savings have increased significantly, as has the availability of health care services. Medical uses of IoT (HIoT)-based technologies are discussed in this article. We've examined how health-care-related IoT apps can assist in resolving health-care challenges. Enabling technologies, healthcare services, and IoT applications have all been addressed in this context. Additionally, the HIoT system's possible difficulties and obstructions are studied. Finally, this study summarises the diverse fields in which HIoT can be utilised. This will aid future scholars seeking employment and advancement opportunities in the field.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202241011933 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Artificial intelligent based detection and prevention of various Breast Cancer using Machine Learning and Big Data for health care management

(51) International classification	:G06N0003040000, G16H0050300000, G16H0050200000, G16H0010200000, G16H0050700000
(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
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(57) Abstract :
Artificial intelligent based detection and prevention of various Breast Cancer using Machine Learning and Big Data for health care management Abstract: Breast cancer claims the lives of more women than any other type of cancer on a global scale. It is one of the deadliest diseases a woman may develop. Numerous factors contribute to breast cancer's progression and death, including the disease's difficulty in diagnosis and the fact that many women conceal their symptoms. As a result, organisations throughout the world are initiating campaigns to increase awareness about the critical nature of early detection of breast cancer. This study makes use of big data techniques such as transfer learning and convolutional neural networks to assist patients in acquiring a breast cancer diagnosis. The purpose of this research study is to discuss how these two technologies were combined to build a workable model.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/03/2022

(21) Application No.202241011965 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO PROFILE THE DNA SEQUENCES TO PREDICT THE HEREDITARIAN TRAITS OF CRIMINAL

(51) International classification :G06K0009000000, G06N0003040000, G06N0020000000, G01N0033533000, G01N0033580000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Machine learning based approach to profile the DNA sequences to predict the hereditarian traits of criminal is the proposed invention. The invention aims at profiling the DNA sequences and thereby identifying and counting each repeat at the markers. The proposed invention will profile the DNA sequences of criminals to check if those traits will pass on for generations through hereditary.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/03/2022

(21) Application No.202241011966 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MACHINE LEARNING BASED ANALYSIS OF NONVERBAL COMMUNICATION ASPECTS OF EMPLOYEES OF AN ORGANIZATION AND MANAGE THEM EFFECTIVELY

(51) International classification :G06Q0010060000, G06K0009000000, A61B0005110000, H04N0007140000, G06K0009620000
(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
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(57) Abstract :
Machine learning based analysis of nonverbal communication aspects of employees of an organization and manage them effectively is the proposed invention. The invention focuses on studying the nonverbal communication such as facial expressions, body movement and postures gestures, eye contact, touch, space and voice etc. The proposed invention aims at studying the behaviors of an employee based on these activities and thereby help the organization to analyze them effectively.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/03/2022

(21) Application No.202241012016 A

(43) Publication Date : 25/03/2022

(54) Title of the invention : A SMART ROAD CLEANING SWEEPER MACHINE DRIVEN BY ARTIFICIAL INTELLIGENCE AND TECHNIQUE.

(51) International classification :A47L0011400000, E01H0001080000, A47L0011240000, G06N0020000000, A47L0009280000

(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

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(57) Abstract :

The smart road cleaning sweeper machine driven by artificial intelligence and technique comprising to the road cleaning sweeper machine. The present invention more relates to the smart cleaning sweeper machine, which is run by artificial intelligence and technique parameters and particular to a kind of Intelligent cleaning robot based on advanced Path Planning Technique And its clean method., also driven by machine learning techniques and image processing sources. And wherein debris receptacle consists of a receptacle inlet open to the brush chamber such that dust swept up by rotation of the comb assembly, is moved by way of rotation of the comb assembly via the comb chamber, and is propelled through rotation of comb assembly into debris receptacle via the receptacle inlet, that's immediately adjoining the brush chamber, also wherein a pressure machine for autonomously shifting the independent floor cleaner over the floor to cleaned based on inputs from the controller. [Figure 1]

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/03/2022

(21) Application No.202241012017 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Service Oriented Knowledge Model for Object-Object Interaction in Social Internet of Things (SIoT)

(51) International classification :G06N0005020000, H04L0029080000, G06Q0030060000, G06Q0010000000, 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
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(57) Abstract :
The objective of the present invention is to propose the relationship conditions and design the process model to discover services in a Social Internet of Things (SIoT) environment. The Present invention is to add knowledge model to the objects for discovering services in Social Internet of Things (SIoT). The knowledge model operates on the control gates (103, 112, 104, 105) to establish relationships and also take necessary decision to discover the services in the objects. (Refer Fig. 1)

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/03/2022

(21) Application No.202241012024 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGN AND CONSTRUCTION OF INTELLIGENT A LOW-COST IOT SOLUTIONS ARTIFICIAL NEURAL NETWORKS (ANN) TO GET MAXIMUM POWER POINT TRACKING (MPPT) IN SOLAR POWER PLANTS

(51) International classification :F21S0009030000, F03D0009340000, F21W0131103000, F24S0023710000, G09B0019000000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
IoT has a dream wherein the web stretches out into this present reality, which joins ordinary items. The IoT permits objects to be detected or controlled somewhat over the existing organization foundation, setting out open doors for unadulterated joining of the actual world into PC-based frameworks, moreover bringing about better capacity, exactness also monetary asset notwithstanding decreased mortal mediation. This development has various applications like sunlight-based metropolitan regions, small towns, Mini lattices, Solar Street lights, etc. Renewable energy was created at a rate speedier than later in history during this period. The proposed framework alludes to the web-based showcase of the power utilization of sunlight-based energy as a sustainable power. Savvy Monitoring shows day by day use of sustainable power. This assists the client in the examination of energy usage. Investigation impacts on the sustainable power utilization and power issues.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/03/2022

(21) Application No.202241012026 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A HELLO DRIVE

(51) International classification :G06Q0010100000, G06Q0050200000, G09B0007000000, G01C0021360000, F24F0011620000
(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
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(57) Abstract :
The Present inventions discloses a platform to collaborate driving school and the learners for a easy access, as the learning of driving is very paramount for everyone now a days. Therefore, applicant intend to aid the accessibility to learn driving by bringing a platform where the applicant collaborate all the driving schools that involves the application where an individual can access the nearby driving schools at his/her free time. this application is not only for learners but also for the driving schools where they find their customers frequently. there is an online platform for an individual driving school, by this applicant mean that this application makes the learner to find all the driving schools nearby and with the safest learning experience. The current application provides an OTP and GPS information for the learner which ensures the security of the learner and learner can change the training route if they feel the route is not safe and the GPS information of the new route is also shared to the learner.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012044 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRESCRIPTIVE DATA ANALYTIC ALGORITHMS USING QUANTUM MACHINE LEARNING FOR METROLOGY APPLICATIONS

(51) International classification	:G06N0020000000, G06N0007000000, G06K0009000000, A63F0013670000, G06K0009620000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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(57) Abstract :
For many years, Machine learning which is an application of artificial intelligence has been an attention grabbing topic due to its ability in understanding computer algorithms and automatically developing the performance through the experienced knowledge. To perform needed tasks automatically in multiple areas such as medicine, metrology, speech recognition and computer vision machine learning algorithms has been used in a wide range of applications. As an alternative to classical machine learning algorithms, the rapid advancement of technologies has opened the doors for the emerging quantum machine learning technology, where the data are generated from quantum experiments. Based on the computer programs predictions data and experiences, this quantum machine learning technique is being used by the perspective analytic algorithms to help business decide the course of action. Thus, in this proposed model we have used perspective data analytic algorithm implemented with the help of quantum machine learning techniques which present improved data storage capability and computational data speed performing ability to overcome the challenges and provide better performance of the metrology applications.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012045 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A PROCESS FOR PRODUCING CHITOSAN INHIBITING AMYLOIDAL BETA PROTEIN AGGREGATION IN NEURO 2A CELL

(51) International classification :C08B0037080000, C08B0037000000, C02F0001000000, A61B0005000000, H04W0072120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :
The current invention is a method for extracting chitosan from freshwater crab waste that includes four steps: demineralization (DM), deproteinization (DP), decolorization (DC), and deacetylation. IR, Raman, XRD, UV, FESEM, thermal stability, element analysis, and degree of decatylation were used to characterize the chitosan. Chitosan has great thermal stability and deacetylation, and it may be able to inhibit Neuro 2a cell degeneration.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012140 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IOT, AI, ML, DL based identification and prevention of Tropical- Cyclones using Satellite Image

(51) International classification :G08B0027000000, G06Q0050260000, G06Q0010060000, G01W0001100000, G06N0007000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
IOT, AI, ML, DL based identification and prevention of Tropical- Cyclones using Satellite Image Abstract: Each year, up to 90 tropical cyclones (TC) form, making them the most common type of storm on Earth. It is vital that TCs are detected and tracked in real time to provide early warnings to affected communities. Remote sensing is crucial when storms begin thousands of miles from land. Using satellite images, we can now detect TC in real time. This is owing to the invention of a novel method for deep learning. Three key components of our system for assessing the presence of thunderstorm cells (TCs) in this study. To optimise the process's performance, the entire pipeline's hyperparameters are optimised using Bayesian optimization. The proposed method achieves a precision of 97.10 percent, a specificity of 97.59 percent, and an accuracy of 97.59 percent (86.55 percent). When one occurs, it is one of the most devastating natural disasters, capable of wreaking havoc on human, economic, and environmental systems. While there is no way to prevent a natural disaster from occurring, there are ways to mitigate the risk by being aware of the disaster's probable existence and expected timing. Following the 2004 tsunami, India's government said that it will increase its preparedness for and response to disasters. Indian lawmakers passed the Disaster Management Act on December 23, 2005. The Prime Minister's National Disaster Management Authority was founded, led by the Indian government (NDMA). It follows the establishment of national, state, district, and municipal disaster management cells. The crisis management cell is unique in the world. The utilisation of an early warning system and current technology helps to minimise the likelihood of a tragedy. The essay that follows looks into catastrophe prediction and early warning systems, as well as the critical role of communication and information technology in disaster management.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/03/2022

(21) Application No.202241012141 A

(43) Publication Date : 25/03/2022

(54) Title of the invention : The impact of Motivational & Incentives on the Performance of Employees

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0030020000, G06Q0050220000, G09B0005000000

(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

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(57) Abstract :
The impact of Motivational & Incentives on the Performance of Employees Abstract: The current study examined the effect of employee incentives on productivity. The study's primary objective was to ascertain how motivated individuals were and how this drove them to do well in their jobs. All of these qualities were taken into account: job satisfaction, performance and efficiency levels, organisational productivity, and employee loyalty. Additionally, the study enquired about the staff's popularity. The study enrolled 154 individuals. A simple random approach was employed to choose 15 banks for the inquiry from a pool of 41 institutions. The data collection instrument was a questionnaire. SPSS was used to conduct statistical analysis on the data. The study discovered that both monetary and non-monetary recognition-based incentives were successful methods of motivating employees. After testing the assumptions, it was observed that motivating incentives had an effect on employee performance. Employees were found to be disloyal to their organisations and were more likely to seek new employment if given the opportunity. The study's findings indicate that money alone is insufficient to drive people to labour. Employees should be compelled to participate in self-improvement programmes in addition to being given increasingly difficult assignments.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012142 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Accounting Information System (AIS) as a Management Device to Improve Decision Making

(51) International classification :G06Q0040000000, G06Q0010060000, G09B0019180000, G06Q0010000000, G06Q0030040000
(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

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(57) Abstract :
Accounting Information System (AIS) as a Management Device to Improve Decision Making Abstract: Each day, accounting data must be updated to ensure that consumers have access to the maximum amount of information feasible. This enables the user to make a more educated decision about their investment in a reporting company. There is a compelling case to be made for this, as accounting information pervades every sector of the economy. Without this data, the economy would be unable to function or survive. It was chosen as a case study for this research project due to the aviation industry's importance in today's business environment. To do this, I'm going on devote a great deal more time to accounting methods and procedures, as well as how accounting information assists the Agency in making decisions in this case. Historically, humans have placed a high premium on the act of management to guide their behaviour. The effectiveness of an organisation can be determined by how successfully its management run it. When this occurs, you will require performance management to assist you in resolving the situation. This is a position that involves both technical expertise and the ability to make sound judgments. Accounting can assist with decision-making and business management. The primary objective of the design of an accounting system is to provide financial data. The data is intended to assist individuals in making sound judgments about a company's financial health and performance. It is critical for those in control of a firm to understand where it stands in comparison to other businesses in the same area or to previous eras. This understanding is critical. This is possible due to accounting data.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012143 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A smart wearable device for early detection and identification of COVID-19 cases

(51) International classification :A61B0005000000, H04L0029060000, G16H0050200000, G06N0020000000, G06Q0050220000
(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

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(57) Abstract :
ABSTRACT [1] The world has been facing the challenge of COVID-19 since the end of 2019. It is expected that the world will need to battle the COVID-19 pandemic with precautious measures, until an effective vaccine is developed. [2] This work proposes a real-time COVID-19 detection and identification system. The proposed system would employ an Internet of Things (IoTs) framework to collect real-time symptom data from users to early identify suspected coronaviruses cases, to monitor the treatment response of those who have already recovered from the virus, and to understand the nature of the virus by collecting and analyzing relevant data. [3] The framework consists of five main components: Symptom Data Collection and Uploading (using wearable sensors), Quarantine/Isolation Center, Data Analysis Center (that uses machine learning algorithms), Health Physicians, and Cloud Infra-structure. To quickly identify potential coronaviruses cases from this real-time symptom data, using machine learning algorithms. An experiment was conducted to test this system on a real COVID-19 symptom dataset, after selecting the relevant symptoms.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012144 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Intelligent charging Station based on Internet of Things

(51) International classification	:B60L0053300000, B60Q0001520000, B60L0058100000, G08B0021040000, B60L0053660000
(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

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(57) Abstract :
ABSTRACT IOT Enabled Charging Station System for Electric Vehicle Aspects of the present disclosure relate to system (100) for IOT enabled charging station (101) for charging electric vehicle (104). The system (100) generates an alert for battery of electric vehicle (104) nearby charging station (101) for a user. The system (100) comprises a charging station (101), a charging grid (102), a bidirectional convertor (103), an electric vehicle (104), power storage (105), sensor (106), a navigation module (107), controller (108), cloud storage (109) and an electronic device (110). The controller (108) processes information of the charging stations (101) based on location. The location is received from a navigation module (107). The navigation module (107) generates the alert with available stations. The navigation module (107) includes GPS (Global Positioning System). (FIG. 1 will be the reference figure)

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012151 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AI BASED IOT CYBER PHYSICAL SYSTEM FOR PREGNANT WOMAN HEALTH MONITORING IN RURAL AREAS

(51) International classification :B64C0039020000, G06Q0010060000, G05D0001000000, G06N0020000000, A61B0010000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
In interior rural areas, monitoring and taking care of pregnant women's health is a big problem. The maternal mortality rate in India is very high compared to developed countries. Here we propose a cyber-physical system that employs robotic vehicles, drones and other semi-manual modules to monitor and medicate pregnant women. This project aims to reduce the maternal mortality rate in India by a huge margin. IoT, AI, Machine Learning, Robotics, Cloud Computing and Drone Technology are all contributing fields to this cyber physical project. This invention presents a cyber physical system in which the following activities are done by drones: pregnancy testing kit delivery and collection, urine sample collection for pregnancy test, weighing machine delivery and pickup, manual blood sample collection with delivery to the testing center and medicine delivery. The input device to the cyber physical system is the mobile application installed in the phone of the woman or her kin/friends in the same locality. A medical professional from the nearest government health center can also initiate these drone based activities mentioned above. The data from the initiator is sent to the server from which the drone activity is initiated. The drone operation team gets the initiation message from there and the drone corresponding to that activity is initiated. Upon completion of the task, the completion message is sent from the medical professional in the hospital and an authorized member of the drone operation team.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012152 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : UNDERWATER ROBOT FOR UPROOTING PLANTS IN LAKES

(51) International classification :C02F0003320000, A01K0061100000, A01D0044000000, C02F0103000000, B25J0005000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
Most inland water bodies which are sources of freshwater for people and animals alike are filled with certain aquatic plants which in some cases consume the major portion of the water and also affect the marine fauna. These plants overgrow covering all areas of the lake and are generally destructive to biodiversity. Most inland water bodies are the major source of local freshwater supply. Keeping these water sources perennial is vital for the communities that depend on them. Manual clearing of vast areas of lake infested with such fast growing plants is both dangerous and time consuming. Application of robotics to this problem can prove effective. The robot presented here travels on underwater terrain with wheels. Differential drive mechanism is employed. This robot employs a hydraulic slotted link mechanism for clamping the plants and a vertical chain sprocket based conveyor mechanism for uprooting. The proposed robot consists of DC motor based differential drive mechanism for mobility. The robot has a chain sprocket based vertical conveyor mechanism that will uproot the clamped stem of the underwater plant. The robot moves from the ground into the water body. The robot submerges as the depth increases slowly. There is a threshold water level depth below which the robot does not go. If the water level depth is more than the fixed threshold height then the robot is not operated at those regions.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012257 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Oil Skimmer by Using Roller

(51) International classification :B01D0017020000, C02F0101320000, E02B0015040000, E02B0015100000, C02F0001400000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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Filing Date :NA

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(57) Abstract :
Aim is to design a skimmer that separates the oil that has been spilled or leaked in the water. The environmental effects of such oil spills are not negligible as this is a global problem now days. Every year, there is 100 million US gallons of oil spill. To prevent this designed an oil skimmer that separates the oil that has been spilled in the water. Oil is typically sticky and can either sinkhole, float or remain neutrally buoyant and remain suspended in the water column when spilled. Various elements can influence this main and effect recovery exertion including water temperature, weathering, and emulsification after some time. Recovery attempt when managing substantial petroleum are confused by the doings of the oil when compared with lighter petroleum, and their effect is generally more prominent because of Coast Guard and industry inability to effectively and efficiently react. Continued efforts to distinguish and track heavy oil spills are hampered to some extent by inefficient and ineffective methods currently used to recover surface and subsurface oil.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012264 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MODEL FOR IMPLEMENTING VIRTUAL REALITY(VR) IN EDUCATION

(51) International classification :G06F0003010000, G02B0027010000, H04N0013239000, A63F0013428000, A63F0013212000
(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

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(57) Abstract :
ABSTRACT MODEL FOR IMPLEMENTING VIRTUAL REALITY(VR) IN EDUCATION The present disclosure is directed towards a model for implementing virtual reality (VR) in education. The present disclosure discloses a control software , controls and communicates with each others ,configured with the HMD ,haptic devices and a VR database.The present disclosure also discloses, HMD device comprises of a built-in display and lenses worn on the head or as part of a helmet that allows the user to experience the virtual world with the help of a wide viewing angle, head and hand movements tracking, and objects interacting with controllers in it.The control software extracts and synthesis the images and videos stored in the databse into 3D formats and send to the projector configured with the PC , later on the students or any other persons can view the VR classes through the projection wall with the help of HMD and its components

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012276 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Formulation of organic and non-organic components for rapid wound healing and control of infection for diabetic patients

(51) International classification :A61K0047100000, A61K0009000000, A61K0033380000, A61L0031160000, A61K0038170000
(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

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(57) Abstract :
Organic and non-organic components are combined in the present invention to promote quick wound healing while also controlling infection in the body. The antibacterial agent, the antioxidant, the cell proliferation promoting factor, and the organic component responsible for matrix formation are the components of the present invention, i.e., the formulation. Formulations for gels, liquid solutions, and biodegradable scaffolds may be created by combining these four components in pre-determined amounts, which are both safe and have a synergistic impact on one another.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012280 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Modern method of high strength concrete structure

(51) International classification :E04C0003340000, E04H0009020000, E04B0001340000, F24F0005000000, E04C0003040000
(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

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(57) Abstract :
In building construction, the invention pertains to a technique for producing high-performance concrete core columns. Building construction and axial pressure ratio of high-rise building columns are solved by adding core columns, additional longitudinal steel bars, and a complex stirrup technology, which further reduces the sectional area of the columns in ultra-limit buildings, achieving the economic benefits of saving land and saving materials, further improving the deformation of the co. Among the advantages of using this method is that it's simple to use; it's easy to build, with significant benefits for speeding up the construction process; and it can be used in a wide range of applications, including high-rise, multi-layer, and multistory buildings with strict requirements on axial pressure ratios and ant seismic and fortification controls.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012281 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Autonomous medicine supply robot for hospitals based on wireless beacon network and 5g network

(51) International classification :G05D0001020000, G05D0001000000, G01S0005000000, G01S0005020000, G05B0019418000
(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
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(57) Abstract :
It is revealed an autonomous vehicle is capable of establishing its location in space by using enhanced communications with beacons to navigate. The autonomous vehicle determines its location by using time of flight and angle information, and it is capable of intelligent interaction with the beacons.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012284 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A CLOUD COMPUTING SYSTEM FOR VARIOUS HARDWARE TROUBLESHOOTING SERVICES PLATFORMS AND METHOD THEREOF

(51) International classification :G06N0020000000, G06F0011070000, G06F0011300000, H04L0029080000, 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
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(57) Abstract :
The present invention discloses a cloud computing system for various hardware troubleshooting services platforms and method thereof. The system includes, but not limited to, one or more processing units coupled to a memory unit, the processing unit executing an analysis application in conjunction with instructions stored in the memory unit, wherein the analysis application is configured to identify a machine learning module that matches error signals of components of a cloud-based service by analyzing training data that includes historical data with previously detected service issues for a predefined hardware equipment. Further, the processing unit is further configured to remove a periodic pattern from the error signals with the machine learning module to filter the periodic pattern from an error count in the error signals, wherein the error count is computed as a number of errors generated by the components of the cloud-based service. Accompanied Drawing [FIG. 1]

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/03/2022

(21) Application No.202241012389 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PREDICTING PROGNOSIS AND GUIDING TREATMENT DE-ESCALATION IN HPV POSITIVE HEAD AND NECK CANCERS

(51) International classification :G01N0033574000, C12Q0001688600, A61K0009000000, A61K0031710500, A61K0048000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present invention relates to a method Biomarker for predicting prognosis among Head and Neck cancer patients who are undergoing standard cancer therapy involving chemo-radiotherapy. This method includes measuring the expression of p16 a marker of HPV infection (101), NQO1- a surrogate of NRF2 activity (102), and p53 (103) by immunohistochemistry in FPPE bio specimen from patients with Head and Neck cancer. The candidate with p16high, NQO1low, and p53low signatures shall be stratified as better responders to treatment and the same can be guided towards treatment de-escalation. The definition of high and low expression shall be decided based on the traditional IHC scoring and or Histoscore H-score. (Ref. Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012404 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SECURITY AWARE ROUTING PROTOCOL FOR WIRELESS MESH NETWORKS USING HYBRID META-HEURISTIC SYSTEM

(51) International classification	:H04W0040020000, H04W0004060000, G06F0009451000, H04W0040260000, G06N0003120000
(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

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(57) Abstract :
SECURITY AWARE ROUTING PROTOCOL FOR WIRELESS MESH NETWORKS USING HYBRID META-HEURISTIC SYSTEM The present invention relates to a security aware routing protocol for wireless mesh networks using hybrid meta-heuristic system. The Hoopoe Heuristic (HH) simulation has been helped inspire by it and style after all life anyway that whole gives added relatives anyway. it was indeed supposed that its full designed to detect invasion into account would be anyway that whole identity distinguishable kind, where it might well be splatted in to one of clumps after all employment or allotted of about one per detector station throughout that whole process. along this trial, this same regulation chipset sent the positive pile provide versus every yeah that whole staying hubs complete be intercepted, or then wants to collect an observed info of each connector. Figure 1

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012405 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : EFFICIENT AND SCALABLE DATA TRANSMISSION PROTOCOL FOR WIRELESS MESH NETWORKS SYSTEM

(51) International classification	:H04N0021234300, H04W0080020000, H04W0084180000, H04W0080000000, H04L0012723000
(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

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(57) Abstract :
EFFICIENT AND SCALABLE DATA TRANSMISSION PROTOCOL FOR WIRELESS MESH NETWORKS SYSTEM The present invention relates to an efficient and scalable data transmission protocol for wireless mesh networks. In this scalable data transmission protocol, the mobility-based clustering is done over the WMN for dividing the network into various clusters. Subsequently, an optimal selection of CHs from the network is used to improve the stability and connectivity among the nodes. The time slot obtained from the MAC protocol is used to accomplish the data broadcasting among the cluster members and CH. These kinds of protocols are considered as attractive as it supports the rich communications among the structure of the protocols. Therefore, it provides the improved flexibility for both the design and run-time. But, this cross-layer interaction alters the way of protocol organization, therefore it requires new system-level designs. Figure 1

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012454 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD AND SYSTEM FOR RESOLVING THE CYBER SECURITY THREATS IN THE FULLY AUTOMATIC AUTOMOBILES USING K-NN PSEUDONYM ROUTE ANALYSIS

(51) International classification :G01C0021360000, H04L0029080000, G01C0021340000, G06F0016953700, H04W0004020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A method for operating a fully automatic self-driven smart and intelligent automobile to be utilized in the real time scenario comprises the steps of reducing the spatial query access latency by leveraging the collected results from adjacent and surrounding peers in wireless broadcast environments using K-NN; verifying the said collected results, by the said automobile, to be a part of the spatial query access results collected at its pre-determined geographic location; decreasing the query access latency by correspondingly increasing the number of the smart automobiles; receiving, by the end user, a geo-location map including information concerned with user location, probable destination, live traffic information and the pseudonym route map from the source to the destination through the user module; generating, by the Location Based Service module (LBS), the end user's current location, traffic conditions in the said route and the pseudonym route log to the preferred destination; transmitting the said information to the pseudonym route saver module and finally calculating, by the pseudonym route saver module, the journey time, best possible route from the source to the destination by utilizing K-NN nearest neighbour queries.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012458 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MUTUAL INFORMATION FEATURE SELECTION (MIFS) BASED CROP YIELD PREDICTION ON CORN AND SOYBEAN CROPS USING MULTILAYER STACKED ENSEMBLE REGRESSION (MSER)

(51) International classification :G06Q0010040000, G06Q0050020000, G06K0009620000, H01L0021660000, G06N0003080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Crop yield prediction, model helps the farmers in order to make better decisions about the appropriate time to cultivate the crops and what types of crops to be cultivated based on environmental factors to produce better yield. Advanced ensemble regression crop yield prediction model is to predict the crop yield based on the phenotype factors includes precipitation, solar radiation, maximum temperature, minimum temperature etc., The Corn and soybean crops dataset includes 38 years of yield performance data collected across 105 different locations. Comparative analysis made between correlation and mutual information on the basis of feature selection. Most related features towards crop yield and achieved better predictions on crop yield though mutual information. Our proposed mutual information based advanced ensemble regression technique involved in the prediction process of crop yield on corn and soybean crops and achieved good prediction accuracy based on phenotype factors. The predicted yield performance of advanced ensemble regression crop prediction model outperformed several supervised machine learning and advanced ensemble learning algorithms. Various regression accuracy parameter metrics such as Mean absolute Error (MAE), Mean square error (MSE) and Root mean square error (RMSE) are also involved in performance measures. Our prediction results also ensure that weather and crop management parameters are most influential towards crop yield prediction rather than soil parameters.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012460 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PEOPLE CENTRIC COLLECTIVE INTELLIGENCE, DECENTRALIZED AND ENHANCED PRIVACY MOBILE CROWD SENSING BASED ON BLOCKCHAIN

(51) International classification	:G06Q0010060000, H04L0029060000, G06Q0010040000, H04L0009080000, H04W0088180000
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
Smart phones have changed the way we interact with this world and our peers. They have not only become powerful, but they have become affordable. In this current day and age, smart phones are getting smarter with every subsequent iteration. Every aspect of today's smart phones is far more efficient and powerful than the computers we had a few years back. Mobile Crowd sensing (MCS) is the recent attractive research area that follows the crowd's basic principle wisdom. Complex tasks can be performed easily with Mobile Crowd sensing (MCS) network using the enormous amount of human involvement and powerful mobile devices. Even though there are a plethora of options available to users in terms of services to choose from, the one thing that remains a concern is security, privacy & data breach. Mobile Crowd sensing -centralized design approach can give a lot of durable services. However, the trust of centralized Service providers can't be assured within the real world, owing to the profit-driven facts of Service providers , when the privacy policy goes into conflict with their profit, they're most likely to perform dishonest work, going against the work ethics and even performing malicious activities for gaining more profit.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012535 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Real time agricultural field monitoring system using IOT

(51) International classification :A01G0025160000, H04L0029080000, A01G0025020000, H04L0012240000, A01G0025060000
(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

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(57) Abstract :
The innovation is a cloud-based intelligent irrigation system. Linked IoT terminals, sensors, and an IoT terminal management controller are connected to the Internet of Things terminal management master controller with AI.. A wireless network links the Internet of Things terminal management controller to the cloud data centre for intelligent irrigation. The cloud data centre for intelligent irrigation is accessed by a user. All of these technologies are employed in a system that is easy to use, easy to set up, and easy to maintain; it has a high level of reliability; the transmission rate is fast; and an advanced Internet of Things intelligent irrigation system based on cloud computing is provided for application and endorsement.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012632 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A method of identifying the flow pattern of a nanoparticle-based drug delivery system

(51) International classification :A61K0009510000, A61K0047690000, A61N0005060000, A61K0047640000, 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

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(57) Abstract :
The present invention is related to drug delivery systems and a method to identify the flow pattern of drug delivery systems using nanoparticles (110) in a cylindrical tube (210). Nanoparticles (110) are injected into the blood vessel (140) nearest the diseased affected location (120), such as a tumor. The injected nanoparticles act like heat sources near the affected location (120). The drug is placed on the nanoparticles. The drug concentrates near the affected area/ gets absorbed by the areas, preventing the uniform drug distribution in the blood circulatory system. The nanoparticles (110) in the drug are trapped along with the fluid flow, and the effects of various parameters such as micropolar parameter, Brownian motion parameter, and Thermophoresis parameter are studied. The velocity and lux flow rate variations are calculated by models assisted by artificial intelligence and machine learning algorithms. The flux increases with elasticity, micropolar, thermophoresis, and coupling numbers.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012652 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Performance Improvements in DMFC methanol Energy Component

(51) International classification :H01M0008101100, H01M0008041860, B01J0035000000, G09B0019000000, H02J0001100000
(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

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(57) Abstract :
ABSTRACT Our research Performance Improvements in DMFC methanol Energy Component is a immediate methanol energy unit is genius presented utilizing an anode change strategy to work on the presentation of the energy unit framework and decrease the expense, size and weight of the power transformation system. The study proposes major viewpoints in regards to brief prologue to energy units and go on with a definite depiction of the immediate methanol energy component (DMFC). The fundamental DMFC activity standards and polarization qualities are given a depiction of every one of the parts that contain the layer terminal gathering (MEA). The concentrate likewise proposes a numerical model is created and executed in MATLAB SIMULINK for a Direct Methanol Fuel cell (DMFC) framework. The created model is the combination of all conceivable unique conditions, catching the drifters in the cell voltage, temperature of the cell, fuel, oxygen input/yield stream rates and cathode, anode channel temperatures/pressures because of changes in load ebbs and flows. The outcomes show the appropriateness of the model in anticipating the transient conduct of the molar stream rates, voltage and temperature.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012653 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Cyber Crime rate Prediction using Deep Learning and AI- Based

(51) International classification :G06Q0050260000, G06N0005040000, G99Z0099000000, G06F0016290000, G11B0015020000
(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

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(57) Abstract :
ABSTRACT Our Invention Cyber Crime rate Prediction using Deep Learning and AI- Based is a Investigation of wrongdoing is a strategic way to deal with the identification and appraisal of criminal examples and patterns. In various regards cost our local area significantly We need to go many places routinely for our day by day purposes, and ordinarily in our regular daily existences we face various security issues like seize, hijacking, and provocation. As a rule, we see that when we want to go anyplace at first, we are looking for Google Maps; Google Maps show one, two, or more ways of getting to the objective, however we generally pick the alternate way course, yet we don't comprehend the way circumstance accurately. Is it truly secure or not that is the reason we face numerous terrible conditions; in this work, we utilize different bunching approaches of information mining to investigate the crime percentage of Bangladesh and we additionally utilize K-closest neighbor (KNN) calculation to prepare our dataset. For our work, we are utilizing principle and auxiliary information. The number and types of crimes are expanding at a disturbing rate, compelling offices to foster effective techniques to go to preventive lengths. In the current situation of quickly expanding wrongdoing, conventional wrongdoing tackling procedures can't convey results, being slow paced and less effective. In this way, assuming we can think of ways of anticipating wrongdoing, exhaustively, before it happens, or concoct a machine that can help cops, it would lift the weight of police and help in forestalling violations. To accomplish this, we propose including AI (ML) and PC vision calculations and strategies. In this paper, we depict the aftereffects of specific situations where such methodologies were utilized, and which spurred us to seek after additional examination in this field. The primary justification behind the adjustment of wrongdoing location and anticipation lies in the when factual perceptions of the specialists utilizing such procedures. The sole reason for this study is to decide how a blend of ML and PC vision can be utilized by regulation organizations or specialists to recognize, forestall, and settle wrongdoings at a significantly more exact and quicker rate. In outline, ML and PC vision strategies can achieve a development in regulation organizations.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/03/2022

(21) Application No.202241012654 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Innovative Solutions to address Oral Health in Rural Communities

(51) International classification :A61Q0011000000, A61K0031122000, A24B0013000000, C07K0014685000, A61B0007040000
(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

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(57) Abstract :
ABSTRACT Our Invention Innovative Solutions to address Oral Health in Rural Communities is to a The customary preventive consideration of the teeth and gums is significant in keeping up with personal satisfaction and generally speaking wellbeing, assuming a part in forestalling sicknesses like diabetes and coronary illness. However, country networks regularly need sufficient oral medical services and consequently pass up the advantages of good oral wellbeing too. A few variables have been very much recorded as adding to the oral wellbeing difficulties of country America. Provincial people group need admittance to oral wellbeing suppliers because of geographic detachment and labor force deficiencies. A recent report observed that wellbeing proficiency is lower among provincial populaces. As far as oral wellbeing, chronic weakness proficiency can bring about unfortunate oral cleanliness and trouble in exploring the oral wellbeing framework. Moreover, rustic occupants with low wellbeing proficiency are bound to consume sugar-improved drinks and more inclined to dental caries, as per a 2016/2021 article. Provincial people group frequently observe fluoridated water frameworks to be cost restrictive. Cigarette smoking is more common in rustic regions than in metropolitan regions (24.24% of grown-ups in nonmetro regions versus 17.64% of grown-ups in enormous metro regions), as well as smokeless tobacco use (6.74% of grown-ups)

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202241012665 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SYSTEM AND DEVICE FOR NODAL DISTRIBUTION AND MOVEMENT IN A 5G MOBILE NETWORK USING DIFFERENT METHODS.

(51) International classification :G06Q0030020000, H04B0001382700, H04W0088060000, G06F0003160000, H04W0076270000
(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
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(57) Abstract :
The system and device for nodal distribution and movement in a 5G mobile network using different methods relates to the of mobile technology, 1G, was about voice. More particularly present invention relates to the 2G introduced short-messaging layer pieces, which can still be seen in today's texting features. The move to 3G provided the core network speeds needed to launch smartphones. And 4G, with its high data-transfer rates, gave us a video with minimal buffering and gave rise to many of the connected devices and services that we rely on and enjoy today. Now, people are beginning to experience 5G and its transformative capabilities with its supporting member's parameters. 5G networks would be smarter and more effective to serve huge amount of radio spectrum, from a basic sensor to a complex self-driving vehicle, from embedded sensors in all sorts of hardware to automated cars, from aircraft to smart businesses and towns.

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202241012714 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT controlled Hybrid Bone density Estimator

(51) International classification :A61B0005000000, A61B0006000000, A61B0008080000, B23K0026400000, A61B0005050000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
A non-invasive bone density viewer and estimator is a portable device, it will be operated using battery power and handy device to measure the bone density of the osteoporosis patients. This device work using the laser transmission reflection and refraction properties. Various level of light wavelength is passed through the body to extract the bone density using computational approximation with the property of light. Transmitted part of the light will be absorbed and the infrared light caused reflection in the portion of the object. Responsive signal will be absorbed using electronic circuitry for amplification and digital filters will be used with image processing methods. Extracted images will bring out the measurement from bone density in the bones in both the ends of the Region of interest.

No. of Pages : 4 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202241012732 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Experimental Investigation on Performance of Passive Direct Methanol Fuel Cell using dynamic active regions of Membrane Electrode Assembly with Nickel Current Collectors.

(51) International classification	:H01M0008101100, H01M0008041860, H01M0004860000, H01M0008100400, H01M0008102300
(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

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(57) Abstract :
ABSTRACT Our Invention Experimental Investigation on Performance of Passive Direct Methanol Fuel Cell using dynamic active regions of Membrane Electrode Assembly with Nickel Current Collectors is a creation connects with performance and fundamental perspectives concerning the Passive Direct Methanol Fuel Cell innovation that are mainly focusing on Membrane Electrode Assembly effective areas and perimeters. Hence it is required to analyze the best performance and to find out the highest power density of cell using various shapes by altering gasket openings of dynamic regions with equal areas and equal perimeters. Comparison of the shapes such as square, rectangular, rhombus, and circular active area forms and by using Nickel as current collector material is selected for evaluation. In the equal areas with gasket opening area of 1963.5 (+/-0.2) mm2, among circular, rhombus, rectangular and square shapes chosen for investigation on the performance of cell at 5 molar methanol concentration, square shape opening consisting of the perimeter of 177.2 mm has developed highest power density of 6.344 mWcm-2with a corresponding maximum current density of 65.2 mAcm-2. In the equal perimeters of 157.1 (+/- 0.2) mm of gasket openings, among circular, rhombus, rectangular and square shapes chosen for investigation on the performance of cell at 5 molar methanol concentration, Rhombus shape opening consisting of area 1400 mm2has developed the highest power density of 7.714 mWcm-2 with a corresponding maximum current density of 85.3 mAcm-2. In the large active areas, methanol consumption is slow because the current density is lower when compared to the smaller active areas. As a result, the surface-specific concentration on the ion-conducting membrane is being more, making a higher crossover of methanol over bigger active zones. The experimental investigation demonstrated that the size of the dynamic zone significantly affects the performance of the cell and its performance can be improved with the expansion in dynamic region size. In the vast dynamic regions, the current density is lower compared to the smaller dynamic zones where the methanol is expended gradually. So, the local concentration on the cell membrane is more and brings further fuel cross-over. The exothermic response that is involved on penetrated fuel and oxidant on cathode impetus generates more heat, which prompts an elevated working temperature. This elevated working temperature brings about superior electrochemical kinetics of fuel oxidation and a decrease in oxygen response, leading to superior cell performance. The internal obstruction decreases with expanding the size of the dynamic zone. This reality is good with the accomplished outcome. Even though the cell performance can be enhanced by expanding the size of the dynamic zone, with the research outcome as on date, it is revealed that tiny dynamic zones have its focal points, for example, more slow charge transfer obstruction, lesser flooding, even distribution of methanol dispersion, increasing of effective current gathering, minor expenditure on fabrication, and further, it is small in size and weight. It is also learned from the experiment that cell performance depends on the combined effect of (i) gasket opening shape, opening area, and its perimeter; (ii) the free open ratio and opening perimeter on the current collector plates. Comparison study referring to power and power density on dynamic section shows the influence of shapes and sizes of the geometry of effective MEA regions. The results obtained in the study show that the fuel cell performance is a function of membrane-active area size and shapes; current collectors opening area size and shapes. The experimental results indicate that with equal areas, the cell performance is best using square shape compared to circle, rhombus, and rectangle. However, in the equal perimeters, the cell performance is best using square shape compared to circle, rhombus, and rectangle.

No. of Pages : 21 No. of Claims : 7

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(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202241012796 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A processing herbal medicine and composition from medicinal plants for external skin applications and preparation method thereof

(51) International classification :A61K0036185000, A61K0008970000, A61K0009000000, A61K0036610000, A61Q0019000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
[27] The present invention discloses a processing herbal medicine and 5 composition from medicinal plant for external skin applications and preparation method thereof. The method for preparing the composition includes, but is not limited to, a combination of a water extract of an aerial part of Rhodomyrtus tomentosa; a water extract of an aerial part of Cipadessa baccifera; a methanol extract of a fruit of Woodfordia fruticose;.(10 Leaves of Cyphostemma auriculatum and Capparis divarcata) a water extract of a tender shoot of Camellia sinensis as an antioxidant; and cosmeceutically acceptable carriers. Further, the composition further comprising beeswax, stearic acid, glycerol monostearate, olive oil, Aloe vera gel, rose water, glycerine, triethanolamine, propylene glycol, geranium oil, 15 sandalwood oil, vetiver oil, methyl paraben and propyl paraben in amounts of 4.4-5%; 3.5-4%; 6.5-7%; 20-25%; 11-12%; 20-25% 14-18% 1.5-2%; 6-8%; 0.5-1%; 0.5-1%; 0.5-1%; 0.15-0.2% and 0.15-0.2% respectively, wherein the said constituents are expressed in terms of weight %.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202241012899 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Deep Learning and Artificial intelligent based detection and prevention of various Cancer (Oral, Blood, Lung, Breast, Mouth, Tumor size) using Machine Learning and Data Mining for health care management

(51) International classification	:G06N0020000000, G16H0050200000, C07K0016180000, G06N0003080000, G06K0009620000
(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

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(57) Abstract :
Deep Learning and Artificial intelligent based detection and prevention of various Cancer (Oral, Blood, Lung, Breast, Mouth, Tumor size) using Machine Learning and Data Mining for health care management Abstract: Cancer is rapidly spreading and expanding throughout the world. Oral cavity and neck cancer is one of the most deadly types of cancer because it develops and grows in the mouth and neck, where it can spread. Tobacco use is the major cause of oral cancer, particularly cigarette and cigar smoking. Excessive alcohol usage is another risk factor for developing mouth cancer. Thousands of people have died of mouth cancer as a result of the disease not being discovered early enough and treatment not being delivered promptly enough. Medical experts are devoted to developing a system capable of detecting and preventing the spread of this deadly disease. In this work, data mining techniques such as detection, classification, and clustering are utilised to identify individuals with oral cancer. A machine learning-based Deep Neural Based Adaptive Fuzzy System is used to detect and identify oral cancer. This study reveals how this technique can be used to detect and diagnose oral cancer (DNAFS). DNAFS is implemented utilising both a neural network and a fuzzy logic technique. Contrast data mining with DNAFS to discover the most efficient data classification methods. This method entails clustering using fuzzy C-Means, feature selection, and classification. Once you've recognised the individual, you're finished! Data mining techniques can aid in the discovery of critical relationships within massive datasets. Over 96.29 percent of the time, experiment outcomes were correct. A mistake occurs on average in less than 5 milliseconds, which is exceedingly fast. To do additional clinical research, the databases must be extensively evaluated.

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(12) PATENT APPLICATION PUBLICATION
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(22) Date of filing of Application :09/03/2022

(21) Application No.202241012900 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Industrial Internet of Things (IoT) System using Blockchain technology and improved Trust Evaluation method

(51) International classification :H04L0029080000, H04L0029060000, H04L0009320000, G06F0021640000, H04L0009060000
(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

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(57) Abstract :
Industrial Internet of Things (IoT) System using Blockchain technology and improved Trust Evaluation method Abstract: Because Industry 4.0 asserts the ability to create smart industrial Internet of Things networks, it marks the start of a new industrial revolution. Industrial applications and systems will grow increasingly sophisticated as a result of the use of a number of different gadgets and the individual personalities of a variety of different people and organisations. These complex processes and services, as well as their security and trust needs, must be factored into latency and resource consumption calculations. As a result, Blockchain and Edge Computing are critical technologies for achieving the aforementioned objectives while also expediting the transition to a new digital era. Blockchain technology can be used in an IIoT environment to ensure data integrity, trust, and security. Blockchain technology is a distributed approach for IIoT environment. The term BlockEdge refers to a framework that integrates these two technologies in order to address some of the current challenges facing IIoT networks. BlockEdge outperforms and consumes fewer resources in trials than a non-blockchain system. This proves that our solution outperforms non-blockchain systems.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202241012929 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Optimization of thermal conductivity and viscosity of refrigerants

(51) International classification :F25D0017020000, C09K0005040000, C09K0005080000, F25B0025000000, C09K0005100000
(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

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(57) Abstract :
The use of specific hydrofluoroethers (HFEs) as the low-temperature heat-transfer medium in secondary loop refrigeration systems is described in detail, as is an apparatus for performing the described procedure. With a low, fairly linear Temperature Difference Factor across the temperature range of -15 degrees Celsius to -65 degrees Celsius, these materials are suited for use as a low-temperature heat transfer medium. Nonflammable, nontoxic, and ecologically benign, the HFEs of the present invention has a high heat transfer capacity and a low viscosity across the working temperatures that are needed. A further advantage of these materials is that they do not undergo phase shifts across the range of working temperatures necessary, eliminating the need for pressurized systems due to their high boiling and low freezing points.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202241012938 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SMART IRRIGATION SYSTEM USING IoT's AND CONVOLUTIONAL NEURAL NETWORKS

(51) International classification :A01G0025160000, G06N0003040000, G06Q0050020000, G01D0021020000, A01G0013020000
(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

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(57) Abstract :
Agriculture plays an important role in the country's economy. The crop yield depends upon various factors like water, external temperature, the fertility of the soil etc. Among these, irrigation is one of the factors which need more human attention. In traditional method has two important things has to be considered, that is when to water and how much water will be sufficient for the crop to grow. The amount of water consumption is different for various crops. Crops like rice need more amount of water than wheat crops. This invention provides an automatic irrigation system based on Convolutional Neural Networks and Internet of Things, which can autonomously irrigate fields based on the soil moisture. The system makes use of weather data to predict the rainfall patterns and climate changes. It creates an intelligent system which irrigates the crop fields only when it requires as per the weather and real-time soil moisture conditions. In this system, the pump takes the input from CNN and sensors. Then based upon the moisture content, temperature and humidity of the soil the pumping motor will turns ON and OFF using Arduino. The farmers can access the information like status of the soil moisture, temperature, humidity, whether the pump is turned ON or not through IoT's any time. Thus it reduces the human intervention and an accurate amount of water can be provided to the field.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2022

(21) Application No.202241012946 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CYBER SECURITY HEALTH MONITORING SYSTEM USING IOT ENVIRONMENT

(51) International classification :H04L0029060000, H04L0029080000, G06Q0050220000, G16H0010600000, A61B0005000000
(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

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(57) Abstract :
The Internet of Things (IoT) is a rapidly expanding technology used exponentially in healthcare. Innovating medical gadgets and the Internet of Things have enhanced healthcare systems by remote monitoring and screening patients' health problems. Due to the large number of sensitive health data created by patients who do not want their private medical information published, dealing with IoT data security remains an essential worry and a challenging task. Networked healthcare and medical architecture are two terms that are often used. International medical and healthcare cybersecurity rules are being examined in depth. A built normative hierarchical model of worldwide cybersecurity standards is presented to aid in developing a trustworthy healthcare Internet of Things solution. It is proposed to use the case-oriented approach for cybersecurity evaluation of such systems, including the Advanced Security Assurance Case (ASAC) and an example of its use on a wireless insulin pump.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202241013079 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HUMAN BETA DEFENSIN-2 NANOPARTICLES IMPREGNATED ACELLULAR SCAFFOLD FOR DIABETIC WOUND HEALING

(51) International classification :A61L0027360000, A61L0027600000, A61K0009510000, A61L0027220000, A61K0038170000
(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

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(57) Abstract :
The invention discloses tissue engineered acellular dermal scaffold comprising human-β-defensin-II (HBD-2) loaded Polylactic glycolic acid (PLGA) nanoparticles (NPs) impregnated in collagen (COL) and chitosan (CS) for the effective management of diabetic wound (DW) healing. Poly (lactic-co-glycolic acid) (PLGA) supplies lactate that accelerates neovascularization and promotes wound healing. Human beta defensin-2 (HBD-2) is an endogenous human host defense antimicrobial peptide that modulates wound healing in combating infection and inflammation. Further, COL and CS was proven biodegradable polymers known for their tissue regenerative capability and stability. The scaffold provides as a skin base for wound healing, elasticity, and proper strength which supports the fibroblast and keratinocytes for tissue regeneration. Thus, the present invention helps in accelerated healing of diabetic wound.

No. of Pages : 46 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202241013084 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A Novel Method of Detecting IoT Malware using Deep Learning

(51) International classification :G06F0021560000, H04L0029080000, G06K0009620000, H04L0029060000, G06N0003040000
(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

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(57) Abstract :
In response to the growing availability of the Internet, the Internet of Things (IoT) is a network of devices that gather and transmit data across wireless networks without the need for human interaction. The IoT Malware is capable of scanning open ports for IoT services and launching a brute-force attack in order to get access to IoT. The analysis of malware in an IoT network of this nature is difficult. The IoT Malware Analysis System with Deep Learning Approach that has been disclosed here makes IoT Malware Analysis a simple task to perform. The present invention discloses a system for detecting threats in IoT networks and method thereof. The method and system include, but not limited to, a method of deep learning to detect the IoT Malware. The present invention disclosed herein is a Novel Method of detecting IoT Malware using Deep Learning comprising of: IoT Malware Dataset (201); Clean Dataset (202); Converter (203); Descriptor (204); Detection (205); Classification (206); used to detect and classify the various IoT Malwares present in the IoT Network. The present invention disclosed herein uses a deep learning approach to detect and classify the malwares. The Deep Convolutional Neural Network Classifier provides the Malware Classification Accuracy of 98.6%.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202241013171 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Advertising as a strong Tool for Business Development

(51) International classification :G06Q0030020000, G99Z0099000000, H04W0048080000, A01N0065000000, A42B0001200000
(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

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(57) Abstract :
Advertising as a strong Tool for Business Development Abstract: Marketing and advertising were examined in the study. The term advertising may be used to refer to any non-personal presentations or promotions made by an identified individual. Advertising's fundamental objective is to raise awareness of a brand and encourage consumers to choose it over another. As a result, it is impossible to overstate the value of this profession in terms of achieving a company's financial objectives. The inquiry utilised a case study of the Bottling Company. When it comes to advertising, you may anticipate that a huge organisation will be more relaxed than lesser businesses. That is not the case. The firm advertises its products through a range of mediums, including television, radio, print, and billboards. If advertising influences whether people buy something or not, how much does it influence individuals to stay loyal and how much does it influence sales These are only a few of the study's goals. Finally, the paper asserts that even household names must continue to advertise in order to be viable and develop over the long run.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202241013172 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Influence of IT (Information- Technology) on the Performance of the Manager

(51) International classification :G06Q0010100000, A61P0031100000, H04L0009080000, G01R0017140000, G06Q0050200000
(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

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(57) Abstract :
Influence of IT (Information- Technology) on the Performance of the Manager Abstract: Users of information want, among other things, to have credible information at their fingertips, to maintain connections with individuals all over the world, and to have devices that fit comfortably in their top pocket. Consumers, clients, students, teachers, and employers all rely on digital technology, and it should work for us regardless of what we do with it. While information overload is not a new notion, as digital technology improves, it becomes increasingly difficult to manage and increasingly becomes everyone's duty. When we perform this research, we want to determine how well-versed company leaders are in information technology. Additionally, the fundamental objective of this study is to ascertain how well business executives utilise technology.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202241013173 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IOT and Cloud, Smart Grid Based Control-Algorithm for Hybrid Power Device Using Artificial Intelligent

(51) International classification :G06Q0050060000, G06Q0010060000, H02J0003000000, H04L0029080000, 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

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(57) Abstract :
Abstract: Our economy has grown at a breakneck pace, as has our demand for energy resources. A smart grid is a modern energy system that makes use of information technology and other technologies to improve the efficiency of the power system. As a result of this innovation, the smart grid is a modern energy system that makes efficient use of information technology and tools. According to a significant finding of this study, cloud computing will make it easier to collect and store grid data and parameters on a cloud-based system, cutting the cost of data storage devices in the power industry. If you use a cloud-based solution, you can push grid parameters or update grid information while keeping it secure. This application will aid in resolving the economic quandary surrounding the investment in storage equipment infrastructure. It will assist in reducing the amount of software that must be installed on PCs. designed to meet the country's electricity requirement

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/03/2022

(21) Application No.202241013174 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Supply Chain Coordination in the Internet of Things for Fresh Agricultural Products

(51) International classification	:G06Q0030060000, G06Q0010080000, H04L0029080000, G06Q0010060000, G06Q0030020000
(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

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(57) Abstract :
Abstract IoT is employed in the supply chain for garden-fresh agrarian products (FAPs), which can be synchronized via an income-sharing partnership. This research aims to make the different stages of the source system chain in the IoT coordination by enchanting into the stimulus of FAP on marketplace needs and the expenses of freshness control. One of this study's primary aims is better to understand the 3 tiered FAP supply system chain in IoT. As a result of this research, an enhanced revenue-sharing contract is developed, along with a profit-related model based on the practical solution whenever the supply chain accomplishes extreme profitability in three different decision-making scenarios. Using the improved revenue-sharing contract, manufacturers, distributors, and retailers in the IoT supply chain can all benefit from better supply chain coordination. After coordinating the supply chain, it is possible to increase the utilization rate of resources. Aside from reducing waste, IoT also improves FAPs' circulation efficiency, which reduces costs. A case study is recycled to test the model's validity.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202241013191 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Berberine Based Therapeutic Composition for Treatment of Anovulatory Infertility and Polycystic Ovary Syndrome

(51) International classification :A61B0017000000, A61K0036185000, A61B0018120000, A61K0031198000, A61P0015080000
(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

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(57) Abstract :
ABSTRACT: Title: Berberine Based Therapeutic Composition for Treatment of Anovulatory Infertility and Polycystic Ovary Syndrome The present disclosure proposes a berberine based therapeutic composition for treatment of anovulatory infertility and polycystic ovary syndrome. The proposed oral composition is effective and safe for comprehensive treatment of polycystic ovary syndrome (PCOS), infertility and anovulation without any side effects is disclosed here. The proposed composition provides no side-effects in treatment of infertility, polycystic ovary syndrome and anovulation. The proposed oral composition is made from natural ingredients, for treatment of PCOS and anovulation to thereby enhance fertility in women

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202241013226 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BEARING FITTER

(51) International classification	:B65G0047140000, F16B0005020000, F16B0041000000, B01F0007000000, B23P0019100000
(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
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(57) Abstract :
A hollow bolt that uses a screw mechanism to hold the bearing tightly and simultaneously align the bearing in a concentric manner to the axis of rotation using the tapered surface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202241013336 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Artificial Bionic Eye to assist Visually Impaired People with Artificial Vision

(51) International classification	:G09B0021000000, G06K0009620000, A61F0009080000, G06K0009000000, A61N0001360000
(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
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(57) Abstract :
It is learnt from the literature that nearly 40 million people around the globe are suffering from blindness and 124 million people suffer from vision impairment. Artificial Bionic Eye implant could enable working of existing structures of eye to interact with the brain. An electrode array is implanted in the retina of the visually impaired person. The camera mounted on the eye glasses captures signals and communicated with the implant. Supervised machine learning is employed in processing of captured video signals, in the stages of video recording, pattern recognition, scene simplification and sampling. The miniature camera captures the images and the same is analysed in a deep learning unit using convolutional neural networks and the pulse signals are transmitted. The titanium case consists of series of electronic components which are capable to simulate the eye retina implant for providing artificial vision.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2022

(21) Application No.202241013528 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN THE DIAGNOSIS METHODOLOGY USED BY INTEGRATED DIAGNOSIS METHOD OF AYURVEDA AND MODERN MEDICINE AND ALLOPATHY

(51) International classification	:G16H0050200000, G06Q0050220000, G06N0005020000, G16H0050700000, G06N0005040000
(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

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(57) Abstract :
Ayurveda an Indian Traditional Medicine (ITM) is played an important role since the ancient period in providing health care in developing countries. Before the invention of Modern Medicines, Herbal plants have a great history from the ancient period that was used in the treatment of many diseases. In developing countries like India, this information of the Ayurvedic treatment is been lost due to improper documentation of the Ayurvedic medicines that were used in curing many diseases. Lack of this evidence, people are diverting towards Allopathy Treatment, which is fast in relief, well-equipped technologies that are used in the diagnosis of many diseases which makes the decision faster to start the treatment. And well documentation is being maintained regarding the treatment of many diseases. Also from the last two years, the pandemic of COVID-19 has turned the entire universe into an immune system, the body's defense system against microorganisms that cause sickness, and also other organisms that may cause due to touch, inhale of air in the day to day life. Thus in the proposed model, we focus on the development of a Centralized Expert System in which integration of best methodologies used in both Ayurvedic and Allopathy will be useful in fast decision making for disease treatment. The system must also incorporate searching of herbs with a proper link, information validation, information extraction automatically from other collaborative resources and it must also incorporate user management using Artificial Intelligence(AI), Machine Learning(ML), and Deep Learning(DL) Algorithms. Thus providing an integrated Centralized Expert System with AI, ML, and DL on Ayurvedic and Allopathy will sure create the awareness of both Medicinal treatments, which will be useful in creating a healthy society, less expensive, fast diagnosis process, and environmentally friendly.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2022

(21) Application No.202241013549 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGNING A ROBOT WITH DIELECTRIC MATERIAL TO WORK IN HIGH VOLTAGE ELECTRIC ENVIRONMENT

(51) International classification	:B25J0009160000, B25J0019000000, B25J0011000000, G05B0013040000, B25J0005020000
(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

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(57) Abstract :
Designing a robot with dielectric material to work in high voltage electric environment is the proposed invention. The invention focuses on designing a robot that can replace humans who work in cautions and dangerous environments. The proposed invention will revolutionize the working model of electricity board by implementing robots to their work.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2022

(21) Application No.202241013575 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NUT LOCKER

(51) International classification	:B25B0013060000, B25B0021000000, B60B0003160000, B25B0013480000, A23N0005000000
(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

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(57) Abstract :
A hollow cylinder with a hexagonal pocket or a groove is used to lock the main nut in it's position using a positioning nut. Positioning nut is reverse threaded to rotate in opposite direction but slide towards the same direction as the main nut. Both nuts are locked onto their position when connected to a same surface, this principle is used to lock the main nut in position.

No. of Pages : 4 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/03/2022

(21) Application No.202241013578 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IN THE COVID-19 PANDEMIC, NEW DIGITAL TECHNOLOGY TO INVESTIGATE HUMAN SOCIAL DISTANCING

(51) International classification :H04N0007180000, G06Q0050000000, G06Q0010060000, G08B0021180000, G08B0021020000
(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

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(57) Abstract :
ABSTRACT Surveillance of CCTV cameras has been considered as an effective step in prevention of covid-19 pandemic. In this technique, people who follow the rules of social distancing, and do not, are identified but, any immediate action, with any consequence, is taken. On the inputs received, the alert could not be given. This new technology is the result of the concept of new software to solve this problem. By using this technology, we can also take action at the right time along with monitoring from CCTV cameras at many places. This technology works on alert mode So far, no software has been used to analyze the congested area. To check social distancing, there is a software app but, to maintain social distancing, there is no software. An important goal of this project is to maintain social distancing to the Indian economy and industries.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/03/2022

(21) Application No.202241013632 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Automated Inspection of Transmission Lines/Cell Tower using Virtual Reality

(51) International classification	:G06Q0010060000, G01R0031080000, G06F0017110000, G06Q0050060000, G06Q0030020000
(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

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(57) Abstract :
Transmission lines are critical components of every electric power system. Transmission lines are more prone to failure than other main components due to the fact that they are located in open air. With the help of a transmission line model, this research has attempted to address the problems of fault detection and classification, as well as fault location forecasting. The accuracy with which defects are detected and classified in a power system is critical to the system's overall stability, dependability, and uninterrupted service. The purpose of virtual reality is to bring computers and their users even closer together in their interactions. Transmission system security necessitates the development of fault assessment algorithms that are both exceedingly exact and efficient. The chore of maintaining even a lengthy transmission line in remote areas where patrolling is difficult and time-consuming becomes a considerable undertaking.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2022

(21) Application No.202241013633 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Tree plant identification using digital technology

(51) International classification :A01G0007060000, A01G0013020000, A01G0013000000, A01G0017000000, G06F0008410000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
With the help of this technique, it will be very easy to identify any type of tree, vegetation. Along with this, the brief information of that tree will also be received. Here we store information of more than one million trees and plants in digital software. This technique can also be done online with the help of computer. Through this digital technology, more than 10,00,000 trees store their information through a digital software for the use of plants. One can find out what species this tree belongs to, how this tree bears flowers, and what type of fruits are produced, information about leaves and trunk of trees, etc. We can check with the help of picture that appears on this computer.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2022

(21) Application No.202241013634 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NEW TECHNOLOGY TO PREVENT CPU OVERHEATING

(51) International classification	:H04W0024000000, G06F0013420000, H04W0024040000, H04N0005262000, G01S0007520000
(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

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(57) Abstract :
ABSTRACT There are many types of problems while working in the computer, because it is a technology, it is not possible to not face any kind of problem in the technology. When a technology works, some technical glitches definitely arise. Among the various types of technical malfunctions that occur in the computer, overheating of the CPU too quickly is also a big problem. For this, a small fan is installed in the computer, but that too does not stop the computer from heating up due to excessive workload. We define this phenomenon as a problem and consider an alternative technique to solve it

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2022

(21) Application No.202241013636 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Smart Surveillance System with Facial Recognition and Image-Processing Approach using AI

(51) International classification :G06K0009000000, G07C0009250000, G07C0009330000, A61B0003120000, H04N0007180000
(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

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(57) Abstract :
One aspect of a method and apparatus used to identify individuals to determine clearance access or surveillance is the enrollment of an image of a person's face, either voluntarily or secretly, which is later used for comparison when the person voluntarily desires clearance or is covertly detected. Individuals can be recognized or identified by the system regardless of whether they are wearing eyeglasses or making an attempt to disguise themselves. In one embodiment, the system enables an authorized operator to enrol an image of a person using a face scan to provide them admission to a restricted area later on. When the system detects an area of interest inside the scanned picture, it stores data from that region to an Artificial Intelligence-based database for eventual comparison. Enrollment data and the matching image information are then paired with a personal identification number provided to the individual. Upon presentation before the system and entry of the allotted personal identification number, a second facial scan of the subject is obtained and compared to the data from the areas of interest from the enrollment database of photos to validate the person's identity.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2022

(21) Application No.202241013637 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Modified Electrical Heat Element for Binder Based 3D Printing Devices

(51) International classification :B33Y0010000000, B33Y0070000000, B29C0064153000, A61K0009000000, B41M0003160000
(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
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(57) Abstract :
It is disclosed a binder composition for three-dimensional printing of components that is stable during storage and transit through a print head while yet being able to gel under the circumstances present in a powder bed during the printing process. The binder composition includes colloidal silica, a catalyst capable of promoting gelation of the composition when the composition's pH falls below a predetermined value and a base capable of maintaining the pH of the composition above the predetermined value at which the composition gels, all of which are present in the composition. Polyethylene glycol or another ethylene oxide-derived polymer is preferred as a catalyst, while triethanolamine is preferred as a base compound. When a binder composition comes into contact with a powder bed, the pH of the binder composition decreases by mixing an acid such as citric acid into the powder, causing the binder to gel in the powder.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/03/2022

(21) Application No.202241013658 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IOT IMPLEMENTED HEALTH CARE FRAMEWORK FOR PRELIMINARY DIAGNOSIS OF DISEASES FOR RURAL POPULATION USING CELL PHONE

(51) International classification :G16H0050200000, G06Q0050220000, G16H0010200000, A61B0005000000, G16H0010600000
(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

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(57) Abstract :
This invention analyzes IoT implemented health care framework for preliminary diagnosis of diseases for rural population using cell phone and extends the medical help to rural areas by existing urban RMP without need for patient to go to urban health care centre. The database relating case history and subscription is stored and maintained at cloud server resulting in quick planning of future medical treatment even if patients lose their health related files.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013660 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ABNORMAL TUMOR CLASSIFICATION OF MR BRAIN IMAGES USING DEEP NEURAL NETWORKS

(51) International classification	:G06K0009620000, A61B0005000000, G06T0007000000, A61B0005055000, G06N0003040000
(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

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(57) Abstract :
A cell in the brain is a smallest unit of tissue and its abnormal growth leads to brain tumor The present invention is generally related to biomedical signal processing and effective way of classifying the abnormal MRI brain images and the present invention relates generally to diagnostic systems and more specifically, it relates to a brain diagnostic system for providing a quick and accurate assessment of various brain tumors. The present invention is an effective way of classifying the abnormal MR brain images using customized10-layer fully connected deep neural network. The process starts with removing of skull region from the brain image using image processing methods and later include pseudo color transformation of the axial T1-weighted MR brain images where the gray scale images are converted into Lab color domain. Multiple regions of the brain are labeled which are been trained for the custom designed deep neural network. The classification accuracy of the proposed network attained 98%, which is superior than earlier SVM and HMM, classifier methods.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013661 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Malware Detection in Cloud Computing using Sparse Auto Encoders

(51) International classification :G06F0021560000, H04L0029060000, G06N0020000000, G06F0021550000, H04W0012120000
(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

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(57) Abstract :
The present invention relates to the design and development of an automatic attack detection and prevention system by applying machine-learning techniques to prevent attacks or threats. For detection of malicious code, the proposed BMLF is actualized in CS's identifiers, which is the primary module for conduct development and malware identification. In the proposed BMLF, each file is analyzed by behavior graphs, which comprises of numerous API calls. API calls coordinates with working framework assets. After the behavior graphs are developed, CS changes the behavioral features into binary vectors and afterwards utilizes these vectors as input to the SpAEs. SpAEs framework is the last hidden layer's data are used as the output of the added classifiers (i.e., DT, IM and SVM).The point of the proposed BMLF is to get familiar with the semantics of the high level malevolent practices and identifies malware viably.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013676 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Treatment of cancer with tetrahedral DNA nanostructures (TDN) method

(51) International classification	:B22F0001000000, B82Y0005000000, A61K0039000000, C12N0015870000, B22F0009240000
(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

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(57) Abstract :
DNA reticular nanomedicine carrying molecules is the subject of this invention, which provides a new technique for making such molecules. Structures made of a DNA tetrahedron (TDN) and nanogold are combined. The procedure is broken down as follows: Gold nanoparticles with particle sizes of 4nm were prepared, and DNA TDN and gold nanoparticles were combined to form the DNA TDN structure. The DNA TDN used in the innovation is precise, switchable in size and property, and very stable. The innovation uses DNA and nanogold particles to create a huge reticular structure by connecting the DNA TDN. It is hoped that the medicine-carrying molecule would be extensively used for tumor research and treatment since it primarily uses DNA as raw material and hence is safe for human bodies.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013681 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGNING OF SUPER CAPACITORS USING NANO ELECTRONICS FOR ELECTRICAL DEVICES

(51) International classification :H02J0007340000, B82Y0040000000, H01G0011360000, H01G0011840000, H01G0011260000
(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

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(57) Abstract :
Designing of super capacitors using nano electronics for electrical devices is the prosed invention. The invention focuses on designing an efficient super capacitor based on nano electronics. The invention will revolutionize the industry of super capacitors through the integration with nano materials.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013686 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NANO FABRICATION OF NANOPARTICLES TO SOLAR CELLS FOR MAXIMUM ABSORPTION OF SOLAR ENERGY

(51) International classification :H01L0031054000, H02J0007350000, H01L0031021600, H01L0031180000, H02S0040440000
(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
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(57) Abstract :
Nano fabrication of nanoparticles to solar cells for maximum absorption of solar energy is the proposed invention. The invention focuses on using the techniques of nano fabrication for fabricating the nanoparticle thin film layer on the solar panels' substrate layer. The invention will revolutionize the solar cell and solar energy utilization industry.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013687 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : THIN FILM PRINTING OF SOLAR CELLS WITH NANOPARTICLES FOR EFFICIENCY IN PERFORMANCE OF UTILIZATION OF SOLAR ENERGY

(51) International classification :H02J0003380000, H01L0031048000, F24S0030425000, C08J0005180000, H02J0007350000
(86) International Application No :PCT//
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(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Thin film printing of solar cells with nanoparticles for efficiency in performance of utilization of solar energy is the proposed invention. The invention aims at implementing techniques of thin film printing of solar cells on solar panels for increasing the efficacy of utilization of renewable energy resource. The proposed invention is also designed to increase the absorption capacity of solar energy.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013747 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT and Cloud based Smart Agriculture device to Detect Flames using WSN and Image Processing Techniques

(51) International classification	:G06T0007000000, A01G0025160000, H04W0004380000, B67D0001080000, H04L0029080000
(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

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(57) Abstract :
IoT and Cloud based Smart Agriculture device to Detect Flames using WSN and Image Processing Techniques Abstract: The Internet of Things is advancing at a far faster rate than in the past. We examined how to manage digital images and how to harness the Internet of Things in tandem in this study. Image processing and feature extraction techniques have been used to identify individuals who have been harmed in agricultural areas using an automated manner. Python is used to develop programmes that run on the Raspberry Pi. One of its key roles is to act as a coordinator for the system. This method is extremely advantageous for farms with a large amount of land. In the case of a fire, wireless sensors and cameras make it easier to detect and evacuate crops.

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(21) Application No.202241013748 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : The effects on the financial and economic status of the country in Covid pandemic & is damages on human health

(51) International classification :G06Q0050220000, G06Q0010060000, G06Q0030020000, G16H0050800000, G16H0050200000
(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

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(57) Abstract :
The effects on the financial and economic status of the country in Covid pandemic & is damages on human health Abstract: The enhanced chi-square goodness of fit for the COVID-19 pandemic scenario is developed, and the proposed method is used to assess the increased testing rates in India and significant improvement in the COVID-19 medical sector. India has a population of approximately 1.39 billion people and is extremely densely inhabited in contrast to other countries. The current male population of 51.6 percent and the male population of 48.4 percent in areas with an overall low economic status have all posed significant challenges to India's first campaign against the COVID-19 hotspot; the scenario estimates the root mean square error and mean absolute error of the current pandemic scenario in India in order to identify the most appropriate approaches for trend analysis forecasting. On the basis of the rate of patients discharged and customer feedback on service, we describe a machine-learning strategy for selecting a hospital in this work. In addition, it is capable of determining if a given patient (who is either already sick or thought to be infected) has a higher chance of surviving than of dying, or the opposite. Our historical data, which includes medical history and demographic data, as well as COVID-19-related information, was used to train this algorithm. On the basis of our findings, we demonstrate that the suggested method can accurately identify high-risk patients at each of the four clinical stages indicated, allowing for better hospital capacity planning and more prompt treatment. Aside from this, we demonstrate that our method may be expanded to yield optimal estimators for hypothesis-testing techniques that are extensively employed in biological and medical statistics research. Considering the present epidemic, we feel that our work could be useful in supporting medical professionals with real-time assessments in order to determine the most appropriate health-care interventions. In the aftermath of the Corona virus, our economy has grown. People began to abandon traditional ways of communication in favour of digital media. It's heartening to see this. They have the potential to grow as a result of the demand placed on them by their customers. Both the provider and the customer gain from a more personal and personalised relationship. Workers and entrepreneurs who can work from home have the potential to significantly alter economic power. If they apply this strategy, they might be able to make it such that everyone can work and make money at the same time. It is critical to be adaptable and flexible when dealing with a pandemic. As a result, a crisis might be transformed into a chance to improve things. It is possible to learn a lot about how to stop a pandemic from spreading during an outbreak, such as how to organise clinical trials or how to test vaccines. The global pandemic of COVID-19 is a frightening new occurrence. This outbreak could have been better understood if additional research had been undertaken in this region. The following research articles were published during the pandemic and explore a novel field of study.

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(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013749 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT, AI, ML based smart class room for school level education and for effective human resource utilization

(51) International classification :G06Q0050200000, G06Q0010100000, G07C0001100000, G09B0007000000, G09B0007020000
(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

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(57) Abstract :
IoT, AI, ML based smart class room for school level education and for effective human resource utilization Abstract: As demand for higher education increases, campuses are being pressed to make better use of their land. Enrollment appears to be increasing, while attendance appears to be falling, as a result of students' time restrictions and the ease with which online courses can be taken. Students who are absent from class can contribute to a university campus's lack of classroom space. This report explains our efforts to overcome this obstacle. Internet of Things sensors installed in classrooms monitor real-time usage, and artificial intelligence is used to forecast the number of students expected to attend each lesson. Classrooms are allotted to courses efficiently, minimising waste. To begin, the cost, accuracy, privacy, and deployment/operations of numerous Internet of Things sensing methods for evaluating whether a class is filled are examined. Following that, we'll examine a cross-sectional study. Over the course of two sessions, we collect and sanitise live occupancy data from around 250 courses. As part of our second contribution, we analyse this data to ascertain attendance trends, specifically which lectures and tests have been cancelled. This information will be made available to the entire university community. We can anticipate how many students will attend class in the future with an RMSE error of 0.16 by using artificial intelligence algorithms based on real-world data. Finally, rather than utilising enrollment estimations, the optimal strategy for assigning classes to rooms was determined using attendance predictions. This resulted in a 10% decrease in lodging fees while keeping an extremely minimal risk of overflowing rooms.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013750 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Java and .Net Software based effective learn management system for rapid growth of an organization

(51) International classification :G06Q0050200000, G09B0005000000, G09B0019000000, G09B0007000000, G09B0007020000
(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

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(57) Abstract :
Java and .Net Software based effective learn management system for rapid growth of an organization. Abstract: The emergence of the World Wide Web and the Internet has had a negative impact on how people learn. Computer-aided learning, which is now web-based learning, has had a negative impact on how people learn. Web-based learning makes learning easier because you don't have to be in the same room as a real person. Web-based learning allows you to learn from anywhere, at any time, and on any computer. The first programming class will make use of a learning management system designed specifically for this purpose. Two of the three learning activities in the programming course are online programming and tutoring. This is to ensure that the pupils' requirements are satisfied. There are many Java server pages (JSPs) accessible for students to learn from and apply their new abilities in this session. Mag prefers that pupils learn by doing and by looking at the work of others. Online coaching is used to help students learn in addition to in-person education. By utilising online Java programming, the system is able to provide students with a more efficient and simple approach to learn. This piece of text discusses Mag's technological and pedagogical ambitions, as well as its design and architectural principles. - A Learning Management System (LMS) is increasingly being utilised to assist people in learning and training more effectively. It functions as a virtual classroom, providing instructors, students, and staff with access to all available resources and learning materials on a single platform. This makes learning easier for them. Some of the world's greatest colleges are now using Learning Management Systems to speed up the process of disseminating information. This study is attempting to determine how Learning Management Systems are currently and in the future employed (LMS). The study's purpose is to conduct a systematic review of the literature.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013751 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Cloud computing technology based automated Pre –Screening tool for staff requirement (HR Department) in an Organization

(51) International classification :G06Q0010100000, G06Q0010060000, G06F0016930000, G06K0009620000, G06Q0040000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :
Cloud computing technology based automated Pre –Screening tool for staff requirement (HR Department) in an Organization. Abstract: Why not leverage cutting-edge technology to automate some of these time-consuming and mundane tasks As a result, human resource workers can concentrate their time and attention to other vital tasks. This is an outstanding use of this technology. Technology is becoming an increasingly integral part of both our professional and personal lives. This means that the most fundamental yet crucial transactions of the business are handled by a department dedicated to continuous technological advancement. This is unsurprising. Find qualified staff, train them, enter their information into the payroll system, and keep it current. All aspects of the position include scheduling staff time off, managing shifts, and aiding staff with paperwork. Human Resources is responsible for a great deal of work, which can be challenging. Recruiters are responsible for a variety of tasks; including reports, job fair appearances, and employee training. While the human resources department is responsible for a variety of activities, it is clear that the majority of them require substantial documentation and manual labor.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013752 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT based Detection and Prevention of Malicious Attacks on Phase-Shifter- Control in Power Systems using Machine Learning techniques

(51) International classification :H04L0029060000, H04L0012400000, H02J0003000000, G06N0020000000, H02J0003180000
(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
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(57) Abstract :
IoT based Detection and Prevention of Malicious Attacks on Phase-Shifter- Control in Power Systems using Machine Learning techniques Abstract: Phase shifters are used in power systems to modify the flow of energy (sometimes referred to as phase shifting transformers). They are used in this manner to avoid overloading transmission lines and to manage cross-network power flows in order to meet contractual obligations. These phase shift directives are transmitted over SCADA networks when a smart/automated grid is operating. Due to the ease with which hackers can obtain access to this system, there are a plethora of stealthy cyber-attacks. Phase shift directives may result in the shutdown of critical transmission lines. They may also incur financial losses if they prohibit cross-network transactions. Despite its relevance, little emphasis has been paid to defending it from cyber threats in the literature. Prior to this study, no wild animal, even the most secretive, had ever been thoroughly examined (which beat bad data detection). It is utilised to calculate terminal voltages through the examination of indices that represent the ratios of branch or node injection currents to terminal voltages. When these indices are used to locate items, the mathematics demonstrates that they are right. These indices are necessary for the proposed strategy to be implemented. According to testing on phase shifters connected to the IEEE 118-bus system, the proposed technique is reliable, computationally light, and simple to use. The method described here can be employed as long as you are using a networking technology capable of doing power system analysis.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013862 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A DEDICATED WIRELESS SENSOR NETWORK ARCHITECTURE FOR SMART CITY ENVIRONMENT

(51) International classification	:H04W0084180000, H04L0029080000, G06Q0050260000, H04W0004700000, H04W0004380000
(86) International Application No Filing Date	:PCT// :01/01/1900
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(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A DEDICATED WIRELESS SENSOR NETWORK ARCHITECTURE FOR SMART CITY ENVIRONMENT ABSTRACT OF THE INVENTION Smart city provides smart and comfortable solutions to the people and environment in economy and technical aspects which could enhance the quality of life for citizens. Though modern equipment, devices and sensors has been used in smart cities, still there is gap in applications aspects. The structure has been evolved based on the necessity of the particular locations. Interconnections of the various components at the smart city is vital part and that too should be done in an appropriate devices, sensors and networks. Conservation of water should be more focus on smart city concept. The present invention utilizes the wireless sensor network dedicatedly for conserve the water utilities. This invention comprises of the weather monitoring stations, cloud database, Sewage Treatment Plants (STPs) and mobile phone. The Weather Monitoring Stations (WMS) has been installed at the suitable zones at the smart city. The wireless sensors have been adopted at weather monitoring stations. Sewage Treatment Plants (STPs), WMS and building's gardening area and these sensors are systematically connected through the appropriate protocols. The WMS transfer the data periodically to the cloud from where it is transferred to the local control unit. The controlled decision has been taken at cloud based on the prefixed parameters and its associated conditions. Therefore, the controlled signal is sends to the STP and gardening control unit. Through the implementation of dedicated wireless sensor network architecture, the smart city becomes more energy optimizing environment in the aspects of effective water conservation.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013876 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Method and Process to improved Quality of Sign Wave Signal and Controlled Algorithm.

(51) International classification :G05B0011420000, H02J0003360000, H03D0007000000, G01N0033580000, C22C0005040000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT Our Invention Method and Process to improved Quality of Sign Wave Signal and Controlled Algorithm is an invention advances an ideal fast reaction variable design control with a solitary stage sine-wave inverter application, which keeps symphonious contortion as low as conceivable under different states of stacking. Our proposed arrangement gives an improvement in engineering in which a fast reaction variable construction control (QRVSC) is joined with a talk advancement (BSO) calculation. Despite the characteristic versatility of an average VSC concerning changes in plant boundaries and stacking interruptions, the framework state union towards zero ordinarily continues at a vastly long-term asymptotically, and jabbering conduct habitually happens. The QRVSC for guaranteeing rapid restricted time intermingling with the framework state to the adjusting point is formulated, while the BSO will be utilized to fittingly direct the parametric additions in the QRVSC for the disposal of prattling peculiarities. From the combine of both a QRVSC as one with a BSO, a low all out consonant bending (THD) as well as a high powerful reaction across various sorts of stacking is created by a shut circle inverter. The proposed arrangement is carried out on a practicable single-stage sine-wave inverter heavily influenced by a TI DSP (Texas Instruments Digital Signal Processor). It has tentatively shown the re-enactment discoveries as well as the numerical hypothetical investigation, showing that both fast transient response too as steady execution could be acquired. The proposed arrangement effectively restrains voltage sounds in consistence with IEEE 519-2014's tough norm of restricting THD values to under 5.7%.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013877 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Air Pollution Monitoring and Notification algorithm Using IoT- Based.

(51) International classification :G01N0033000000, B01D0053020000, G06N0020000000, G08B0021120000, G06Q0050260000
(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

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(57) Abstract :
ABSTRACT Our InventionAn Air Pollution Monitoring and Notification algorithm Using IoT- Based is a Great nature of air is expected to keep up with great medical issue among the living climate. Unsafe gases and air contamination can be recognized in encompassing regions. Boundary like IAQI is estimated from the proposed framework gives a productive method of recognition of air quality. Proposed framework has ESP8266 for associating with IOT stage to pass the data in regards to the poisons to the faculty. Taking care of oneself is improved by the approach to identifying the poisons of the climate. Changes in breathing and pulse, as well as equilibrium issues, deadness, and obviousness, can happen in genuine cases. For methane, 50,000ppm ie.5% of blending in air is risky level and it makes exceptionally quick impact to life and demise. The degree of gas in the air is detected by the sensors; caution can send if there should be an occurrence of any irregularity when detected esteem are passed the boundary level.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013890 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRIORITY GENERATOR AND THE METHOD THEREOF BY IMPLEMENTING ARTIFICIAL INTELLIGENCE FOR DIAGNOSING PATIENTS IN HOSPITALS

(51) International classification	:G16H0050200000, G06Q0050220000, G16H0015000000, G06F0017180000, G08B0003100000
(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
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(57) Abstract :
PRIORITY GENERATOR AND THE METHOD THEREOF BY IMPLEMENTING ARTIFICIAL INTELLIGENCE FOR DIAGNOSING PATIENTS IN HOSPITALS ABSTRACT OF THE INVENTION When patients in a critical stage, it is tedious to diagnose them instantly through the testing centres. It mostly happened at the multispecialty hospitals where many people are admitted for the treatment especially during emergency condition. However, the diagnosing centres are located at the different floors and places of their convenient functions and due to which there is a complexity in accessing each centre and unavoidable delays; and it will result adverse effect on the patient life. The present invention concern over the above said issue and proposes the system and the method to overcome the same. When a patient with critical stage admitted at the hospital, the prescription of diagnostic tests recommended by the medical practitioner then the entry has been made. Once the entry has been made regarding the diagnostic tests then the appropriate diagnostic centres informed automatically through alerting system comprises of buzzers and display. Apart, the token has been generated based on the priority basis which takes the ground on the critical level of the patients. Therefore, most critical patients getting attention with most priority. Hence the patient while reach the diagnostic centre he/she will be attended immediately and the process of diagnosing completed as soon as possible and shifted them to the next process. Hence the invention avoids the delay in diagnosing the patients therefore the swift medical care ensured and safeguard them.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013892 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN ALERT SYSTEM TO PREVENT THEFTS

(51) International classification :G07C0009370000, A45C0013180000, E05G0001000000, H04N0019610000, G08B0003100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The proposed system will involve the use of sensors like Motion, Alarm, Touch, and GPS. This proposed system will focus on theft prevention when the residents of the house are not in the house it will be quite insecure for their belongings, asserts, jewels etc., which are present in the locker. This kind of scenario is favorable for thief to steal the valuables which are present in the locker. So in order to avoid this kind of situation the proposed system consists of sensors will alert the residents and as well as the nearby residents. The touch sensor is for finger print purpose, a family consists of four or five members can add their finger prints so that only those family members has the privilege to access that locker whereas outsiders can 't, if an unauthorized persons touches the locker or tries to open the locker, it doesn't recognize their finger print and as a result it gives notifications to the residents and thereby saving the belongings. Fig 1.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013893 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FUEL EFFICIENCY ENHANCEMENT IN AN INTERNAL COMBUSTION ENGINE- A DEVICE AND A METHOD

(51) International classification :F02M0027040000, F02B0029040000, F02D0041100000, F02B0001040000, F01L0007020000
(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

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(57) Abstract :
FUEL EFFICIENCY ENHANCEMENT IN AN INTERNAL COMBUSTION ENGINE- A DEVICE AND A METHOD ABSTRACT OF THE INVENTION Typically, the internal combustion engine's efficiency is around 30-45%. Most part of the loss is in the form of wasted heat energy. To make effective use of this waste heat many components and systems has been proposed. However, these systems cannot improve the combustion rate to adequate level. This problem has been addressed through the present invention. The aim of the invention is to develop a device and a method for fuel efficiency enhancement in an internal combustion engine. This invention comprising of internal combustion engine and efficiency enhancer module. The efficiency enhancer module further comprises of Peltier coolant unit, air coolant fixture and fuel-air mixture tank. The Peltier coolant unit has the Peltier module and it is appropriately fixed at the IC engine to recover the heat from it. The fuel- air mixture tank is used to mix the fuel and the air in to the required level and stores it. When the fresh air is entered into the air coolant fixture it gets cooled to certain required extent. This chilled air contains more oxygen for the better combustion. This chilled air transmitted to the fuel-air mixture tank from where it is given to the IC engine. Hence the efficiency and performance of the IC engine has been improved drastically. This entire process ensures the efficient sparking, burning and combustion at the IC engine and contribute for the efficiency enhancement.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013895 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT based Water Quality Surveillance and Monitoring System for large Aquatic Area

(51) International classification	:G06Q0010100000, C02F0003320000, G01N0033180000, F16K0031080000, C12N0009100000
(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

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(57) Abstract :
Water quality of Wetlands are threatened by untreated industry outlet climate change, poor agricultural practices, etc. which results in an oversupply of contaminants. The need to come up with better ways to check water quality regularly through new technology which involves lesser human intervention and much more cost efficient than the existing methods.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/03/2022

(21) Application No.202241013917 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AI and ML based smart facial recognition security system

(51) International classification :G06K0009000000, G07C0009250000, G08B0015000000, A61B0005000000, G08B0021220000
(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

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(57) Abstract :
The proposed invention related to the device can distinguish or identify persons even if they are wearing eyeglasses or other disguises. For example, an authorized operator may use a face scan to register an image of a person for eventual clearance access. Data from an area of interest inside a scanned picture is recorded to a database for comparison later on, and the system records the camera's location and takes an image. As part of the enrollment process, their identification number is linked to their enrollment data. As soon as a person presents themselves to the system and enters their allocated personal identification number, a second face scan is done to compare with data from the areas of interest in the enrollment database of photos to verify the individuals identity. Alternatively, the system operator may insert a covertly captured photograph of a person for subsequent monitoring and identification. Surveillance mode involves the system automatically detecting the presence of a person, analyzing the image, positioning the camera, and taking a picture to see whether the person is already registered in the database.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241013923 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Artificial Intelligence and Machine learning based plant leaf disease classification for crop yield enhancement

(51) International classification :G06N0003040000, G06K0009620000, G06T0007000000, G06N0003080000, 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

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(57) Abstract :
A new method of identifying diseases of plant leaf species is now being made public. Plant-image-based parameter input interface module. The data that the interface module gets is enhanced by a module that is connected to it. A training and validation module is used to classify and organize at least one plant image. This kind of deep convolutional network (CNN) has at least three convolutional layers in a detection module. Using max-pooling, this network is able to get the image's visual representation. The rectified linear activation function adjusts the resolution of each image when applied to the output of each convolutional layer and fully connected layer, which is then transferred to the next layer in a cascading pattern. As a result, with each successive layer, a disease in the leaf picture becomes more pronounced.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241013925 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Habara Plant Fiber Reinforced Composite Material

(51) International classification :C08J0005040000, C08K0007020000, D04H0001426600, D04H0001425000, D04H0001587000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The invention discloses a natural fiber extracted from a plant called habara and the composite material manufactured from that fiber. The requirement of circular manufacturing and environment sustainability has triggered researchers to explore natural fibers that can be extracted from different sources. The current invention is about extraction of natural fiber from a plant called habara. The habara plant fibers can be extracted by means of water based retting process. In which the primary layers of the fibers are softened thereby degradation of fiber cellulose occurs. The habara plant fibers cannot be used directly as reinforcement material with polymer matrices. They have to undergo several surface modifications processes to make it suitable for reinforcement with polymer matrices. The surface modified fiber can be used as reinforcement with polymer matrices directly.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241013926 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN IOT-BASED ENVIRONMENT MONITORING SYSTEM AND METHOD THEREOF

(51) International classification :G01N0015020000, H04L0029080000, G01N0015060000, B03C0003120000, B03C0003470000
(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

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(57) Abstract :
The present invention discloses an IoT-based Environment monitoring system and method thereof. The system includes, but not limited to, a plurality of sensors for sensing airborne particles within a predetermined diameter placed in an IoT environment through a plurality of implantable electronic units; a pollution detector provided with a machine learning interface capable of deriving data relating to the airborne particles from the varying measurement signal, as a result of the applied variation in the concentration level, and data is obtained from the resulting variation of the measurement signal which relate to the length concentration and number concentration of airborne particles per unit volume; a microcontroller for processing particle sensing data is provided capable of producing a measurement signal varying in dependence of the variation between the first concentration level and the second concentration level and further, the plurality of sensors is providing its output to the microcontroller placed in an IoT network for environment monitoring. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 8

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(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241013930 A
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(54) Title of the invention : Vision Based Drone Obstacle Avoidance by Deep Reinforcement Learning

(51) International classification :G05D0001020000, G06T0007136000, G01C0021000000, G06T0007120000, 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

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(57) Abstract :
In machine vision and intelligent control, the invention offers a monocular vision approach for identifying and locating the boundary of a road, which applies to both public and private roads. To recognize the boundary of a road, two ways may be employed in either visual navigation or cognitive control of a robot. These approaches are intended for a continuous road with various edge features. According to the innovation, the road's margin may be determined by employing either a color-based approach or a threshold value dividing technique to determine its location. Using an image that has been inverted perspective projected, it is feasible to determine the perpendicular distance and robot course angle between the robot's present location and the edge of the road. A picture that looks to be a top view but is a front view is produced as a consequence, which is then inverted. This system is straightforward to implement because of its excellent anti-interference performance, instantaneous response time, and appropriateness for semi-structured and unstructured highways.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241013944 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : P2P Network System for Cloud Storage based on Blockchain under Big Data Environment

(51) International classification :H04L0029080000, H04L0029060000, G06F0021620000, H04L0009320000, G06F0021640000
(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
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(57) Abstract :
[09] The present invention realizes by following technical scheme: with P2P network cloud storage method based on blockchain under a big data environment, the data is divided into blocks, encrypted and serially numbered, and uploaded to the computer with free storage space in the entire P2P network, with block As a transaction mechanism, the chain stores the encrypted file blocks randomly in the computers around the users who need storage space. Finally, the Merkle hash tree is used in the network to verify the integrity of all transaction information and detect whether it is not being tampered with, while the encrypted file blocks are randomly stored in the computers around the user who needs storage space, the relevant information of the stored file blocks, rather than the file blocks themselves, is stored in the blockchain. In a P2P network, a computer with free storage space can divide its own local disk into a fixed-sized part and lease it to users who need storage space. The relevant information of the file block includes a Uniform Resource Locator (URL), a file hash, and user information. When the storage file needs to be retrieved, the transaction data in the blockchain can be traced directly, and the corresponding private key is used to decrypt the transaction information only belonging to the user, so as to obtain the storage location of the user's own file block, and then use the corresponding private key to decrypt the transaction information belonging to the user. Download the file chunks and decrypt them with the private key, splicing them into a complete file. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241013945 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT Driven Water Quality Monitoring System and removal of Foul Smell from Wastewater

(51) International classification :G01N0033180000, H04W0084180000, H04L0009320000, G06Q0050060000, 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

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(57) Abstract :
Due to the combined effects of rising population, pollution, and climate change, safe water is becoming a valuable resource. Monitoring water quality is so critical, particularly for residential water. Laboratory-based testing methods are manual, expensive, time-consuming, and do not provide real-time feedback. Energy management, data security, and communication coverage have all been noted as flaws in recently developed systems using wireless sensor network (WSN) technology. Because of recent advancements in the Internet of Things (IoT), which can be used to construct more efficient, secure, and less expensive systems with real-time capabilities, We provide a survey that aims to summarise the current state of the art in IoT-based smart water quality monitoring systems (IoT-WQMS), with a focus on household applications. In a nutshell, this method investigates common water-quality monitoring (WQM) parameters, their safe-limits for drinking water, related smart sensors, a critical review, and ratification of contemporary IoT-WQMS using a proposed empirical metric, analysis, and discussion, and finally design recommendations for an efficient system and removal of Foul Smell from Wastewater. Without a doubt, this method will aid in the development of smart homes, offices, and cities.

No. of Pages : 5 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241013953 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CONTENT RECOMMENDATION SYSTEM FOR A MEDIA DEVICE

(51) International classification	:H04N0021482000, H04N0021466000, G06Q0030020000, H04N0021250000, G06F0016280000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
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(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A media content recommendation system (100) and associated method of providing accurate content recommendations to an individual or a group of users includes a media player (204), which captures an interactive action performed by a user (112A) during playback of a selected media content. An audio sensor (224) detects ambient audio during playback of the selected media content. An event identification system (222) identifies occurrence of an event within a particular time period prior to a negative interactive action performed by the user (112A). A recommendation subsystem (110) assigns a first or second weightage to the negative interactive action based on identification of occurrence of the event within the particular time period. Further, the recommendation subsystem (110) determines a rating for a particular category associated with the selected media content, and recommends a list of media content belonging to the particular category when the rating is above a particular threshold.

No. of Pages : 68 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241014022 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SMART BABYSIT MONITORING SYSTEM

(51) International classification :H04N0007180000, G08B0025100000, G06Q0090000000, H04M0001725000, B62B0009000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
SMART BABYSIT MONITORING SYSTEM ABSTRACT OF THE INVENTION Even though our country is not the origin for the concept of baby-sitting, this culture is emerging our country slowly into practices in recent times. The baby sitting is a concept of temporary caring of children. These kinds of baby sit jobs are performed by youngster in foreign country, due to their living style. Despite, the percentage of working women who are economically active in the country is far lower than the global average. It is noticeable that female ratio is increasing day by day and they are equally destined in working environments to male ratio. Unfortunately, this raising ratio is simultaneously cut down on other side due to child care issues by a woman after delivery. For women who are both working and making home are in need of some assistance to look after their kids. For this temporary caring of children, they appoint a sitter. This invention is aimed to monitoring from working environment or remote places on their child. Inspite being an assistant employed to take care of children, also an addition facility of have an eye on the child will help any working women to do their job in peace. Therefore, a system employed with a camera, speaker and microphone is employed in the target area. These are controlled by a single board of embedded computer RASPBERRY Pi. This Single board is connected to mobile on remote area over an extended-on board module of GSM/GPRS, enabling the user to make/receive calls, texts and data files. Also, they can use the mobile application to make pacify effect to the child when they are need. Thus, this invention of developing a smart system to baby sit and a monitoring system will be a helpful for all the working women who are far away for their work with ensuring safety and security of their kids.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241014042 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AI enabled Online Interview/Counselling/Pitching software platform

(51) International classification	:G06Q0010100000, G09B0007000000, G06N0003000000, G09B0007040000, H04N0005222000
(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

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(57) Abstract :
The present invention provides a System, method and Soft ware for individuals to experience an interview Simulation and develop career, interview and pitching skills. It allows individuals to experience a full interview Simulation, including pre- and post-interview Stages. The invention allows individuals to communicate with a computer generated interviewer character. It simulates a discussion by Speaking to the individual and asking the individual job-related questions, and displays output on the computer terminal and/or digitizes Statements into Speech. The individual responds to the Statements by typing replies and/or speaking replies into a device Such as a microphone, Video camera or telephony device that receives and records the responses onto the System. Once the interview is complete, the individual can review all his/her responses via a customized computer interface. The invention allows organizations to Screen potential employees by conducting initial Screening interviews. It allows individuals to self-screen by seeing which jobs they would be interested in and by Submitting pre-Screened data to employers. Finally, it allows individuals to train for interviews by going on realistic practice job interviews. The invention is able to provide detailed analysis and recommendations regarding the practice interviews to users, which assists them in developing career and interview skills.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241014058 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A Shapley Value-based game theory application for evaluating workload distribution

(51) International classification :G06Q0010060000, G06F0009500000, G06Q0010100000, A61F0013150000, G06F0016510000
(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

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(57) Abstract :
Composite Web Services A Shapley Value-based game theory application for evaluating workload distribution face various additional and 5 significant network issues when running in a scattered context. Response speed is a major problem for these systems, hence components of the composite web services must be spread. Game theory and a classical workflow model are used to estimate the load sharing among online services. Separate online services can better share their workloads, 10 according to a simulation model's results, which is positive. To help with capacity planning in a multi-network setting, a comprehensive solution to web service cooperation has been discovered.

No. of Pages : 26 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241014063 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR OPERATION OF VIRTUAL MACHINE

(51) International classification	:G06F0009455000, G06F0021560000, G06F0021570000, G02B0027000000, G06F0021530000
(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

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(57) Abstract :
The present disclosure provides a system (100) and method (300) for operation of a virtual machine (110). The method (300) includes detecting (302), by a computing device (200) communicably coupled to the virtual machine (110), upon execution of an operating system (120) in the virtual machine (110), presence of a malware (130). The method (300) further includes insulating (304), by the computing device (200), the virtual machine (110) from the malware (130) to prevent the malware (130) from making changes to the virtual machine (110). The method (300) further includes allowing (306), by the computing device (200), the malware (130) to execute its operations.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241014134 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : An Investigation of the Physical Properties of a Transcuelent Cemented Soil

(51) International classification :G01N0003240000, G01N0033240000, C09K0017000000, E02D0001020000, G09B0023400000
(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
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(57) Abstract :
Abstract The physical model testing method based on transparent soils is becoming increasingly relevant in the geotechnical engineering investigation of deformation and failure mechanisms. The technological evolution relies on creating translucent soils with excellent transparency, consistent physical and mechanical qualities, and mimicking varied natural rocks and soils. A translucent solidified soil has been developed for the shortage of transparent materials. The translucent cemented soil is composed of fused quartz skeleton particles, nanoscale hydrophobic Nano-silica type powder for the cement, and a mixture of n-dodecanal with #15 white apply oil for the pore solution. Cement concentration, particle size, and skeleton gradation can all be altered to produce transparent cement soils with comparable refractive index and different strength properties. Triaxle shear experiments were undertaken to investigate the soil's strength characteristics, such as cement concentration and skeletal gradation, in 11 controlled experiments. First, the shear strength varies depending on the particle size, categorizing of the fused quartz and its content and percentage of silica powder. But it is mainly the low quality of quartz grading and silica powder's excessive content that lowers the shear strength overall. In physical model studies, transparent materials made of natural clays and softer rocks can be selected and created by altering the preparation formulas to produce cohesions ranging from five to 65 kPa with friction angles between 25° and 44°.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241014136 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SMART VEHICLE RUNNING BY RENEWABLE ENERGY SOURCES.

(51) International classification :H02K0001270000, F03D0009320000, G05D0001020000, B60K0016000000, B62D0035000000
(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
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(57) Abstract :
The smart vehicle running by renewable energy sources relates to the vehicle run by renewable energy. More particularly present invention relates to the electric vehicles as well as LMV and road vehicles and re-charging their batteries while driving. More specifically, the present application relates to the use of renewable for generating electrical power for electric vehicles and addresses the need for additional power required in autonomously driven of vehicles. Also the hybrid electricity device in addition comprises: a riding country records acquisition tool configured to acquire cutting-edge riding kingdom statistics of the vehicle, the present day driving state statistics of the vehicle includes driving force aim statistics, avenue condition facts, modern-day position facts, and electricity and torque request statistics and the hybrid power device in addition comprises: entire automobile manipulate gadget configured to govern the conventional energy device, the motor using device and utilize whenever required and increasing efficiency of vehicle. [Figure 1]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014150 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MACHINE LEARNING BASED SYSTEM TO TRANSLATE TEXT TO SIGN LANGUAGE USING NATURAL LANGUAGE PROCESSING TO ASSIST DEAF AND HEARING IMPAIRED PEOPLE

(51) International classification	:G06N0003040000, G06K0009000000, G09B0021000000, G06F0003010000, G06K0009620000
(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

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(57) Abstract :
It is learnt from the literature that there are nearly 70 million deaf people around the globe (according to the data from World Federation of the Deaf (WFD)). Sign Language serves as one of the primary ways of communication to the deaf people and people suffering from hearing impairment. According to linguistics, sign language has characteristics such as phonology, syntax and morphology just similar to other languages. In general, sign is an intersection of three units namely hand position, hand movement and shape of the hand. Proposed is a machine learning based system to translate sign language using Natural Language Processing. Gathered data is trained using Convolution Neural Networks to map the text to the hand movements. Convolution Neural Networks are a capable tool to capture numerous photos, learn and classify according to the category and translate the same using Natural Language Processing. It performs mapping of alphabets to 26 hand signals including delete and space sign. Featured maps are subject to alternate convolution and sub sampling to map to a fully connected output. The trained data from pooling layers are filtered and are connected to corresponding signs in sign language.

No. of Pages : 13 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014161 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SYSTEM TO MANAGE THE SEGREGATION AND CATEGORIZATION OF BOOKS USING DEEP LEARNING ASPECTS

(51) International classification :G06N0003080000, C12N0015100000, G06N0003040000, G06K0009620000, E21B0043160000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Artificial intelligence-based system to manage the segregation and categorization of books using deep learning aspects is the proposed invention. The proposed invention focuses on segregating and categorizing the books using primary attributes. The proposed invention focuses on making the organization of books easier and also helps the librarian or reader to search the book easier.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014162 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SYSTEM TO PREDICT THE OCCURRENCE OF CRACKS ON WALLS BY ANALYZING THE CONCRETER MIXTURE USING MACHINE LEARNING TECHNIQUES

(51) International classification :G06N0020000000, G06N0003040000, G06N0003080000, G06Q0010100000, G06F0016953500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
A system to predict the occurrence of cracks on walls by analyzing the concreter mixture using machine learning techniques is the proposed invention. The invention focuses on implementing a system using machine learning module. The proposed invention will help to predict the occurrences of cracks on walls based on their concrete mix ratio.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014171 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : STRUCTURAL BEHAVIOUR OF NATURAL FIBER REINFORCED CONCRETE SLAB PANEL

(51) International classification :G01N0003080000, G01N0003200000, D21H0027380000, A61B0005103000, D21F0001660000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
To concentrate on the basic behavior of natural fiber supported concrete, three sort of rigidity test in particular split tensile, flexural strength and biaxial weakness flexure strength were directed. Examination of these three somewhat tensile, their break design and the manner in which they comes up short were be broke down and examined. Results showed that the flexural strength value of the two sort of biaxial tests are higher than the uniaxial test result (ASTM C-1550 have 41.26 % higher than ASTM C-78 and 32.13 % higher than ASTM C-496). The rigidity as estimated by ASTM C-1550-02 is marginally higher than the worth of the flexural elasticity as estimated by the biaxial flexure test (21.54%). The lines of the break design do not show clear full scale break breaks prior to arriving at the pinnacle load. As noticed, there are two pinnacle load values found were the one happened at the principal broke, after that the heap pressure bend decline for some time and following a couple of moments the heap increment again to a worth more modest than the principal top burden value. This is on the grounds that at the hour of the first breaking in quite a while balance, the heap that can be kept up with by the substantial example had arrived at its greatest yet after that the heap increment again on the grounds that the pressure has been moved to the fiber, so the pressure rises again until the fiber sever. This shows that the fiber plays a significant job in holding and rearranged the tensile load.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014191 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NOVEL THERMOGRAPHIC SCREENING WEARABLE GOGGLES

(51) International classification :A61B0005010000, A61K0047120000, G01J0005020000, G01J0005000000, A61B0005000000
(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

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(57) Abstract :
Among the screening technologies available, temperature screening serves as the primary base. There are ample devices for measuring temperature of human body. But most of them are contact based measuring methods. Only a few methods are there for non-contact measuring. We have developed a unique and innovative system to swiftly measure temperature of more than 100 people per minute. It is highly inexpensive and rapid way of screening for corona virus in densely populated areas. It comprises of an optic lens, IR Detector, processor, and goggles display where the temperature is displayed in color range indicating the severity of human body temperature. It is a compatible and handy device which can be handled by literally anyone. It eases the doctors and other healthcare workers to screen huge mass of people.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014221 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MACHINE LEARNING BASED APPROACH TO ANALYZE THE GROWTH OF MUSHROOM AS PER QUANTITY OF SEEDS

(51) International classification :G06N0020000000, G06K0009620000, H04N0019159000, G06N0003080000, G06N0003040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Machine learning based approach to analyze the growth of mushroom as per quantity of seeds is the proposed invention. The invention focuses on designing a framework that is based on machine learning to predict the quantity of yield that can be obtained from particular number of kilogram or gram of seeds. The proposed invention will also predict the quality of seed that will be used for cultivation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014262 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Design System of Medical Ultrasound Image Classification using Deep learning

(51) International classification :G06K0009620000, G06N0003040000, G06T0007000000, G06N0003080000, 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

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(57) Abstract :
In clinical practice, ultrasound (US) has become one of the most regularly used imaging modalities. It is a rapidly growing technology that offers certain benefits while also posing distinct obstacles, such as low imaging quality and considerable unpredictability. In terms of image analysis, advanced automatic US image analysis methods must be developed to aid in US diagnosis and to make such assessments more objective and accurate. Deep learning has lately risen to prominence as the most powerful machine learning technology in a variety of domains, particularly general imaging analysis and computer vision. Deep learning also has a lot of promise in terms of automating Ultrasound image analysis. Because dementia affects not all image patches taken from a single sMR image, class designations for those image patches may be unclear. A multi-instance CNN (MICNN) model for AD-related brain pathology diagnosis has been created to this purpose.The input of MICNN is a bag comprising L patches collected from L landmark points, given an input sMR picture. Multiple sub-CNN architectures are first constructed in the MICNN to learn feature representations of individual patches in the bag. The input to this design is a bag of L instances, which correspond to L brain landmark locations. For each unique sMR image, it generates patch-level representations. L parallel sub-CNN architectures are embedded with a set of 6 convolutional layers as well as 2 fully linked convolutional layers (FC)

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014319 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A FRAMEWORK OF SENSORS TO IDENTIFY THE NUTRITIONAL VALUE OF MUSHROOMS BASED ON THEIR STRUCTURE

(51) International classification	:G06K0009000000, G06K0009620000, A61K0039395000, G06K0009520000, G06F0016220000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
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(57) Abstract :
A framework of sensors to identify the nutritional value of mushrooms based on their structure is the proposed invention. The proposed invention focuses on designing and implementing a framework of sensors that will scan the mushroom for their quality based on the nutrients contents they have. The invention also uses image recognition to recognize and categorize mushrooms.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014399 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Advanced Robotic Controlled Land Vehicles

(51) International classification :B25J0009160000, G06Q0050040000, B65G0043000000, G11C0019180000, A01G0025160000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT Our Invention Advanced Robotic Controlled Land Vehicles is a increment of human requirements has pushed the advanced mechanics area to develop much more. One region that starts to blossom in automated frameworks are semi-independent or independent checking and monitoring vehicles from a good ways. The current stage is an illustration of such a framework. It will be the examination of its plan, development and activity. The administrator driving the vehicle will have video feed and extra data about the space screen. This framework could be the premise of a total robotized stage with more sensors that will cover all the more requirements. Assuming there is a distinction, it implies that the past move isn't performed as expected, so observing the rest of observing that the distance voyaged was either above or never arrived at the normal advance. Separately the subsequent stage is to deduct or add the remainder of the past development in our last advance. This outcomes each chance to address the misstep of the past development. Toward the finish of every development the relating variable that actions how much developments independently the front or back is expanded. Different orders perform developments on the servomotor that has the distance sensor. These developments are a finished pivot, a revolution from 0º to 90º or 90º to 180º. In every development calling the comparing schedule that understands values, shows and turns the engine. In all schedules the engine pivots two times to have the normal cost per level of turn. Assuming an unsatisfactory person is ship off the Arduino, the client is educated through a message send by the Arduino. The second piece of the focal circle work stops the vehicle and presentations the client the odometer information gathered.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014400 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Get in Touch (giT) is a platform that provide user's access to their account all in one place: Profile, Payments, Keys, Tickets, Reservations, Invitations, Official and private Documents, Reports, NFT's, Securities, Assets, Wallets, much more.

(51) International classification	:H04W0004800000, G06Q0020320000, G06F0016953500, H04B0005000000, H04W0004020000
(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
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(57) Abstract :
ABSTRACT [500] Our Invention Get In Touch (GiT) GiT provides users seamless experience to their identification, assets, and securities. With just a tap users can do amount transaction, access keys, share their business cards, get access to their tickets, reservations, documents much more through the mode of NFC and NFC enabled products. The platform uses NFC as the point of communication between users and provides ease of contact. Our platform users can get their personalized NFC enabled gadgets or use their phones as a medium of exchange which access all of their account data and perform based on user's preference. NFC works at 13.56MHz and has 424kbps most extreme information move rate. NFC is corresponding to Bluetooth and 802.11 with their significant distance capacities. In device imitating mode NFC gadgets can offer contactless/remote shrewd card standard. This innovation empowers advanced cells to swap conventional plastic cards to ticket, installment, and so on Sharing (divide records among telephones), administration revelation for example get data by contacting advanced cells and so on are other potential uses of NFC utilizing PDAs.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014404 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A Smart Yoga Instructor device for guiding and correcting yoga posture of a user in real-time

(51) International classification :G06K0009620000, A61B0005110000, G06K0009000000, H04N0007180000, 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

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(57) Abstract :
A SMART YOGA INSTRUCTOR DEVICE FOR GUIDING AND CORRECTING YOGA POSTURE OF A USER IN REAL-TIME
The invention provides a Smart Yoga Instructor device (100) for guiding and correcting yoga posture of a user in real-time; the device comprises an input device (101), a display device (102), an output device (103); an image capturing device (104) and a computer (105) with memory device (106). The computer is configured with pretrained model, and key points of yoga posture are extracted using Mediapipe and quadrant based correction mechanism. The device (100) performs all the operations in real time, with the response time of only 6 seconds. [Fig. 1]

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014455 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT Driven AI-Based Intelligent Streetlight Monitoring System Using Micro Controller

(51) International classification :H05B0047190000, F21S0008080000, H05B0047105000, H05B0047110000, H04L0029080000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The Internet of Things (IoT) has ushered in a new era of connection and wireless technology. The fundamental concept is to use wireless technology to connect everything. Everything can be linked through the Internet of Things by employing various sorts of sensors built for various purposes. The paper's major goal is to propose a system that allows streetlights to be automated and data from the lights to be transmitted over the internet. The lights in this smart street light system can be turned on and off automatically based on the weather conditions. To sense the external conditions, a light-dependent sensor as well as a humidity and temperature sensor are used. If the light intensity in the environment falls below or goes over a certain temperature, the street light system would automatically turn on and off. The humidity and temperature sensors are used to measure the temperature and humidity of the environment so that the roadway colour can be altered to improve visibility in certain weather situations. An artificial power source, such as solar panels, can be used to power the entire system. The installation of a wireless system to remotely control and track the energy usage of streetlights is proposed by the Smart Street Light System. This aids in the implementation of appropriate measures and the reduction of energy consumption using power conditioning and control. ON the light pole, the system must be mounted. A Microcontroller, multiple sensors, and a wireless module make up the system. The controller on the pole detects the object as well as the temperature in the area and adjusts the intensity of the LEDs accordingly. Both manually and automatically, the Smart System can be used. The control system automatically turns the streetlights on and off at the right times, changing the intensity as needed. The mart Street Light System is an intelligent Street Lighting Control System that delivers automated services using AI (Artificial Intelligence) technology.

No. of Pages : 1 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/03/2022

(21) Application No.202241014662 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A VIRTUAL REALITY BASED ROOM FOR IMPROVING HEALTH OF SELF QUARANTINE

(51) International classification :H01L0023310000, G06F0021560000, H04L0029060000, G06T0005000000, A23L0033000000
(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

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(57) Abstract :
In the year 2019, the corona virus epidemic spread in the world, and this disease killed millions of people. People suffering from this disease were 310 kept in isolation, so that this disease would not spread to anyone else. This process is called quarantine. Many people, even after being quarantined, did not survive, they all died. We define this phenomenon as a problem. If a person is to be quarantined, then his room should be based on a 315 special technique. We describe this new technique in detail, according to drawing number 1. We have studied, and got this information, if the room is not made according to the requirement, then the person in such room can become more ill. To solve this problem, we define a new type of room.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014663 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Artificial Intelligence Based Fake Product Review Monitoring System

(51) International classification :G06Q0030020000, G06Q0030000000, G06K0009000000, G06Q0099000000, G09C0005000000
(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
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(57) Abstract :
The majority of shoppers rely on product reviews before making a purchase. People may not be able to tell if a product rating or thinking they are reading is genuine or not if they are reading it while rating or reviewing the product in question. In some situations, identifying counterfeit (fake) products can be a time-consuming and perhaps risky operation, especially when dealing with medical products. Counterfeit products are easier to make and sell if a person does not thoroughly check the product's specifications. For the sake of product and company ratings, some companies display their review. This Bogus Review Monitoring technology has been implemented to discover fake reviews on the website. In addition to verifying reviews by IP address, this system subsequently categorises them into spam and non-spam reviews. Non-technical customers can use a smartphone application to scan the product and determine if it's authentic or not, according to this paper's recommendations. Detection of logos will be the primary focus (both image and textual representation).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/03/2022

(21) Application No.202241014670 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A HOLDER STRUCTURE FOR BATTERY ASSEMBLY

(51) International classification :H01M0002100000, F21Y0115100000, F16J0015080000, H01M0010613000, H01M0002020000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
A HOLDER STRUCTURE FOR BATTERY ASSEMBLY The present disclosure provides a holder structure for battery assembly. The holder structure comprising of a top face, a bottom face, and a connecting face. The top face further comprising of at least one first pair of openings, at least one groove, at least one first vertical projecting member disposed on the groove, at least one second vertical projecting member and at least one first hole. The bottom face further comprising of at least one second pair of openings corresponding to the first pair of openings, at least one stopper and at least one second hole corresponding to the first hole. The connecting face further comprising of at least one snap fit groove and at least one projecting member. The first pair of openings and the second pair of openings are configured to accommodate batteries. The groove is configured to dispose of an interconnect for cell-level short-circuit protection. Fig. 4

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014816 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN APPARATUS FOR GENERATING ELECTRIC ENERGY

(51) International classification :H02N0002180000, H02S0040440000, B32B0037060000, H01R0031060000, B32B0037000000
(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
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(57) Abstract :
An apparatus for generating electric energy from wind energy, said apparatus being mountable on a locomotive, is disclosed. Said apparatus broadly comprises: an at least a tubular member (11); and an at least an energy conversion member (10). Said at least one tubular member (11) is configured to be hollow in structure, with both its ends being open. Said at least one energy conversion member (10) broadly comprises: a plurality of rotating members (13); an at least a load transferring member (15); an at least an energy generating member (14); and a supporting member (12). Said at least one energy conversion member (10) is disposed within said at least one tubular member (11). The disclosed apparatus offers at least the following advantages: is simple in construction; is cost-effective; is environment-friendly; eliminates or reduces shortage of electric energy; and helps to improve the economy of a country.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014837 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PCM BASED THERMAL ENERGY STORAGE SYSTEM USING PARABOLIC DISH TYPE SOLAR COLLECTOR

(51) International classification :C09K0005060000, F28D0020000000, G06Q0050060000, F28D0020020000, F24S0010900000
(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
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(57) Abstract :
In solar powered thermal and dissipate heat recuperation frameworks, the amount of energy supply does not usually match with the process demand. To conquer this some type of Thermal Energy Storage(TES) framework is fundamental for the best use of the energy sources. TES is the transitory stockpiling unit, which stores the hotness energy for some time in the future. Among the accessible advances for the warm stockpiling frameworks, thermal energystoringframeworks, utilizing stage change material (PCM) as capacity medium, are appealing because of their benefits for example, high hotness stockpiling limit and isothermal way of behaving during charging and releasing cycles. The degree of solar-based nuclear power in the globe isn't steady; rather, it relies on weather patterns & territory to determine the irregularity between energy supply and request. The idle heat storage system utilizing Phase Change Material (PCM) is a compelling approach to putting away solar powered nuclear power, which meaningfully has an impact on its state at a wide reach of temperature. In the current work, the illustrative dish type solar powered authority is utilized which gathers and reflects heat energy to a copper vessel. Water is coursed to a copper vessel and a consolidated nuclear power stockpiling tank by utilizing a DC siphon. A Solar board with a battery is utilized for the activity of the siphon. The presentation of the consolidated nuclear power stockpiling framework during charging and releasing cycles is widely investigated in this invention.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014838 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MANIFOLD MOTION CONTROL STRUCTURE OF ROBOTIC CAR ESTABLISHED ON IOT TO YIELD CLOUD SERVICE

(51) International classification	:H01H0009020000, G99Z0099000000, H02N0011000000, G06N0003000000, E05B0081040000
(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

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(57) Abstract :
The universe of control is an intriguing field that has detonated with new advances where the Internet of Things (IoT) vision becomes reality. This invention proposes a different movement controlling system of a mechanical vehicle utilizing. Every gadget is particularly recognizable by the controlling programming, which is the center idea of IoT. Client deals with the exercises of the vehicle from remote or far off places over the web by orders and Universal Windows Application and furthermore ready to get information and criticism. The fundamental commitment of this invention is that it use the productivity of robot's movement controlling framework in light of the fact that mechanical vehicle can get immediate orders all at once from different sources which make the Maneuvering framework more productive. A GPS framework is consolidated consequently clients can follow the vehicle. The framework has ultrasonic distance sensor for staying away from impediments coming in the middle of its way. We present the engineering and plan of the ARM processor and outline how to control the vehicle through orders and application. In this manner the proposed instrument, an Smart Robot saves human live and diminishes guide blunder in security thing. This is exceptionally planned spy mechanical apparatus to store human life and safeguard America from foes. One of the most basic things about these robots is that they have the capacity to complete missions somewhat inside the spot, with none genuine danger to human survival.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014873 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BLACK PEPPER PLUCKING AND SEPARATING MACHINE

(51) International classification :A61K0036670000, A47J0042040000, A01G0013020000, A23L0027140000, A01D0046000000
(86) International Application No :PCT//
Filing Date :01/01/1900
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(57) Abstract :
Often referred to as the king of spices, it comes from the dried, unripe fruit of the native Indian plant Piper nigrum. Both whole black peppercorns and ground black pepper are commonly used in cooking. In addition to adding flavour to foods, black pepper may act as an antioxidant and offer a variety of health benefits. Though India is a major producer of black pepper, the sector suffers labour shortage like other agricultural sectors. Moreover, the process of plucking, collecting bunches from the ground and separating the corns is cumbersome. Hence the current invention is towards delivering a simple solution wherein, the three processes of plucking, separating, and collecting in the bags are combined. The current invention is a simple device and has a conical chamber inside which there is a wooden conical part attached to the motor. The motor receives the power from a battery source mounted outside the device. The pepper bunch in the shrub is inserted inside the conical chamber where it is agitated and corns get separated. These separated loose corns flow through the aluminium pipe and are collected into a bag. This leads to hassle-free harvesting of black pepper.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014876 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IOT BASED KITCHEN CABINET AND THE METHOD OF STOCK MONITORING

(51) International classification :G06Q0030020000, A47G0029140000, G06Q0030060000, H04W0004800000, H04L0029080000
(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

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(57) Abstract :
Nowadays, everything is becoming smarter why not the kitchen In the kitchen, many grocery items are present; tracking the quantity of each grocery item is a difficult task and also remembering the expiry date of the grocery. Food plays a particularly important role in health throughout life, so managing grocery items is a difficult task. The proposed product helps us to remind the exhausted groceries in the house. When we are out at work, we get a notification that all the groceries are getting exhausted in the house through the given application and save our time for the activities. Since we automatically get notifications about the quantity of the groceries in the house, it is very useful in reminding about the grocery products of our home, and the user's daily and monthly usage statistics. The tracked quantity of the groceries is synchronized to the user's mobile application. The mobile application also reminds the user about the expiry date of the grocery. one copy of data is maintained in the cloud which can be used for B-to-B communication for retailer's business benefit.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014886 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF MONITORING AND THE PROCESS OF MAINTAINING THE PUBLIC TOILET HYGIENE

(51) International classification :H04W0004140000, H04L0029080000, E03D0009040000, G07F0009020000, 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

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(57) Abstract :
This invention relates to the development of a method of monitoring and the process of maintaining the public toilet hygiene for Public Toilets. The system consists of Microcontroller of type Arduino UNO (100) and the components referred in this invention are Power Supply (102), RFID sensor(104) which is used to scan the RFID Tag, IR Sensor (106) which is used to detect the presence of soap, Gas Sensor MQ-137(108) which is used to find ammonia concentration in the toilet, Ultrasonic sensor (110) which is used to detect water level in the tank and also to count the number of peoples entering the toilet and GSM modem (112) which is used to send short message service to the cleaner in case of poor maintenance of toilet. The system incorporates use of various IoT devices, a web server, and a mobile application for the cleaner. The system provides the toilet cleaner and admin with the ability to monitor various cleanliness parameters as well as visualize the future state of the toilet based on past data.

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(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014892 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN AI ENABLED FRAMEWORK FOR DETECTION OF FAKE REVIEWS OVER SOCIAL MEDIA

(51) International classification :G06N0005020000, G06Q0050000000, G06N0005000000, G06Q0030020000, G06Q0030000000
(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

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(57) Abstract :
Reviews in social media have assumed significance as people of all walks of life are relying on reviews for making decisions. It is always good to use knowledge of other people along with our own knowledge for decision making. Towards this end, reviews in social media have impact on service organizations and customers. However, there is problem with fake reviews that are intentionally spread in an organized fashion. Unless such fake reviews are filtered out, the significance of genuine reviews get lessened and the overall social feedback systems need to relay on polluted information. In order to overcome this problem, the current invention is an AI enabled framework for automatic detection of fake reviews over social media. It exploits methods of Artificial Intelligence (AI) for efficiently detecting fake reviews. The invention has a AI enabled framework with underlying mechanisms to deal with fake reviews. It has certain factors and metrics to measure and understand the probability of a review being fake or not fake. In addition to this, the invention has its supervised learning approach also to gain knowledge from training data in order to identify fake reviews. The current invention benefits many stakeholders such as social media service providers, online review web site services, general public, researchers and academia.

No. of Pages : 15 No. of Claims : 7

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(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014897 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE BASED RFID SYSTEM FOR DETECTING TRESPASSERS FOR PROVIDING ENHANCED SAFETY IN AGRICULTURAL FIELDS TO THE FARMERS

(51) International classification :G06N0020000000, G06K0009000000, G06N0005040000, G06N0007000000, G06K0009620000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
This invention analyzes machine learning and artificial intelligence based RFID system for detecting trespassers for providing enhanced safety in agricultural fields to the farmers. The proposed system alarms on detection of trespassers in agriculture fields by RFID and various sensors. The system will receive data of trespassers with the help of various sensors as well as from night vision camera, face detection sensors; foot detection sensors, height sensors, weight Sensors, Video & Audio signals & RFID Tags, the data upon processing will alert the alarm on detection of trespassers if any. The data received from the various sensors is communicated to first machine learning model to obtain the attributes on behavior and resends the data received to second supervised machine learning model to obtain a first plurality of emotions associated with the user data.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014902 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : An Energy saving and utilizing technique using the renewable and clean natural resource

(51) International classification :H02J0007350000, H02S0099000000, H02K0053000000, H02S0040300000, G01R0022100000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
We all are living in the spheroid where life has become simple due to gadgets. We aim at making life simpler. One such gadget is smart phone. Drainage of battery is a major issue and it gets worse when a person travels in a remote place or when they are trekking. In this digital world full of gadgets we come across the importance of charge in our gadgets. As we know the conventional source of energy (petrol or diesel) will not be sustainable for long. The Future Generation can't rely on Crude Oil anymore. People started depending on electric cars. Lets get more focused into Unconventional source of energy. So how is electricity generated Thermal/Solar! No one is so much aware of Piezo electricity. Every one nowadays are so keen about Solar energy. Everyone is aware about the cost structure and limitations of solar energy. We have designed a Piezo circuit which gives the same power output as of solar cell but much cheaper than that! This proposal aims to generate electricity using piezoelectric shoes. Here we generate the same power output as generated in a solar cell just by walking.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014904 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SINGLE WINDOW AUTOMATE RATION VENDING MACHINE FOR APL/BPL CARDHOLDERS

(51) International classification :G06Q0050260000, F02M0061060000, A47C0007740000, B65B0001480000, F02M0061080000
(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

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(57) Abstract :
This invention focuses on the implementation of an automatic public ration distribution system in a ration shop. Civil Supplies Corporation is the major public sector company that manages and distributes essential edible commodities to all enrolled below and above poverty level families using the traditional ration shop system. There is a chance of illegal usage of products in the conventional ration system such as the commodities may be robbed by making data entries in the book register without the knowledge of the ration cardholder. Due to this, a large amount of money given by the government gets wasted and does not reach the needy people. To overcome these problems, automation of the ration shops using arduino plays a key role in society. In the current invention designed the hardware for two commodities namely rice and dal. These two commodities are stored in reservoir tanks and are measured and supplied to the user as and when cardholder required. Cell phone number is the input given by the ration cardholder to access his/her ration availability details. It consists of an LCD screen where the consumer can select a commodity and also specify the maximum or lesser than the available quantity and based on his/her entries the commodities will be delivered. Servo motors aid in opening and closing the delivery channel of the commodity and load cell quantifying the quantity.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014906 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Precision Agriculture Unmanned Aerial Vehicle (Uav) For Artificial Pollination of Flowers

(51) International classification :A01H0001020000, B64C0039020000, A63H0033280000, A01K0047060000, A61K0036000000
(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

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(57) Abstract :
Pollination by bees and other insects is a natural and necessary biological activity for roughly three-quarters of the world's crop species. Pesticides, land damage, and climate change have all contributed to major population declines in many of these living organisms. An unmanned aerial vehicle fitted with a soap foam maker was automatically controlled to pollinate flowers. An innovation that could lead to new agricultural systems is automatic intelligent robotic pollination employing functional soft materials. By studying the physicochemical properties of functional soap bubbles, we will be able to create mechanically stabilized soap bubbles that can survive the wind force produced by drone propellers. Using the article linked above, the chemical characteristics of soap solution are computed. The drone is then linked to it. As a result, the entire equipment is shifted over to the targeted blooms. As a result, the precise and accurate results desired can be obtained. Optimizing the pH of the bubble solution and mixing this with boron, calcium, magnesium, potassium, and a few other ingredients to make it as pollen-friendly as possible and demonstrating that pollen grains within the solution may sprout effectively. These bubbles work because they last for up to 5 hours. Farmers simply needed to mix 0.06 milligrammes of pollen to make bubbles. If pollen is added to a soap solution, growers will need to collect significantly less pollen before automatically pollinating their flowers. Our drone pollination differs from the one that is showed in above article where our bubble maker is wiper mechanism. Here wiper is moved from one end to other end with the help of motors. As a result there is precise bubble formation and this bubble will force the pollen to come out. Taking appropriate altitude and optimal size of propellers we can successfully implement this device. One should understand that this invention will not replace any insects; rather it will bring back insect ecology which was not there earlier in the field. There are other methods like example bee cultivation which is very popular but there is some disadvantage that initial cost of beekeeping can be intimidating to new beekeepers. We will need to invest in supplies such as hive, proper protective clothing, and a smoke and hive tool. These things are eliminated by the use of our new invention because there are only two requirements one is drone integrated with bubble maker and secondly operator to operate drone. More solutions to current problems in our society is discussed in below problem section.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014908 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Detachable Electric Wheelchair Bike for Physical Disabled Person

(51) International classification :A61G0005040000, A61G0005100000, A61G0005000000, A61G0005080000, B62K0005003000
(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
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(57) Abstract :
In this invention, a detachable electric wheelchair bike is designed to help physically disabled persons to move independently. The detachable electric wheelchair bike (100) system consists of (i) the front part (109), which includes a front wheel (108), which is connected to the shock absorbers (117) to absorb the shocks during its movement on the road. Also, it assembled with two headlights (113) for the easy access of road at the night, a handle (116) with a hand brake and accelerator to comfortably control the wheelchair bike while it is moving on the road, and two supporting wheels (115); (ii) the back part (103), which is used as a wheelchair by the physically disabled person inside the house to move from one point to another; which includes a seat (112) mounted on the back cover (101) with backrest, hand rest (114) and joystick (118) provided on the right-hand side of the hand rest. By operating the joystick the user can easily control the forward, backward, right, and left turn, and even it can be stopped whenever required. The rechargeable battery (111), electric motor (106), are connected to the rear axle (102) through a belt drive (102) system to supply drive motion to the wheelchair, and two rear wheels (104) and two supporting wheels (107) are provided for the easy travel and to balance the wheelchair; (iii) the locking system (110) is used to connect and disconnect the front part (109) with the back part (103) to make the electric wheelchair as a wheelchair bike when needed. The locking system (103) consists of a stud (110a) and a nut (110b), the stud (110a) is inserted into the threaded holes provided in the front part (109) and back part (103) and locked together using a nut (110b). Similarly, they can be separated apart by removing stud and nut.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014943 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BIODEGRADABLE PHYTOABSORBENT ARTICLE FOR SANITARY AND A METHOD THEREOF

(51) International classification :A61F0013530000, A61F0013150000, A61L0015400000, A61K0036680000, A61F0013472000
(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

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(57) Abstract :
The present invention relates to a biodegradable sanitary pad containing a natural absorber called ispaghula derived from the plant Plantago ovata (Plantaginaceae). A multilayered natural phytoabsorbent article is scented with clove oil to improve the anti-microbial property for sanitary application. The UV sterilized phytoabsorbent article will avoid the health hazards normally caused by the available commercial napkins. It showed better absorption and retaining capacity when compared with the commercial napkins. The ispaghula seed and husk has very high swelling property. This absorbent article may be used for more sanitary applications and are not limited to baby diapers, panty liners, sanitary napkins, adult incontinence pads and bed pads. Therefore, the sanitary pads according to an embodiment of the present invention has no harmful chemical components and provide beneficial effects to the human body by replacing a super absorbent polymer (SAP), having a synthetic compound as a conventional absorber. (Ref. Fig. 1)

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014944 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD TO INHIBIT NRF2 ACTIVITY USING HPV E6/E7 FOR SENSITIZING TO CHEMO-RADIOTHERAPY

(51) International classification :C12N0015113000, A61K0048000000, A61K0045060000, A61K0031537700, A61K0031496000
(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
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(57) Abstract :
Resistance to chemotherapy and radiotherapy remains a major obstacle in the successful treatment of cancer. One such transcription factor, the hyper-activation of which is associated with many human cancers including lung, oesophageal, head and neck, urinary bladder and gastrointestinal cancers is NRF2 signalling. The pharmacological inhibition of NRF2 gene in various cancer cells using siRNA or CRISPR/Cas9 approaches has been shown to deplete the antioxidant defences and sensitize to chemoradiation therapy. Therefore, targeting this cell survival pathway for inhibition is a best possible strategy for treatment of resistant tumours. Through this method we demonstrate that the ectopic expression of HPV E6/E7 proteins as adjuvant therapeutics to inhibit NRF2 pathway and thereby sensitize cancers to chemoradiotherapy. The disclosed method is to be used as potential therapeutic agent for treatment of various diseases or conditions involving oxidative stress and or inflammation, including but not limited to cancers.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014946 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Smart Assistive System for Paralyzed People using Intelligent Wheelchair

(51) International classification :A61G0005100000, G06F0003010000, A61F0004000000, A61H0001020000, A61G0005040000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The objective of the present invention is to make the paralyzed people feel independent by assisting them by an intelligent wheelchair which recognizes the eye movement (101) and moves in the direction based its blink. According to the embodiment of the present invention, a control unit (109), a Bluetooth integrated brainwave sensor (102) and servo motors are used in the prototype of the present invention. The control unit (109) will act as a main processing unit whereas the brain wave sensor (102) as an input for assessing the eye movement (101) and servo motors will be the output to turn the wheelchair automatically to the desired direction. Moreover, the wheelchair can be used to almost all kind of paralysis like paraplegia, monoplegia, quadriplegia and Amyotrophic Lateral Sclerosis (ALS). (Refer Fig. 1)

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014947 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Web Based Smart Mailbox System

(51) International classification :G06K0007100000, G06K0019077000, G06Q0020340000, G06Q0020140000, H04L0029080000
(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

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(57) Abstract :
The present system is developed using RFID reader (102) and card. The system uses keypad (101), if we press one in keypad (101) then after that we need to swipe the card then the post or parcel details (whether it is regarding to Flipkart or amazon etc..) that time motor will rotate also the data will upload at the IOT platform and so that can easily check the data through anywhere in the world regarding post. (Refer Fig. 1)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2022

(21) Application No.202241014948 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A solar panel high energy technology

(51) International classification :E03B0003280000, H02J0007350000, G08B0005220000, H02K0053000000, H01L0027146000
(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

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(57) Abstract :
ABSTRACT Ordinary solar panels have been made more advanced. In this technique, as in drawing no.1, figure-1, we put a square sun panel. It has the ability to absorb sunlight from all four directions. With this type of sun panel, we can supply electricity to all types of equipment. This is described in detail in drawing no. 1 and in the description of the technique. This technology can be used for domestic and industrial purposes. This technique can be used in domestic and industrial areas like figure 2 of normal solar system, drawing number 1. Electricity can be provided to the bulb by this technique. Irrigation can be done in agriculture by this technique. The energy obtained from this technology can be used in TV, fans etc.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014950 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CARRIER SELECTIVE PASSIVATION CONTACT SILICON HETEROJUNCTION SOLAR CELLS

(51) International classification :H01L0031180000, H01L0031021600, H01L0031074700, H01L0031074000, H01L0031054000
(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
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(57) Abstract :
Transition metal oxides (TMOs) have been demonstrated for carrier selective passivation contacts for silicon heterojunction (SHJ) solar cells. The TMOs are wide bandgap (3 eV) semiconductors with p/n-type nature and work function ranging from 2 to 7 eV. These non-toxic, dopant free contact layers are best alternate to toxic and dopant hydrogenated amorphous silicon (a-Si:H) layers in SHJ solar cells due to parasitic absorption and resistive losses and complicated process steps of dopant a-Si:H layers. Carrier selective contact SHJ solar cells are most favorable in recent and future days due to capable of high efficiency, low manufacturing cost, low temperature depositions, good passivation, non-toxic, dopant free contact layers and easy fabrications steps.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014951 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC ALERT SYSTEM FOR MONITORING AND METHOD OF DETECTING BLOCKAGE IN MANHOLE

(51) International classification :H04W0052140000, G01D0021020000, G08B0019000000, G01F0023000000, G08B0021240000
(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

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(57) Abstract :
The present invention includes three sensors and dc motor, i.e., Temperature sensor DHT11, Water level sensor and Gas sensor (MQ2) all of which are connected to the Arduino that is powered by the 5V power supply. The LCD on the Arduino displays the real-time readings. The information collected from the Arduino is made available on the website by WIFI module. When the respective sensors reach the threshold level, the indication of that respective value corresponding to the sensor is sent to the microcontroller. Arduino Uno sends the signal and location of the manhole to the municipal corporation through Wi-Fi module and the officials could easily locate which manhole is having the problem and could take appropriate steps. This system reduces the death risk of manual scavengers who clean the underground drainage.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014959 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CALIBRATED PUNCH BIOPSY WITH EXCHANGEABLE TIPS

(51) International classification :A61B0010020000, A61B0090000000, A61B0017320000, A61B0010040000, A61B0017000000
(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

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(57) Abstract :
TITLE: CALIBRATED PUNCH BIOPSY WITH EXCHANGEABLE TIPS APPLICANT: MEENAKSHI ACADEMY OF HIGHER EDUCATION AND RESEARCH ABSTRACT The present invention discloses a Calibrated Punch Biopsy instrument, configured to perform biopsy of tissue specimen of desired dimensions thereby preventing insufficient biopsy specimen and overextension during the procedure which results in severance of vital structure and hemorrhage. The calibrated punch biopsy instrument of the present invention comprises of a hand piece[1], characterized in that presence of a closed distal end having a push button[2] on top and open proximal end having a magnetic base[3], in which a. the magnetic base[3], is configured to receive plurality of working ends[4] exhibiting magnetic properties through magnetic force of attraction and the working end comprises of tubular, calibrated blade[8]with scale markings embossed on the surface with color code, in which (i) black code[5] at 5mm from the tip of the working end indicates insufficient depth of insertion, (ii) blue code[6]at 10mm from the tip of the working end indicates sufficient depth of insertion and (iii) red code[7] at 15mm from the tip of the said working end indicates excessive depth of insertion/imminent vital structures; b. the push button[2] is configured to push the working end[4] into a biopsy area upon pressing the push button[2], to achieve adequate tissue specimen depth by the markings provided in the blade[4],thereby preventing overextension to vital structures.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014960 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CALIBRATED BP BLADE

(51) International classification :A61B0090000000, A61B0017320000, A61B0017000000, A61B0001040000, A61B0017880000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
TITLE: CALIBRATED BP BLADE APPLICANT: MEENAKSHI ACADEMY OF HIGHER EDUCATION AND RESEARCH ABSTRACT The present invention discloses a novel calibrated BP blade [100] to standardise depth of a tissue during oral surgical procedure thereby preventing insufficient tissue specimen depth or excessive haemorrhage. The calibrated BP blade [100] of the present invention comprises of an handle [101] and curved working end [102], characterized in the working end comprises of embossing scale marking on the surface with colour code in which black colour code [103] at 10mm from the tip of the working end indicates desirable depth of insertion and red colour code [104] at 15mm from the tip of the working end indicates imminent vital structures.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014961 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CALIBRATED PUNCH BIOPSY

(51) International classification :A61B0010020000, A61B0017000000, A61B0090000000, A61B0017320000, A61B0017320500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
TITLE: CALIBRATED PUNCH BIOPSY APPLICANT: MEENAKSHI ACADEMY OF HIGHER EDUCATION AND RESEARCH ABSTRACT The present invention discloses a calibrated punch biopsy instrument, configured to perform precise biopsy of tissues in oral cavity thereby preventing insufficient or over extended biopsied specimen. The calibrated punch biopsy instrument of the present invention comprises of a hollow cylindrical body[1] characterized in that, disposing transparent working end having tubular, calibrated blade[4]at the distal end and disposing a punch knob[3] with length adjuster[2] in the rear end, in which i) the length adjuster[2] is interconnected to the working end[4]through a spring mechanism and is configured to manually rotate the length adjuster[2] to increase/decrease the length of the working end[4] based on the calibration in the blade[4] for adequate depth of tissue penetration; ii) the punch knob[3] is configured to push the working end[4] into the tissues of biopsy area upon pressing the punch knob[3] in which the biopsy specimen retains within the tubular calibrated blade[4] thereby retrieving the specimen without any damage.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014962 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A MIXED FRUIT PEEL COMPOSITION AND THE PROCESS THEREOF

(51) International classification :A61K0036420000, A61K0031510000, A23L0021120000, A47J0017040000, A23K0010370000
(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

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(57) Abstract :
TITLE: A MIXED FRUIT PEEL COMPOSITION AND THE PROCESS THEREOF APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN ABSTRACT The present invention shall disclose a process of preparation of mixed fruit peel composition exhibiting larvicidal property. The process of the present invention comprises of a. mixing peels of characterized combination of lemon, orange, mosambi, watermelon, muskmelon, pineapple, pomegranate and apple to form mixed fruit peel; b. mixing the mixed fruit peel with jaggery and water followed by fermentation to form the mixed fruit peel composition. The present invention also discloses a mixed fruit peel composition exhibiting larvicidal property prepared by the above described process.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014963 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVELOPMENT OF SCIENCE LAB TALKING DEVICE

(51) International classification :G09B0021000000, G10L0013000000, G06Q0050220000, G09B0023180000, G09B0023060000
(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

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(57) Abstract :
TITLE: DEVELOPMENT OF SCIENCE LAB TALKING DEVICE APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN ABSTRACT The present invention discloses a novel Science Lab Talking Device for visually impaired individual to perform science experiment and is configured to give out voice output of the results. Science Lab Talking Device has been developed using Arduino Mega 2560. The developed device can function with a AC to-DC adapter power. The critical part of the Arduino Mega 2560 is that it is compatible with all sensor operations. Arduino Mega 2560 directly runs the programme in micro controller which in turn converts the sensor reading with minimum time and maximum speed. The device employs six sensors connected to the Arduino Mega 2560. The sensors used for various science experiments include: Temperature, Colour, Light Detection &Current Measurement sensor, Volte Measurement and Weight sensor. For each sensor operation, separate push buttons have been fixed on the board. The device works with embedded C program. The Embedded C program interface technology is used for real time data collection and converting the output in voice reading to enable visually impaired students to get the real time data in voice form.The voice output is read both in Tamil and English language. The output is heard through an ear phone/head phone connected with the device.The devices convert the non visual experience into visual experience. So that visually impaired students could perform science experiments using the device.

No. of Pages : 43 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2022

(21) Application No.202241014976 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A Kind of Low Profile SIW Cavity-Backed L-Shaped Slot Antenna

(51) International classification :H01Q0013180000, H01Q0001380000, H01Q0013100000, H01Q0001500000, H01Q0013200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
The present invention discloses a SIW based dual band cavity-backed slot antenna 100, which comprises a dielectric substrate 101, a micro-strip line 107, a metal through hole 102, and a composite slot 104. Upper and lower metal layers are placed in respectively on the top and bottom sides of the dielectric substrate 101; Multiple metal through holes 102 are sequentially distributed to construct the SIW cavity 103 on the dielectric substrate 101, where cavity in rectangle surrounding the composite slot 104. A radiating slot 104 is etched at the upper metal layer of the SIW cavity 103. The micro-strip line 107 is used to excite the SIW cavity 103, including radiating slot 104. The proposed SIW based dual band cavity-backed slot antenna 100 with L-shaped slot 104 and shorting vias 105,106 achieves dual band response and provides high gain, unidirectional pattern and high FTBR.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015028 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN EFFICIENT SYSTEM TO MONITOR THE CULTIVATION OF CROP PATTERNS BASED ON SOIL FERTILITY USING DEEP LEARNING TECHNIQUES

(51) International classification :G06K0009620000, A01B0079000000, G06N0003080000, G06K0009660000, H04W0016280000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
An efficient system to monitor the cultivation of crop patterns based on soil fertility using deep learning techniques is the proposed invention. The proposed invention focuses on implementing an efficient framework for analysing the crop pattern that is best suited for the particular soil based on its fertility. The deep learning techniques are used for planning the plantation of crop in order to gain maximum profit.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015029 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL VOICE FOR VOICELESS USING ENGLISH LANGUAGE

(51) International classification	:A61K0039395000, G06K0009620000, G10L0015260000, A61F0002200000, G10L0013000000
(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

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(57) Abstract :
Artificial voice for voiceless using English language is the proposed invention. The proposed invention focuses on designing a system that is monitored by techniques of artificial intelligence. The invention acts as a voice for dump people by dictating their views and speech.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015031 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE ENABLED COMPARATIVE STUDY TO ANALYZE THE CHARACTERISTICS OF SILICON TO CALCIUM TITANIUM OXIDE IN SOLAR PANEL SETUP

(51) International classification	:B01J0021060000, H01G0009200000, C04B0028260000, G02B0027010000, H02S0040440000
(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

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(57) Abstract :
Artificial Intelligence enabled Comparative study to analyze the characteristics of Silicon to calcium titanium oxide in Solar panel setup is the proposed invention. The invention aims at implementing aspects of artificial intelligence technique to analyze and compare the characteristics of silicon to calcium titanium oxide. The ultimate goal is to analyze the efficacy of silicon to that of calcium titanium oxide in the process of utilizing the solar energy

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015081 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVELOPMENT OF ANNULAR COMBUSTOR WITH GYRATED FUEL INJECTION TECHNIQUE FOR GAS TURBINE APPLICATION

(51) International classification	:F23R0003060000, F16C0017180000, F23R0003500000, C10L0001000000, F24H0003040000
(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

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(57) Abstract :
The present invention relates to an annular combustion chamber with gyrated fuel injector in accordance with one embodiment of the present invention. In the present invention assembly, the whirl velocity is imparted into the fuel jet for enhancing the mixing of air & fuel. As a result, complete combustion with uniform turbine inlet temperature is observed, affirming reduced CO emissions. Since the energy required for imparting whirl motion is directly extracted from the shaft connecting compressor and turbine, the current method is energy efficient as compared to conventional techniques. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015149 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED MODULE FOR ALGORITHMS OF SECOND ORDER DIFFERENTIAL DELAY IN FISHERIES

(51) International classification :G06N0020000000, G06N0003040000, A23K0050800000, H04L0001000000, G06N0003080000
(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
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(57) Abstract :
Artificial intelligence-based module for algorithms of second order differential delay in fisheries is the proposed invention. The invention implements algorithms to identify the flaws in fisheries using second order differential equations. Artificial intelligence is used for technically intervenes the growth of fish with derivative algorithms.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015161 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A MUSICAL SCALE GENERATION THROUGH BREADTH-FIRST SEARCH ALGORITHM FOR HEALTH BENEFITS

(51) International classification	:G10H0001000000, G06F0016683000, G06F0040284000, A61B0005024000, G06F0016901000
(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

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(57) Abstract :
Raga collections are mostly used in music information systems. Melakartha ragas are the most important concept in music theory. All the existing ragas in music theory are derived from mela kartha ragas. The main objective of this paper is to generate all 72 ragas automatically that may contribute to specific health benefits. The invention identifies an application of graph theory in music information technology. An undirected graph is constructed using the melakartha algorithm with seven swaras and their variations as its vertices. By applying the Breadth-First Search algorithm, to the constructed graph, we generated all possible paths that represent the 72 Melakartha ragas.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015172 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SYSTEM FOR SECURE AND TRUSTWORTHY DATA COMMUNICATION USING BLOCKCHAIN-BASED IOT FRAMEWORK AND METHODS THEREOF

(51) International classification :H04L0029080000, H04W0004700000, G06F0021620000, H04L0029060000, H04W0012060000
(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
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(57) Abstract :
IoT is now an important part of our daily lives. There are a lot of smart devices in the world today. where our lives are easy. It has changed how people interact with devices. We can't deny that IoT-enabled devices have made our lives a lot better. However, there are still a lot of things that need to be done to get the most out of 5 IoT devices and IoT. Networks can be used. It's not very common for IoT devices to do complicated calculations or store a lot of data. It doesn't have a lot of power, processing power, or storage space. IoT devices are used in a lot of different ways in the world. critical infrastructure and to send sensitive data IoT devices need to be safe and private. and data communication are important things to look at. It's just 10 that existing security methods don't work well with IoT devices because they don't have enough resources. Recent changes in the blockchain Technology has a lot of good ideas for how to solve problems with IoT security and privacy. Because IoT and blockchain technology don't work together very well, this isn't an easy task. Blockchain is itself. Demands a lot of storage and processing power. This invention 15 shows how blockchain can be used to make IoT framework that balances the needs of IoT devices with the needs of blockchain technology.

No. of Pages : 5 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015176 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NOVEL METHOD FOR NITROGEN RECOVERY FROM HUMAN URINE

(51) International classification :B01D0053220000, C02F0103200000, C02F0101160000, C05F0003000000, A01N0065000000
(86) International Application No :PCT//
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Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Human urine may have been utilised as a natural fertilizer in agriculture, but the presence of micropollutants, odor and the storage of huge volumes of urine pose challenges to this approach. As a result, nutrients, such as nitrogen, can be retrieved from the excretion of urine. A membrane reactor was constructed for the recovery of nitrogen from human urine. Ammonia recovery from human urine using a membrane gas separation approach has yet to be researched. Until now, this type of nitrogen recovery membrane separation has not been reported in the professional flow-sheet community. Physical events, rather than biological variables, provide the basis for this separation strategy. This treatment plant's primary goal is to remove nitrogen from human urine.

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(21) Application No.202241015261 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NEW AUGMENTATION PROCESS FOR DOE CONSTRUCTION FOR BIODIESEL PERFORMANCE EVALUATION IN IC ENGINES

(51) International classification :G05B0017020000, H01L0027088000, C10L0001020000, G05B0013040000, G01C0023000000
(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

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(57) Abstract :
The main purpose of the present invention is to tune the proper set of biodiesel to improve the performance of the IC engine model. The main design of our present invention discloses the new augmentation process for DOE construction for biodiesel performance evaluation in IC engines. Initially, basic DOE constructions of biodiesel are stored in a DOE storage unit. Then, the ANN-loaded FPGA kit predicts the performance of the engine based on the DOE construction. The arithmetic unit calculates the slope between consecutive DOE records and validates the intermediate slope. If the slope value is less than the threshold value, then this method removes the DOE record by the switch unit. Otherwise, the arithmetic unit calculates the intermediatory DOE records and adds DOE records. Finally, the control & termination unit decides the removal or inclusion of DOE records for increasing IC engine performance. [To be published with Figure.2]

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015269 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NANOTECHNOLOGY UTILIZATION ASPECTS IN SOLAR PHOTOVOLTAIC CELLS FOR EFFICIENT PERFORMANCE ANALYSIS AND ABSORPTION RATE OF SOLAR ENERGY

(51) International classification :H01L0031054000, H02S0040440000, H02S0040400000, H01L0031021600, F24S0020700000
(86) International Application No :PCT//
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(57) Abstract :
Nanotechnology utilization aspects in solar photovoltaic cells for efficient performance analysis and absorption rate of solar energy is the proposed invention. The proposed invention focuses on designing and implementing techniques of nanotechnology to solar energy harvesting. The invention will increase the efficiency of solar cells, their utilization and ultimately the absorption capacity.

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(21) Application No.202241015271 A
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(54) Title of the invention : BLOCKCHAIN BASED ELECTRONIC RECORD FOR HEALTHCARE MONITORING SYSTEM

(51) International classification :H04L0009060000, H04L0009320000, H04L0029060000, G06F0016270000, G16H0010600000
(86) International Application No :PCT//
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Filing Date :NA

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(57) Abstract :
The basic concept of using Blockchain database in order to manage and maintain electronic health records of the patient used for monitoring the health and to provide better services and to store and preserve the data pertaining to the patient health and to make it public to the domain experts it is very important that the data has to be stored in a secured database, so that only the authorize users can have the access to the same. So, in order to safe guard the data and to maintain privacy of the data it is always recommended to have a database which cannot be mutated. So, the importance of blockchain is vital to store the data safely. Basically, blockchain is a distributed database where data is shared among the nodes in a network. This database stores information in the electronically digital form. This particular database is more popular to store data pertaining to crytocurrency systems. Blockchain will help us in providing complete security of the records stored and will help in generating trust factor. More over the blockchain also provides fidelity of the data stored. Data structure of blockchain and the other databases is the key for providing security and privacy of the data. Blockchain makes use of blocks which stores information in it. Blocks can store information with some limit on the storage capacity and after the block is completely filled up, it will then store information in the next block by creating a link to the previous block. Normally database stores data in the form of tables, but in case of blockchain the data is stored in the form of blocks (chunks of data) and are connected with all the blocks. Because of the structure of the data stored in blockchain it becomes almost impossible for anyone to hack it or manipulate the data stored. Every block created will have a timestamp associated with it when these blocks are added in chain.

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(54) Title of the invention : Automated Portable Pest Trapbot (APPT)

(51) International classification :A01M0001040000, A01M0031000000, A01M0029160000, A01G0013100000, A01N0065420000
(86) International Application No :PCT// /
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The use of pesticides is very harmful, and it contaminates soil, water, air, and other vegetation. In addition to killing insects or weeds, pesticides can be toxic to a host of other organisms including birds, fish, beneficial insects, and non-target plants. To minimise the use of pesticides, we can go with natural control as like the traditional methods. The invention is automated pest trapbot which will be on wheels. The trapbot is an automatic solar powered trapping system. It consists of sound detection sensors for finding the location of the pest in the far. On hearing the sound, the trapbot moves to a certain distance and traps the insects. The equipment can also be kept stationery at one place by changing the mode. The trapbot uses the solar power during the day and during night the led lights are on automatically to control the pest. This trapbot could lure several types of insect pests in the flowers and vegetable crops.

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(19) INDIA
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(21) Application No.202241015280 A
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(54) Title of the invention : The Impact of Accountants in Credit and Loan Control Management in Micro Finance Banks

(51) International classification :G06Q0040020000, G06Q0040000000, G06Q0040060000, G06Q0020100000, B43K0029013000
(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
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(57) Abstract :
The Impact of Accountants in Credit and Loan Control Management in Micro Finance Banks. Abstract: It's the same as any other investment, but with additional risks. These risks come in a variety of forms, including default, inflation, and loss of purchasing power, to name a few. This demonstrates the need of expert advice in assisting individuals in making appropriate judgments about what to do (Ejiogu, 2002). According to Edward Edimnce, a professional accountant is necessary to keep track of loans and credit cards (2004). He asserts that even without an accountant, banks can more effectively control and manage their loans. Mgbada questioned the accountant's unique role in this instance. He asserts that banks may manage their loans more effectively even without an accountant. Loans at the majority of financial institutions are loaded with peril. Outside of the balance sheet, numerous more credit risk sources exist, including the investment portfolio, overdrafts, and letters of credit. These are only a few instances. Banks take a risk when they trade in derivatives, foreign exchange, and cash management services. Putting a bank's bottom line at risk with some of these goods, services, and operations may be damaging. However, when it comes to credit risk management, there is a possibility that a lender would not perform as promised. Banks may be able to mitigate or enhance loan repayment risk. To avoid taking on excessive risk at the initial phase of loan origination, a bank's underwriting standards, rapid and balanced approval processes, and well-trained lending professionals are all required. How critical is having accountants responsible for credit and debt management How critical is accounting as a loan and credit portfolio manager We want to learn more about these topics through this study. This study may be of interest to management accountants. You must analyse and approve each investment in the company's investment portfolio. The study's findings are also likely to benefit government institutions responsible for lending and credit supervision, as well as the federal debt management agency, which will use them as a reference. Researchers pursuing a comparable issue may also find the paper beneficial. This is because it serves as a foundation for their own work. To begin, this research will assist academics as well as the general public. This study will analyse the roles of accountants in credit and debt management. Additionally, it is interested in learning how accountants support microfinance organisations with credit and loan management, as well as how they can assist. Finally, one must consider the accountant's involvement in acquiring effective and efficient collateral security for loans.

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(22) Date of filing of Application :19/03/2022

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(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT based smart Stroke Disease prevention system using data mining approach in medical field

(51) International classification :G16H0050300000, G16H0050200000, A61B0005053000, G16B0020000000, G16H0010200000
(86) International Application No :PCT// Filing Date :01/01/1900
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(61) Patent of Addition to Application Number :NA Filing Date :NA
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(57) Abstract :
IoT based smart Stroke Disease prevention system using data mining approach in medical field Abstract: When you have an ischemic stroke, your brain's blood vessels are damaged. As a result, long-term brain damage occurs. When the brain's blood and nutrients are not getting to it, a variety of symptoms can occur. Stroke is widely believed to be the leading cause of death and disability on a global scale. If you pay attention to the numerous warning signs, strokes can be less severe and have fewer long-term consequences. Several ML models have been used to predict the stroke over the last decade. Using a variety of physiological data, ML, LR, DT, Random Forest (RF), and Voting- Classifier, the researchers developed four distinct models that were effective at predicting what would happen. Random Forest outperformed other algorithms in this case, achieving an accuracy rate of 96%. The Stroke Prediction dataset was used to develop this technique. These models were found to be more accurate than those used in previous studies, implying greater reliability. This is consistent with findings from other studies. Numerous models were compared, and the scheme was deduced.

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(21) Application No.202241015282 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Internal Auditing and Fraud Discovery in the Banking Sector

(51) International classification :G06Q0040000000, G06Q0010100000, G06Q0040020000, G06Q0010060000, G06Q0030000000
(86) International Application No :PCT//
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(57) Abstract :
Internal Auditing and Fraud Discovery in the Banking Sector Abstract: As long as fraud goes undiscovered, it can cause significant damage to an organization's assets. Despite the fact that India's banking sector is one of the most closely watched and regulated in the world, numerous types of fraud continue to be explored. This has a detrimental effect on profit margins. Internal audits have been studied to determine how they contribute in the detection of fraud. Although no study has been undertaken to establish this, many persons assume that internal audits and the ability to detect fake financial reporting are related. Numerous factors contribute to the ease with which internal auditors at financial institutions uncover fabricated financial reporting. These characteristics include their ICT capabilities, credentials, expertise, and self-sufficiency. 471 individuals were randomly selected from the internal audit departments of ten banks to participate in the study's cross-sectional survey, which questioned respondents about their jobs. Individuals may obtain 100% of the time. Adj R2 = 0.363, F(4, 211) = 31.91, p 0.05, and internal auditor characteristics have a significant effect on internal audit effectiveness (Adj R2 = 0.029, F(4, 211) = 10.51, p 0.05). Internal auditing has been shown to be critical in the fight against fraud in financial businesses. The study's findings indicate that public banks should pay greater attention to their internal control systems. In banking, fraud can take on a variety of forms, all of which demand well-trained internal auditors who are adept at utilising cutting-edge technology (ICT).

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(21) Application No.202241015283 A
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(54) Title of the invention : IoT and Artificial Intelligence based perdition of food contamination using data mining techniques

(51) International classification :C12Q0001689000, G06Q0050220000, G16H0050800000, A23L0033000000, G06Q0050260000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
IoT and Artificial Intelligence based perdition of food contamination using data mining techniques. Abstract: Certain bacteria, viruses, and parasites can cause illness in humans if they eat contaminated food. As the name implies, pathogens are organisms that cause illness in people. Individuals must learn and practise proper food handling methods in order to avoid food poisoning. This is because food poisoning can be fatal. It is the responsibility of Food Safety to ensure that food prepared and consumed in the authorised manner does not cause harm to the client. Food poisoning is a common occurrence throughout the world, but is particularly prevalent in developing countries. A foodborne disease can spread if individuals with the sickness exhibit symptoms, contaminating the food. Individual and public health are jeopardised as a result of pollution. Food is deemed healthy or safe if it retains its nutritional content, is physically, chemically, and microbiologically cleans, and has not spoiled. Consuming food that has been contaminated with elements that render it unfit for consumption poses a risk to humans. This chapter is entirely dedicated to defining what constitutes safe food and developing effective techniques for preventing and treating food-borne illnesses.

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(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015284 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Wearable Sensors based Misdiagnosis of Parkinson’s Disease perdition method using and Artificial Intelligence (AI)

(51) International classification	:A61B0005000000, A61B0005110000, G16H0050200000, A61K0031198000, G06N0020000000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
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(57) Abstract :
Wearable Sensors based Misdiagnosis of Parkinson’s Disease perdition method using and Artificial Intelligence (AI) Abstract: Parkinson's disease is a neurological condition affecting the extrapyramidal nervous system. It is only second to Alzheimer's in terms of how it affects the brain. The first signs and symptoms may occur far before retirement age, making it impossible to continue working for an extended period of time. It might be difficult to distinguish between PD and other conditions since they can be confounded. Wearable sensors and artificial intelligence are used to develop a system that offers a second view if a subject fails a test. Motion data was acquired from people suffering from Parkinson's disease (PD) and other extrapyramidal disorders who wore sensors that observed their movements. Patients with Parkinson's disease are compared to other people with the same condition, rather than to healthy controls. Wearable technologies for diagnosing Parkinson's disease can be tested using this method to determine their accuracy. There are a variety of machine learning approaches that can help improve the accuracy of a Parkinson's disease diagnosis by analysing and classifying data from patients' tremors. When bradykinesia and tremor are examined, Parkinson's disease can be distinguished from other illnesses (f1 score 0.88). A human being is a living being (f1 score of 0.88). Because of the technology's closed-loop nature, you can quickly build routines that are most effective for diagnosing your health. It was determined that 56 of the people who sought medical help were positive.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/03/2022

(21) Application No.202241015285 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AI, IoT based real time condition monitoring of Electrical Machines using Python language

(51) International classification	:G01R0031500000, G01M0013045000, G01D0021020000, F16C0019520000, G08B0021180000
(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

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(57) Abstract :
AI, IoT based real time condition monitoring of Electrical Machines using Python language Abstract: Maintaining induction motors in good working order before they fail benefits small and medium-sized businesses by decreasing downtime and enhancing efficiency and reliability. The goal of this research is to evaluate the vibration and temperature of an induction motor in order to acquire specific data that may be used to predict bearing failure. You can tell the difference between a working motor and a broken motor by checking the vibration signal. The purpose of this paper is to explore how to use the Internet of Things to monitor the health of industrial motors in real time.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/03/2022

(21) Application No.202241015292 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : An automated Physiotherapic machine for Orthopedic and Paralysis treatment

(51) International classification :A61H0001020000, A61N0001360000, A63B0024000000, A61N0002000000, A61F0005010000
(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
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(57) Abstract :
The present invention disclosed If a paralysis patient does not engage in physiotherapy, he or she runs the risk of developing a permanent impairment. Our technology aims to produce automated portable physiotherapy equipment that can treat paralysis and orthopedic difficulties in the absence of advisers. For paralysis and orthopedic disorders, there is no automated machinery in the modern world, and only manual control systems or advisor-based devices are available for treatment. We're now focusing on the paralysis and orthopedic problems that affect the human leg and hand. Our goal is to make it easier for them to do so on their own, without the assistance of a professional physiotherapist, like a robotic machine for fingers. Orthopedic physiotherapy aims to relieve pain, enhance joint range of motion, improve strength and flexibility, and restore full function to patients via specially developed physiotherapeutic exercises.

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/03/2022

(21) Application No.202241015298 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD FOR FOG COMPUTING AND ITS ROLE IN THE INTERNET OF THINGS: CONCEPT, SECURITY AND PRIVACY ISSUES

(51) International classification	:H04L0029080000, H04L0029060000, H04L0012240000, G05B0019042000, H04L0009320000
(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

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(57) Abstract :
Disclsoed is method for fog computing to provide computing resources at the edge of a network to address security measures which we are going to face while deploying internet of things in to live environment and its role in the internet of things: concept, security and privacy issues comprises based on hierarchical architecture and operatibility between Infrastructure Module; Platform Module; Storage Media Module; Software-as-a-Service Module; and Data Services Module; wherein hierarchical architecture is based on - Terminal layer 201, Fog layer 202, Cloud layer 203. Fog computing is the extended version of cloud computing having the same data storage and computation capabilities but is fundamentally distributed in nature by providing services at the edge of the network. the invention describes about the Fog computing, elaborate its complicated architecture, highlighted few feasible applications and mentioned about the current security and privacy issues with the recommended security measures which we are going to face while deploying internet of things in to live environment.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/03/2022

(21) Application No.202241015299 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SURFACE MODIFIED NANOPARTICLES FOR THE TREATMENT OF CANCER AND METHOD OF PREPARATION THEREOF

(51) International classification :A61K0009510000, B82Y0030000000, C09C0001360000, C09C0001300000, C08K0009060000
(86) International Application No :PCT// /
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT SURFACE MODIFIED NANOPARTICLES FOR THE TREATMENT OF CANCER AND METHOD OF PREPARATION THEREOF The present invention relates a surface modified nanoparticles for the treatment of cancer and evaluate their cytotoxic activity against breast cancer cells. The invention also relates to a process for the preparation of the nanoparticles. Fig 1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015306 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM FOR DIGITAL CRIMINAL INVESTIGATION BASED ON ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

(51) International classification	:G06N0020000000, G06N0003080000, G06F0016245800, G06F0016780000, G06N0005000000
(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

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(57) Abstract :
The present invention relates to system for digital criminal investigation based on artificial intelligence & machine learning. The objective of the present invention is to solve the problems in the prior art technologies related to machine learning based digital criminal investigation.

No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015307 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SURVEILLANCE ROBOT FOR SECURITY USING LIDAR DURING PANDEMIC

(51) International classification :B25J0009160000, B25J0005000000, B25J0011000000, H04N0007180000, B25J0019020000
(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

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(57) Abstract :
Mobile Robot is a machine which is able to perform locomotive tasks. Mobile robotics is a vast field in large scale industries and commercial sectors. Mapping the surroundings is a pivotal problem in mobile robotics. Robot manipulators have evolved from the traditional structure of being bolted down to the assembly line to being mounted on a mobile platform. The flexibility is greatly improved now with the ability to move around and perform the required tasks wherever it is mostly effective. As robotic technology continues to advance, robots are becoming capable of performing ever more complex tasks. Robotic workers never get tired, do not need to be paid and can be made to perform even the most dangerous tasks without concern. The Tasks won't produce any errors in the system if right components are used in the robot. This can minimize the false detection and error in accuracy and continuity. The invention provides a wheel type movable monitoring robot in a wireless network as media. A camera is carried on the robot to collect video information, and a developed upper computer master control program is used for controlling moving of the robot through the wireless network to collect relevant video information; meanwhile, abundant sensors on the robot can collect and return information of site conditions, and the movable monitoring robot can be applied to movable monitoring or seismic hazard search and rescue and other special work. The Purpose of this project was to combine several existing technologies and hardware controllers, into a system that can perform the job of a security and surveillance at the maximum efficiency.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015308 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRO-ACTIVE ALERTING SYSTEM AND METHOD FOR RAPID RESPONSE EMERGENCY VEHICLES

(51) International classification :G08G0001096500, G08G0001087000, H04W0004900000, H04W0004440000, G06Q0010080000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
A pro-active alerting system and method for rapid response emergency vehicles like ambulances, fire trucks and police cars alerts the drivers of other vehicles on road to free the emergency lanes well in time based upon the time displayed on LED displays and siren sound intensity for easy and minimal delay passage to emergency vehicles carrying time-critical patients as well as services to emergency sites. The system consists of transceiver devices and touch panels installed in the emergency vehicles, server and controller installed at central office, and LED displays, sirens and microcontrollers installed on roads. The server keeps checking status of emergency vehicles, which activates their emergency service transceiver(s), to provide optimal route choices, and controls the on road infrastructure to alert other vehicle drivers. It gives quick passage to the emergency vehicles, therefore, saves a lot of valuable time, lives, resources and infrastructure.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015310 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE FRAMEWORK FOR AGRICULTURE CROP YIELD PREDICTION

(51) International classification :G06N0003040000, G06K0009000000, G06K0009620000, G06N0003080000, 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
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(57) Abstract :
Advancements in satellite technologies in rendering high quality field images and Artificial Intelligence (AI) in terms of machine learning (ML) and deep learning paved way for possibility to leverage systems towards precision agriculture. This invention is meant for having architecture required for automatic crop yield prediction based image processing and AI methods. The current invention is an AI enabled framework used to capture crop areas automatically and analyse the vegetation index and other vital parameters of crops in order to estimate crop yield. The current invention has different modules such as image capture module, data analytics module and visualization module. The image capture module takes help of agriculture satellites launched by ISRO in order to have high quality graphical imagery of specific crop. The data analytics module has Convolutional Neural Network (CNN) based deep pipeline for processing data in order to estimate crop yield. The visualization module takes care of the presentation of the outcomes of the invention. The deep learning model is equipped with pre-trained models with transfer learning to pave way for better prediction of crop yield. The current invention is beneficial to many stakeholders such as farmers, agricultural departments, governments, agricultural universities, researchers and academia.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015316 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FABRICATION OF PLANT BASED NANOMATERIALS FOR WASTEWATER TREATMENT

(51) International classification	:C02F0101300000, C02F0001280000, A61K0031650000, A61K0009000000, B01J0020200000
(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
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(57) Abstract :
The prepared biomaterials were allowed to investigate various characterization studies (UV, FTIR, SEM, XRD, EDAX, DSC & TGA) and confirmed the presence of targeted molecules and evaluated various functional group with different elements. The morphograph exhibits fibrous nature with improved surface area. The antibacterial activity was performed by broth dilution method and agar well diffusion method against E.coli, B.cereus, S.typhi and S.aureus. For enhanced activity was observed by TC-Ch-AgNPs-W > TC-Ch-AgNPs > TC-W > TC-Ch > TC-AgNPs > W > TC > Ch > AgNPs order. The increased activity was observed against E.coli by TC-Ch-AgNPs-W. In addition the antioxidant activity was performed and compared with all other samples. The TC-Ch-AgNPs-W posses increasing percentage of inhibition which was confirmed and compared with standard ascorbic acid. In this study, the results thus obtained have revealed that TC-Ch-AgNPs-W has sufficient potential due to acquired properties to be employed as a sorbent for the removal of organic pollutants from water environments. The maximum sorption of MB onto TC-Ch-AgNPs and TC-Ch-AgNPs-W was found at pH 7, sorbent dose 0.5 g/L and particle size 3 mm. The sorption equilibrium between MB and TC-Ch-AgNPs-W was established in 30 min. From the results obtained, it concluded that the prepared TC-Ch-AgNPs and TC-Ch-AgNPs-W has successfully improved the sorption properties of the bead. Hence, bulk availability of TC-Ch-AgNPs-W at a local level boosts its applicability as a cost-effective and highly economical source of cleaner production. In addition it also may offer different bioremediation processes with eco friendly nature. Further, more new insights into the development of eco-efficient and effective sorbents for the removal of stringent organic pollutants. In addition it also may offer different bioremediation processes with eco friendly nature.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015394 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT Driven Automated Water Quality Monitoring and Removal of Unpleasant Smell from Wastewater System for Smart City

(51) International classification :G01N0033180000, C02F0001000000, H04L0029080000, G01D0021020000, G01N0027403000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Water pollution has become one of the most serious threats in recent years, as drinking water has become contaminated and polluted. Polluted water can cause a variety of diseases in humans and animals, affecting the ecosystem's life cycle. If water pollution is detected early on, appropriate measures can be implemented, and critical situations can be avoided. To ensure a steady supply of pure water, the water's quality should be monitored in real time. With advancements in sensors, communication, and Internet of Things (IoT) technology, smart solutions for monitoring water pollution are becoming increasingly important. The work is divided into two sections, the first of which is hardware and the second of which is software. The hardware includes sensors that help to measure real-time values, an Arduino ATMEGA328 that converts analogue values to digital, and an LCD that displays sensor output. A Wi-Fi module connects the hardware and software. ATMEGA328 includes ADC and Wi-Fi modules. The developed model is tested with three water samples, and the results are sent to a cloud server for further action. The water quality parameters are checked one by one and updated in the cloud server; the values are also displayed on the LCD display.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015417 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CROP DISEASE IDENTIFICATION AND DIAGNOSIS USING MACHINE LEARNING AND SOIL SENSORS

(51) International classification :G06K0009000000, G06N0003040000, G06K0009620000, G06N0003080000, G06T0007000000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The system is a crop disease identification and diagnosis system which is based on computer vision and machine learning. The system consists of a camera with picture of the crop taken within a mobile / web app. The image is sent to the remote system consisting of deep learning neural network with CNN consisting of crop images, diseases and remedies to be provided for the same. The image is analyzed, classified for a particular disease / no disease. If the crop is classified to have one or more diseases, the remedies for the same are shared back to the user with possible opportunities for fertilizers as well.

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015425 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NOVEL PROCESS TO DETECT FRESHNESS AND QUALITY OF MILK AT DAIRY

(51) International classification	:G01N0033040000, A01J0005013000, G01N0033060000, A21D0002160000, A23K0050100000
(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

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(57) Abstract :
We analyzed the current process in dairy that when a milk man pours the milk to the container, once after detecting all the parameters of the milk it is then sent to one large container where this milk gets mixed with the rest of the milk. It would be difficult to differentiate between good milk and bad milk. So, it is necessary to check the freshness of milk initially. In small villages costly milk analyzers are not used and hence quality check may take more time and farmers have to wait in line for hours. To reduce manual work and for faster milk collection we need to replace the existing system which is of low cost. This system is designed to check the freshness of milk using a pH sensor and Arduino Uno for sending data to the database. The proposed system is going to detect whether the milk meets the standard quality. The milk quality is decided by measuring Fat content of milk, density and solid content of milk. According to quality, payment is done to farmers. Milkman should pour the milk into the small container where the quality check of milk is done. The pH sensor is used to measure the pH value and density of milk and CLR of milk is obtained from Lactometer. Once these values are obtained, it is compared with standard values to check if milk is good or not. If milk is good then the user can pour the milk to a large container else the user is asked to carry back the milk. After this process, the user is notified with the summary of data through SMS and all the data is added to the database. This system is an efficient tool for detecting adulteration of milk based on variation in obtained values of pH and SNF content of milk from their standard values. The main aim of this system is to provide measurement of milk parameters in low cost and in an efficient way.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015501 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A system and method for the prediction of necrosis in ovarian cancer tissues using gene expression data

(51) International classification :G16B0025000000, G16B0040000000, C12Q0001688600, G06Q0010040000, G01N0033574000
(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
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(57) Abstract :
Abstract Title: A system and method for the prediction of necrosis in ovarian cancer tissues using gene expression data A system(100) and method for prediction of necrosis in ovarian cancer tissues using gene expression data is comprising of: Gene Expression input(101), Input device/interface(103, 104,105,114), output device/interface(103,104,105,114), Prediction subsystem(106), and Continuous training subsystem(108). The prediction method(106) is comprising steps of: 1.Collecting gene expression data from user. 2.Pre-processing of input dataset and converting it to CSV format. 3.Predicting necrosis level using prediction subsystem(106). 4.Provide end-user predicted necrosis level(109). 5.Provide explanation of related genes for predictions for that specific patient using model-agnostic methods like SHAP and LIME, 5.Provide predicted data to continuous training sub system(108). This subsystem(108) is provided for data handling and data training. It helps in improving accuracy of the ML model(106) by training the algorithm. The validated data(107) from output client and gene expression from multiple health centres(113) are inputted(in CSV format) to training subsystem(108) to call for Global related genes(112) affecting the necrosis level in ovarian cancer tissues. Figure of Abstract: Fig. 1

No. of Pages : 41 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015510 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PADDY CUTTING APPARATUS

(51) International classification :B26D0003160000, B26D0007260000, B26D0003000000, E04D0015000000, F16D0041064000
(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

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(57) Abstract :
A paddy cutting apparatus (100), comprising: a base (102) adapted to provide a support to components of the apparatus (100); a pair of handles (104a-104b) attached to a top end of the base (102), wherein each of the pair of handles (104a-104b) is held by a user to move the apparatus (100); wheels (108a-108c) attached at a bottom end of the base (102); a circular plate (120) affixed onto the base (102) of the apparatus (100), and is adapted to rotate at a first pre-defined speed by using a first motor (116), wherein a rotation of the circular plate (120) enables an angular rotation of a rod (122) to perform a reciprocating motion; and a cutting blade (126) attached below at a first end of the rod (122), wherein the cutting blade (126) is rotated in a clockwise direction by using a second motor (124) to cut paddy crops

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015518 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HIGH PRESSURED COMPRESSED AIR PRODUCTION FROM RENEWABLE EXTERNAL FORCES

(51) International classification :F03B0017020000, E04F0015020000, B29C0044020000, F03G0003000000, F17C0013080000
(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
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(57) Abstract :
the compressed air is pressurized by an external force, the weight at the bottom of the cylinder is moved upwards one by one using the gearbox. similarly, all weights are moved to the maximum height of the cylinder by external force through gearbox. after all the weights of the piston have reached the maximum height, the container is filled with compressed air or suitable gas. all collected heavyweights of the piston are released downwards at the same time, so, the effect of the heavyweight is that the compressed air is highly compressed again and again. finally, highly compressed air is collected through an air container for different applications or used directly for different applications like generating electricity.

No. of Pages : 10 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015522 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SYSTEM FOR POWER TRANSMISSION TOWER THROUGH INTERNET OF THINGS

(51) International classification :H04L0029080000, H04W0004700000, H02G0001020000, H04W0004029000, G06Q0050060000
(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
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(57) Abstract :
[033] The present invention discloses a system for power transmission tower through Internet of Things. The system includes, but not limited to, an ultra-high-tension power transmission tower connected with intelligence IoT based computing device, comprise server end and some portable terminals. Further, the portable terminal is connected with the server end by an IoT network, and further the server end comprises the IoT based web application server that links to each other with host exchange respectively, database server, and the line inspection server. Furthermore, the database server and the line inspection server to be provided with the GPS locating unit in the portable terminal, wherein the ultra-high-tension power transmission tower bar information that connected with the database server internal memory contains pre-rendered electronic chart. Accompanied Drawing [FIG. 1]

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015524 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Intelligent Home Automation Using IoT and Machine Learning

(51) International classification :H04L0012280000, G05B0015020000, A61L0002100000, G08B0013196000, G09B0007000000
(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

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(57) Abstract :
Home Automation may be utilized to keep a house in a pleasant state. The less the user has to engage with the system, the easier it is to use. To automate the room's equipment and peripherals, you may utilize faces as a key. Pre-selected gadgets turn on automatically as soon as a person enters the room, so there's no need to be manually activated. Consumers may choose which gadgets they wish to turn on during the procedure. Users must practice recognizing their faces to use the system. Individuals may sign up for their customizing options. Using smart approaches and a Raspberry Pi as a processing unit for data retrieved from the camera, this system shows how IoT may be used in a home automation system. The graphical user interface on the Raspberry Pi is used to program the system.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015543 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A System And A Method For Measuring Mass Properties Of Objects

(51) International classification :F16M0013020000, G01M0001100000, G05D0001080000, A61B0005160000, E02F0009120000
(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

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(57) Abstract :
A system for measuring mass properties of an object is disclosed. The system comprises a base member and a platform supported on the base member. The base member is adapted to movably support the object. Further, the system comprises an interface adaptor disposed on the platform and adapted to movably mount the object on the platform. The interface adaptor is adapted to be rotated about a vertical axis with respect to the platform. The system comprises a bearing assembly disposed below the platform and adapted to oscillate the platform about a horizontal pivot axis to calculate at least one of a moment of inertia of a total mass, suspended on the bearing assembly, about the horizontal pivot axis and a moment of inertia of the total mass about an axis passing through a centre of gravity of the total mass. The interface adaptor is rotated about the vertical axis to calculate at least one of three-dimensional coordinates associated with the centre of gravity.

No. of Pages : 34 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015569 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IoT and Artificial Intelligence based continuous monitoring for bridge safety by using health monitoring technology.

(51) International classification	:G06Q0010060000, G01D0021020000, G01M0099000000, G06Q0010080000, A61B0005000000
(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

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(57) Abstract :
IoT and Artificial Intelligence based continuous monitoring for bridge safety by using health monitoring technology. Abstract: On a daily basis, an increasing number of disasters occur, and they can strike anywhere in the world at any time. According to current hypotheses, this occurrence is caused by local climate cycles. Numerous infrastructure, including bridges, will be damaged as a result of these types of disasters, placing human lives at jeopardy. This method resulted in the establishment of the bridge monitoring system, which is used to continuously verify and monitor the bridge's status. The monitoring system enables us to obtain real-time information about the bridge's present conditions, such as wind speed, temperature, weight, and other factors. An alarm can be triggered in the case of a natural disaster based on sensor data that are compared to predefined values.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015570 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : The effect of Remuneration on the Performance of employees on the Private sector

(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0030020000, G06Q0050000000, F25D0023020000
(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

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(57) Abstract :
The effect of Remuneration on the Performance of employees on the Private sector Abstract: Employee rewards contribute to the achievement of operational and straightforward organisational goals by ensuring that a company hires individuals who are well-trained and prepared to do their assigned jobs. A strong incentive system increases job satisfaction and performance, which translates into improved output for the organisation. New employees seek employment with the organisation because each customer demands one, and thus they arrive. Private businesses are already experimenting with novel concepts and maximising the value of social and economic infrastructure in order to avert future severe societal disasters. Human resource departments had a huge impact on how well a business produced money and operated. This study will benefit both employees and organisations by assisting them in understanding how remuneration affects their work and interpersonal connections. We learned how to submit, how to increase employee pay, and how critical it is to consider shareholder and customer performance in this project.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015571 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WSN, AI, based real time Vehicle Automation and Enhanced Safety, Security and Tracking System by IoT Networks

(51) International classification :G06K0019070000, H04L0029080000, B60R0025040000, G06N0020000000, B60R0025330000
(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

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(57) Abstract :
WSN, AI, based real time Vehicle Automation and Enhanced Safety, Security and Tracking System by IoT Networks Abstract: The future of VSS is changing as cutting-edge technology evolves into smart frameworks that provide a variety of benefits. As a result of this steady progression, the IoT is the most promising innovation has changed people perceive the world around them. The Internet of Things enables the development of a wide range of devices capable of exchanging information and performing a variety of tasks. Smart Anti-Theft Tracking Systems (SVSS) are a type of anti-theft tracking system (iATTS). The goal is to develop a remote intelligent vehicle security framework that is lightweight, easy to maintain, extensible, and adaptable. To accomplish this, RFID, GPS, GSM, and cloud-based communication will all be used. This will also be done with the help of the choice tree. This framework is to send vehicle data to the owner via SMS or a mobile application, depending on the model. By using the above advancements as a sophisticated vehicle security key, it is possible to remotely control a vehicle from afar using an SMS or an application. SVSS can benefit many vehicles around the world, and it is designed to be simple and easy to install so that it can be used to prevent, identify, and countermeasure vehicle burglary.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/03/2022

(21) Application No.202241015602 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRESSURE SENSITIVE ADHESIVE TAPE BASED FLEXIBLE STRAIN SENSOR AND METHOD OF PREPARATION THEREOF

(51) International classification :C09J0007380000, C09J0007210000, G01B0007160000, H01L0029840000, G01B0011160000
(86) International Application No :PCT//
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
PLEASE SEE THE ATTACHED SPECIFICATION

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015624 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : LABEL FREE ELECTROCHEMICAL PAPER BASED IMMUNOSENSOR FOR THE DIAGNOSIS OF VITAMIN D DEFICIENCY

(51) International classification :G01N0027327000, B82Y0015000000, C12Q0001000000, G01N0033820000, G01N0033569000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
Now-a-days people have the least time to take of their health due to their busy schedules. In order to avoid infections and virus one need to have healthy body. Nutritional foods are needed to taken in the part of their life. Vitamins play an important role in human body. Vitamin D plays a crucial role for immunity, bone strength and in order to avoid many infections and virus. The proposed invention is related to detecting Vitamin D deficiency in a cost effective and to give accurate results. The proposed approach is the construction of a label-free electrochemical immunosensor for the rapid recognition of 25(OH)D3 biomarker in serum samples by using a ferrocene redox mediator as a distinguishable signal label. When GNRs were dropped cast on the SPE electrode surface, then Ab-25(OH)D3 tagged Fc-CHO was prepared as an electrochemical probe and immobilized on the GNRs modified SPE surface. Due to the tagging of antibodies with ferrocene, the developed immunoassay can lessen the assay time, decrease the incubation periods, and also reduces the assay cost. The fabricated immunosensor showed a broad linear range for 25(OH)D3 from 1-100 ng/ml with a detection limit of 0.1 ng/ml meeting the clinical analysis needs. The reproducibility, repeatability, and long-term stability of the present immunosensor are very acceptable. The proposed immunosensor display's good bio-specificity and selectivity for the measurement of 25(OH)D3 and effectively applied in human serum samples for the detection of 25(OH)D3.

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015648 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Development of a transition metal based organo-metallic complexes used as catalysts for curing of benzoxazines at low temperature

(51) International classification :C08J0005240000, C07D0265160000, C08F0004760000, C07D0265360000, C04B0035626000
(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

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(57) Abstract :
The present invention relates to the production of new transition metal complex catalyst to obtain low temperature cure benzoxazines in order to fabricate and interface benzoxazines with low melting substrates to obtain high performance products for different industrial and engineering applications. The iron, zinc, nickel and cadmium based metal complexes developed in the present invention facilitates polymerization of benzoxazines at lower temperature when compared with that of neat benzoxazines. The incorporation of different types of transition metal complex catalysts with benzoxazine sample lowers the cure temperature to an appreciable extent according to the nature and weight concentration of the catalysts.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015668 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ROOM AUTOMATION SYSTEM USING IOT

(51) International classification	:H04L0029080000, G99Z0099000000, G01D0021020000, G05B0019042000, G07F0017200000
(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

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(57) Abstract :
ABSTRACT This work aims to solve problems of common peoples in day to day life. Atomizing home with using node MCU which is Wi-Fi model and using blynk app. Blynk app is used as third party app. It provide open source to user make to design automation in less price. Different sensors are connected to node MCU and can operate from any part of world with help of Blynk app. This makes life of common man very easy. These days, the web need ended up a normal interface that a significant number of gadgets use in place will improve the everyday life about numerous individuals. Web aides us to get quick result for huge number of issues capable to interface starting with any of the remote spots which contributes with general expense decrease furthermore vitality utilization. Home mechanization might make portrayed as introduction for innovation organization in the home environment which provides straightforwardness which is more secure with its occupants. Towards utilizing the innovation of web for Things, those examinations Furthermore execution about home mechanization have got extra Normal. Different remote advances which has the capacity to help some sort of remote information transfer, sensing also management like Bluetooth, Wi-Fi and other cell division networks would be used to enter abundant levels for discernment inside the home. It might provide an interface with home mechanization itself, by means of mobile phone or alternately the internet. Now days all have busy life for e.g. person staying somewhere for job and another someone comes and if you having an important meeting can't pick them and they don't have keys of home. This will put you in trouble. So with help of this project sitting in office person can open home for our people. If you are working whole day in office and after your office work you don't want to do household works then home will do its own works like task of filling water, charging devices in absence of homeowner. If you come home and your freeze will tell you what you can make in eating without opening it from the contents of food which are present in is then how awesome. If our daily life will become easily and less complex it will be than the golden era of technology. Methodology used are: IoT platform node MCU is open source, Blynk is a Platform with iOS and Android apps to control Arduino, Raspberry Pi and the likes over the Internet, Server is an Open-Source Netty based Java server, responsible for forwarding messages between Blynk mobile application and various microcontroller boards (i.e. Arduino, Raspberry Pi. Etc). A small plug or wire that can be connected between different points in an electronic circuit in order to alter an aspect of a hardware configuration compare DIP switch. Arduino Ethernet shields 2 associates your Arduino of the web on minor minutes. Barely plug this module onto your Arduino Board, associate it on your system with a RJ45 link. Also, take after a couple straightforward steps to start regulating your reality Canada wild rye drug store. When all sensors are connected to node MCU will use blynk app its used as third party app. Blynk app is open source for all . Creating an app is tough think so we take help of blynkapp . With help of WIFI Node MCU will be connected to blynk app. When will on it will get messages on our screen which ever sensor will act we will get report on our screen. For e.g. When in home fire will take place then fire sensor will work on with the help on internet we will get all information on our screen.

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(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015673 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN IMPROVED METHOD OF PREPARATION OF NANOFERTILIZERS LOADED WITH PLANT NUTRIENTS

(51) International classification :A61K0009000000, A23L0033160000, A61K0031375000, A61K0033220000, A01N0059060000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
[027] The present invention discloses an improved method of preparation of Nano-fertilizers loaded with plant nutrients. The nutritional supplement composition suitable for oral administration, comprising, but not limited to, one or more plant nutrient comprises nitrogen, calcium, potassium, phosphorus, sulphur, magnesium, boron, manganese, iron, chlorine, copper, molybdenum, zinc, its precursor or its combination. Further, an effective amount nanofertilizers loaded with plant nutrients with nitrogen as per a first volume of aqueous solution; an effective amount of nanoparticulated phosphorus as per a first volume of aqueous solution; an effective amount of nanoparticulated potassium as per a first volume of aqueous solution; wherein the aqueous solution is ultrapure water.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015686 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Blood Donation App

(51) International classification :H04L0029080000, G16H0010600000, G06Q0050220000, G16H0040670000, G06Q0010100000
(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

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(57) Abstract :
ABSTRACT Blood donation is a life saving care. It is very much essential to help patients survive surgery, cancer patients, traumatic injury and chronic illness. It is an activity carried out voluntarily. The requirement of blood is constant but only 3 percentages of people donate blood every year. People are facing problem to get the required group of blood when actually they are in need of it. They invest their precious time in moving into different blood bank in search of blood. It may cause the patient to move into a critical condition. Our Blood Donation App focuses on helping the needy by making the search for blood donor easier and quicker. It will definitely reduce the rate of death which may cause due to unavailability of blood. Our app works as a social media managing the blood donor and blood seeker only. Our app allows both blood donor and seeker to registered. During registration vital information like details of the person, contact and health condition are stored. Whenever a person search for a blood donor he can easily get the contact information of a blood donor nearby his/her place. Our app will broadcast message if someone is in the need of blood. It also create awareness among the user when to donate blood and when to not. For this the health condition of a donor is a vital information hence to be inputted correctly. Our app also reminds the user already registered to update their status in a regular basic. Any post from the user will be viewed by all registered user. We have developed our app using appery.io. We have used appery.io for frontend development as well as backend. Appery.io is simple, strong and integrates with any backend. And we have used it as backend because The Appery.io platform provides a cloud database to store our app data. It allows writing custom app code using JavaScript that will execute on the Appery.io server. The Appery.io Push Notifications feature allows sending push messages to users who have installed our app. API Express makes it easy to expose external data source via REST APIs. Once the data sources are exposed, we can easily build a mobile app with those APIs and in turn with the external data sources. The major challenge in our app is, as the healthcare industry is a very crucial updating the correct health information (specially for blood donor) is mandatory else it may lead to serious problem. On the other hand we have created this app with the believe that blood donor are really persons with novel thoughts. So the said problem may not be a hinder while using the app.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015720 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : Autonomous Electric Vehicles Auto Monitor and Control

(51) International classification	:G05D0001020000, G01S0017931000, G01S0017860000, A61N0001050000, G08G0001160000
(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

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(57) Abstract :
A vehicle's autonomous controller is a type of computer program. The controller is equipped with a CPU that is programmed to accept position data from position sensors and to create operation control signals that define an updated travel route for the vehicle to follow. In addition to position sensors, the controller also has operation control mechanisms and a programmable interface to facilitate communication between these components. The controller is programmed to normalize the position sensor inputs to the processor and create operation control signals that are compatible with the position sensor inputs and applied as inputs to the operation control mechanisms. The processor and the programmable interface define it as a self-contained device that may be configured to operate with a range of different remote sensors and various remote operation control methods.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015804 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A BROADBAND OPTICALLY TRANSPARENT METAMATERIAL ABSORBER SELF-ENERGY HARVESTERS

(51) International classification :H01Q0015000000, H01Q0017000000, G08G0005000000, H01B0003000000, G10K0011172000
(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
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(57) Abstract :
TITLE: A BROADBAND OPTICALLY TRANSPARENT METAMATERIAL ABSORBER SELF-ENERGY HARVESTERS APPLICANT: KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES ABSTRACT The present invention discloses a Broadband Optically Transparent Metamaterial Absorber for self-energy harvesting in weather monitoring, air traffic control devices/sensors, defense tracking devices and the like. The Broadband Optically Transparent Metamaterial Absorber of the present invention is adapted to absorb wide range of X band and comprises of a top conducting layer, a flexible transparent middle layer and a bottom conducting layer. The Broadband Optically Transparent Metamaterial Absorber is characterized in a. the top conducting layer designed in Convex combined along with toothed stem structure and comprises of unit cell of Circular Ring Resonator surrounded by Step Impedance Resonator printed on top of the flexible transparent middle layer; b. the bottom conducting layer comprises of unit cell of stripped line Step Impedance Resonator printed on bottom of the flexible transparent middle layer;

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241015873 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : The Effect of the Global Financial Crisis on Few Macro Economic Indicators in India

(51) International classification :G06Q0040020000, G06Q0040000000, G06Q0040060000, G06Q0090000000, G06Q0010060000
(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
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Filing Date :NA

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(57) Abstract :
The Effect of the Global Financial Crisis on Few Macro Economic Indicators in India Abstract: This is precisely what occurred in August 2007, the start of America's subprime mortgage crisis. India's economy was assessed to have suffered little from the global financial crisis. (US). Until August 2008, the Reserve Bank of India (RBI) raised interest rates to cool the economy and slow GDP growth, which was clearly exceeding potential production growth and generating inflationary pressures. 1 However, when Lehman Brothers declared bankruptcy, the United States' financial crisis morphed into a global economic calamity, with an almost instantaneous impact on India's economy. Due to the unexpected halt in external credit flows, the money market's overnight interest rate has surged to more than 20%. As a result, the rate was maintained throughout the remainder of the month. Even if this is not true, it is a reasonable assumption that the global economic crisis continues to have an effect on the Indian economy. As a result of these considerations, this paper presents policy proposals to assist India in regaining its footing following the global financial crisis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/03/2022

(21) Application No.202241016026 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PV based battery monitoring system using Internet of things

(51) International classification :H02J0007000000, H04L0029080000, B60L0058130000, B62H0005200000, B60L0058120000
(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
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(57) Abstract :
The current invention provides a PV-based real-time battery management system for an electric vehicle using the Internet of things (IoT) and a method for using such a system. It should be noted that the system and method include, but are not limited to, an information acquisition unit and charging control unit integrated into a processing unit, which is comprised of an ice storing time unit, a microcontroller, a touch display unit with input device connectivity, and a charging control module. A wireless transport unit for connecting a host device is also included in the processing unit, which includes a battery level evaluator with a charging control circuit and a battery charging control circuit. Furthermore, the output of the single-chip microcomputer communicates with the touch display unit with input device connectivity. The single-chip microcomputer and the host device communicate using a wireless transport module, with the output of the single-chip microcomputer communicating with a charging control circuit.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/03/2022

(21) Application No.202241016027 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BIOAVAILABILITY ENHANCEMENT OF VINBLASTINE BY CURCUMIN COMBINATION

(51) International classification :A61K0009500000, A61K0031120000, A61K0009480000, A61K0009107000, A61K0031352000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
Vinblastine is an anticancer drug with very low oral bioavailability, due to P-glycoprotein (P-gp) efflux, gut wall and first pass metabolism. Curcumin is a known anti-inflammatory agent that possesses inhibitory actions on P-gp efflux and cytochrome P-450. The present invention provides the intestinal transport and oral bioavailability of P-gp substrate vinblastine after curcumin pre-treatment in male Wistar rats using in-situ single pass intestinal perfusion study. Oral pharmacokinetics was also studied after curcumin pre-treatment on vinblastine bioavailability. The apparent permeability was found to be higher statistically, in comparison to the control group where the intestine is pre-treated with curcumin. Vinblastine effective permeability was increased in the ileum, liver and brain of the curcumin pre-treated groups when compared with the group that received no pre-treatment. The peak plasma concentration and the area under the plasma concentration time curve increased significantly. A decrease in time to reach peak plasma concentration, clearance and elimination rate constant was observed in curcumin pre-treated rats.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/03/2022

(21) Application No.202241016074 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC HAND SANITIZER DISPENSER WITH OLED DISPLAY

(51) International classification :A61L0002180000, G16H0040200000, A47K0005120000, A61L0002000000, A61Q0017000000
(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

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(57) Abstract :
Sanitizer has been playing its role in preventing infectious diseases. However, its role is greatly enhanced in the ongoing Covid-19 pandemic situation. With the outbreak of Corona virus and other such invasions from outside, human beings across the globe suffered immensely. Human contact with anything has possibility of spreading virus such as Corona kind of viruses. Hence a contactless means of dispensing sanitizer is very important in avoiding possible spread of communicable diseases. The current invention has dispensing system that is contactless and alcohol-based hand sanitizer that promotes hygiene and prevents spreading disease-causing microorganisms. This sanitizer dispenser need not be operated manually by touching its handle or pressing button. Instead, it automatically senses human hand and dispenses controlled amount of the sanitizer on to the human hand and then stops automatically. The disinfectant fluid in human hand has potential to kill microorganisms and thus avoids spreading of infectious diseases. Once the dispenser gives sanitizer, it will be in a ready state for subsequent dispenses as needed. The invention is equipped with OLED that displays necessary instructions about the safety and hygiene acting as a show stopper which reminds people around to sanitize their hands regularly. This invention is beneficial to many stakeholders such as general public, healthcare professionals, healthcare workers, healthcare departments, hospitals, researchers and academia.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/03/2022

(21) Application No.202241016089 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVELOPMENT OF LOW-COST WATER PURIFICATION TECHNIQUES

(51) International classification :C02F0001280000, C02F0001000000, C02F0009000000, C02F0001440000, C02F0101200000
(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

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Address of Applicant :Assistant Professor Civil Engineering Department Government Engineering College Ramanagara ---------- ----------
4)Dr MOHAMMED YASEEN
Address of Applicant :Senoir Environmental Expert Shah Technical Consultants ---------- ----------

(57) Abstract :
Low Cost Water Purification Technique using the basic ideas of Slow Sand Filter, some locally available filter material like charcoal, bone char, sand, manganese modified sand, clay, rice husk, banana residue ash, anthracite and try to improve the methodology using the UV Filter, RO Filter, and Activated Carbon Filter mechanism. Main focus was removal of iron from surface water by adsorption and oxidation followed by precipitation technique. Among all the adsorption media used, manganese modified sand proved to be a good adsorbent in removal of iron. For oxidation followed by precipitation, the ash produced from banana residue was used which proved to give the best result in removal of iron and also was having the cheapest material cost. A ceramic membrane with locally collected clay and rice husk was prepared which also proved to be effective for removal of turbidity, but may be due to rigorous use of the filter or any manufacturing defect, there were cracks developed on its surface and was discarded for any further use.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/03/2022

(21) Application No.202241016155 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PROCESS FOR PREPARING METAL FREE NITROGENOUS ORDERED MESOPOROUS CARBON MATERIAL AND ITS PRODUCT THEREOF

(51) International classification	:B01J0029850000, B22D0011060000, H01M0010058000, C01B0021060000, C25D0013200000
(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

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(57) Abstract :
Please see attached specification

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/03/2022

(21) Application No.202244011802 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SELF-VENTILATING FOOTWEAR ASSEMBLY AND METHOD EMPLOYED THEREOF

(51) International classification	:A43B0007080000, A43B0003000000, A43B0013200000, H01L0029778000, A43B0023020000
(31) Priority Document No	:17524761
(32) Priority Date	:24/08/2021
(33) Name of priority country	:----------
(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

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(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards a self-ventilating footwear assembly comprising: one or more cylindrical and barrel shaped profile structures includes one or more spore structures, the one or more spore structures is configured to provide ventilation and protection to the foot of the wearer, and one or more conical shape profile structures integrating with the one or more cylindrical and barrel shaped profile structures and which is configured to connect an outer surface of a shoe vamp. The self-ventilating footwear assembly further comprising a hollow portion of the interior structure configured to allow the air passed through the one or more conical shape profile structures for providing both superior ventilation and protection to the foot of the wearer, and the specialized structures is configured to provide physical protection and shock absorption against object striking the top and sides of the wearer's foot.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202131012953 A
(19) INDIA
(22) Date of filing of Application :25/03/2021
(43) Publication Date : 25/03/2022

(54) Title of the invention : ADJUSTABLE SEATING, STANDING AND MOBILITY ASSISTIVE POSTURE CORRECTION DEVICE

(51) International classification	:A61G0005100000, A61G0005120000, A61H0003040000, A61F0005010000, A61G0005000000
(86) International Application No Filing Date	:NA :NA
(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

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2)HALDER, MAYA

(57) Abstract :
Adjustable seating, standing and mobility assistive posture correction device (100) of the present invention is a multifunctional assistive device used for supportive, therapeutic and rehabilitative purpose to cerebral palsy children, persons with neurological abnormalities, down's syndrome, spina-bifida, muscular dystrophy, brain injury, neural disorder, geriatric issues or the like. The device (100) comprises a frame or a platform (102), a base (104), a back rest (106), a cut-out tray (118), a pommel (124), a foot rest (114), a pair of lateral guards (120), and a recliner mechanism (110) attached to back rest (106). The platform (102) provides stability to the device (100). The device (100) comprises wheels (126) to assist mobility while acting as a sitting cum standing device with posture correction capability by adjusting width, depth, height and inclination of the device (100).

No. of Pages : 24 No. of Claims : 15

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.202011040288 A

(19) INDIA

(22) Date of filing of Application :17/09/2020

(43) Publication Date : 25/03/2022

(54) Title of the invention : ANTI-GRAFFITI COATING COMPOSITIONS

(51) International classification	:C09D0005000000, C08L0083160000, C08K0005540000, C08K0005544000, C10M0107500000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)Singh Additay
2)Sen Sanat Kumar
3)Chowdhury Anasuya Roy

(57) Abstract :
The present invention relates to curable coating compositions which when cured are substantially transparent and exhibit resistance to graffiti markings and particulate buildup. In particular, the coating compositions are one component, isocyanate free anti-graffiti coatings comprising urethane modified poly(alkoxy silane) binder resin curable at ambient temperatures.

No. of Pages : 26 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2020

(21) Application No.202011040324 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A CAM PHASING UNIT FOR IC ENGINES

(51) International classification	:F01L0001344000, F01L0001053000, F01L0001047000, F02D0035020000, F01L0001020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)MISHRA, Rakeshkumar

(57) Abstract :
A cam phasing unit for an Internal Combustion (IC) engine is disclosed. The cam phasing unit includes a stator assembly having a plurality of lobes defining a plurality of hydraulic chambers between consecutive lobes from among the plurality of lobes. Further, the cam phasing unit includes a rotor coaxially disposed within the stator assembly and adapted to be coupled to a camshaft of the IC engine. The rotor includes at least one vane radially extending from the rotor and adapted to move within one of the plurality of hydraulic chambers. Further, the cam phasing unit includes at least one resilient member coupled to one of the plurality of lobes of the stator assembly and the at least one van positioned within one of the plurality of hydraulic chambers. The resilient member is adapted to transmit resilient force to the rotor.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2020

(21) Application No.202011040330 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD AND A SYSTEM FOR MONITORING SPREAD OF TRANSMISSIBLE DISEASES

(51) International classification	:G06K0009000000, G06F0003048400, G06F0003048200, H04N0013204000, G06F0011070000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)GOEL, Arun
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3)CHAHEL, Rahul

(57) Abstract :
A method for monitoring spread of transmissible diseases is disclosed. The method includes receiving at least one video stream associated with an environment having a plurality of objects from at least one electronic device. Further, the method includes identifying at least one object from among the plurality of objects. The at least one object demonstrates at least one symptom associated with a transmissible disease. The method includes tracking movement of the identified object based on the captured video stream. Further, the method includes monitoring interaction of the identified object with at least another object from among the plurality of objects based on the movement of the identified object.

No. of Pages : 33 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2020

(21) Application No.202011040350 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ENERGY AND IMMUNITY BOOSTING NUTRACEUTICAL COMPOSITION

(51) International classification	:A61K0036530000, A61K0036470000, A61K0036534000, A61K0036670000, A61K0036540000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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9)GARG, Meenu
10)KAUR, Gurjinder
11)PURI, Deepika
12)DAHIYA, Neelam
13)SINGH, Kulwinder
14)GOYAL, Rakesh
15)SINGH, Kamaljeet

(57) Abstract :
The present disclosure relates to the field of nutraceutical compositions. Specifically, the disclosure is directed to a nutraceutical composition for boosting energy and enhancing immunity of a subject comprising Phyllanthus emblica, Morus rubra, Ocimum tenuiflorum, Cinnamomum verum, Piper nigrum, Elettaria cardamomum, Psidium guajava, and Mentha arvensis L. The disclosure further relates to a process of preparing the composition.

No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2020

(21) Application No.202011040351 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NUTRACEUTICAL TEA PRECURSOR COMPOSITION

(51) International classification	:A61K0036610000, A61K0036906800, A61K0036484000, A61K0036670000, A61K0036906400
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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12)DAHIYA, Neelam
13)SINGH, Kulwinder
14)GOYAL, Rakesh
15)SINGH, Kamaljeet

(57) Abstract :
The present disclosure relates generally to compositions for preparing tea that enhance the immunity of a subject. More specifically, the disclosure is directed to a nutraceutical tea precursor composition comprising tea, Syzygium aromaticum, Cinnamomum verum, Glycyrrhiza glabra, Zingiber officinale, Ocimum basilicum, Elettaria cardamomum, Pimpinella anisum, and Piper nigrum. The disclosure also relates to a process of preparing the same.

No. of Pages : 21 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202011040399 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SMART DINING TABLE SYSTEM

(51) International classification	:A47B0031000000, A47B0031020000, A47B0013080000, A47B0011000000, G06Q0050120000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(57) Abstract :
An smart dining table system (500) provided, which is IoT based and includes a remote controller module (503) configured to connect and update a master database, a user I/O interface (502) and a vendor I/O interface (504) and to control and operate a plurality of dining tables (10, 20,….n). Every dining table (10) comprises multiple human body sensors (5) to sense the sitting position of customers. Every dining table (100) comprising multiple rotatable pads (101) to place a plurality of serving cups (200) corresponding to multiple sitting locations. A rotatable pad (101) is surrounded by a spill-proof ring (102) that moves in an upward direction (A) to a to a predefined height. The rotatable pad (101) rotated to an angle (B) to bring a serving cup handle (200a) towards a customer. A rotatable pad (101) comprises a temperature sensor (7) and a heater (8). The induction heater is switched ON when temperature of a base of the serving cup is below a predefined temperature.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202011040476 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WINDSHIELD OF VEHICLE

(51) International classification	:B62J0017040000, F16D0023120000, B60R0001040000, F21V0029760000, B62J0001080000
(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

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(72)**Name of Inventor :**
1)SINGH, Ashutosh Pratap
2)MANSOORI, Mahmood Mohammad

(57) Abstract :
A windshield assembly (200) of a vehicle (100) having a frame (103), and a front fairing (125), is provided. The windshield assembly (200) comprising: a first support bracket (204) connected to a head tube (130); a second support bracket (202) connected to the first support bracket (204), the second support bracket (202) includes a vertical slotted plate (206); a guiding stay (208) connected to the second support bracket (202), the guiding stay (208) includes a slot (210); a windshield member (300) movable with respect to a front fairing (125); a windshield rear support member (310) connected to a rear side of the windshield member (300) facing the frame (103), a base plate (312) extending outwardly from the windshield rear support member (310), a set of guiding members (314a, 314b), extending upwardly from the base plate (312), an actuator lever (320), the actuator lever (320) comprises an engaging portion (322).

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202011040477 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : LIGHTING DEVICE OF VEHICLE

(51) International classification	:F21S0043140000, F21S0043310000, F21S0043200000, F21S0043270000, B60Q0001260000
(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

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1)priyanka
2)SHARMA , Rohit

(57) Abstract :
A lighting device (200) of a vehicle (100) is disclosed. The lighting device comprising a housing (202) and an outer lens (210) coupled to the housing (202). A printed circuit board (204) includes at least one light source (204a, 204b, 204c) for irradiating light towards the outer lens (210). An inner lens (206) removably coupled with the printed circuit board (208) with at least one engaging means (208), wherein the inner lens (206) sandwiched between the outer lens (210) and the housing (202).

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202011040482 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HAND CLOCK FLUID DISPENSING DEVICE

(51) International classification	:A61M0005142000, B05C0005020000, B65D0083200000, H01M0016000000, A61M0005140000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)PRIYARANJAN SINGH

(57) Abstract :
The present subject matter relates to a hand clock fluid dispensing device (10) comprising a housing (2) formed with a connection point (5); a wrist belt (1) attached through the housing (2) to wear the user on hand; a hand clock case (3) connected through the connecting point (5) of the housing (2); a hand clock shutter (4) adapted to position on the hand clock case (3); a plurality of scrolled chambers (6) connected in the housing (2) such that the scrolled chambers (6) are internally connected through a connecting shaft (8) which provides linear rotation to the scrolled chambers (6); and a spring mechanism (9) mounted to the scrolled chambers (6). Further, the spring mechanism (9) is configured to provide upward and downward motion to the scrolled chambers (6) using a scrolling mechanism therefore, partition of the scrolled chambers (6) is to remain open and close.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020
(21) Application No.202011040529 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD AND SYSTEM FOR PERFORMING OPERATIONS ON ELECTRONIC DEVICES IN AN IOT ENVIRONMENT

(51) International classification	:H04N0021422000, H04W0004700000, G06F0012085500, H04N0021410000, H02J0050100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)SHARMA, Ankit
2)PRAJAPATI, Manish

(57) Abstract :
The method (600) of performing operations in an IoT environment comprising a plurality of electronic devices is disclosed. The method includes receiving a request for performing a second operation on a first electronic device, concurrent to an ongoing first operation on the first electronic device. The method includes determining whether performing of the second operation would result in stalling of the first operation. The method includes searching the plurality of electronic devices to select a second electronic device, in response to determining that performing of the second operation would result in stalling of the first operation. The method includes transmitting an operation request to the selected second electronic device for performing one of the first operation and the second operation on the second electronic device, wherein the second operation is performed in conjunction with the first operation.

No. of Pages : 41 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202011040547 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HEALTH CARE SYSTEM AND DEVICE FOR CERVICAL MASSAGE

(51) International classification	:G06F0003010000, A61B0005000000, G06F0001160000, H04L0029080000, G16H0040200000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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2)MALHOTRA, Shivani
3)KUMAR, Amit
4)DUTTA, Rubina

(57) Abstract :
The present disclosure pertains to a health care system (100) and a device 106. The system (100) includes a wearable device (106) adapted to be worn by a user and configured to communicatively couple with one or more mobile computing devices (102). The wearable device (106) includes a set of vibrational units (202) removably coupled with the wearable device (106) and configured at predetermined positions, a control unit (206) operatively coupled with the set of vibrational units (202) and the one or more mobile computing devices (102) , where the control unit (206) is configured to receive a first set of signals from the one or more mobile computing devices (102), where the first set of signals pertain to requested predetermined massage point parameters, and actuate at least one of vibrational unit from the set of vibrational units (202) based on the received massage point parameters.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202011040548 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DIGITAL LEARNING SYSTEM

(51) International classification	:G06T0019000000, G06F0003147000, G01S0013420000, G06F0030332300, G06N0005020000
(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

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2)KUMAR, Amit
3)MALHOTRA, Shivani
4)SHARMA, Bhanu
5)MANTRI, Archana
6)SINGH, Gurjinder

(57) Abstract :
The present disclosure pertains to a digital learning system (200) including a display unit (102) configured to display augmented reality (AR) simulation of predefined matrix, where the predefined matrix is configured to accommodate a set of binary digits, and correspondingly generate a first set of signals, an augmented reality (AR) engine (202) configured to extract an equation associated with the set of binary digits, authenticate the equation with preregistered equation, display a digital circuit based on the verified equation and illustrate prototype of one or more components associated with the digital circuit. The system (200) includes a board configured to assemble the one or more components (214) and pertain to an actual circuit, a processing unit (208) configured to verify output of the displayed digital circuit with output of the actual circuit and generate a set of alarm signals upon negative verification. The system (200) includes an image acquisition unit 210 and a set of sensors (212).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/09/2020
(21) Application No.202011040618 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CAVITATION NOISE REJECTION USING AIR AS DISCONTINUITY IN UNDERWATER MEASUREMENTS

(51) International classification	:G10K0011178000, H04Q0003000000, F25B0007000000, G01S0003802000, H04R0003000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)Kapil Dev Tyagi

(57) Abstract :
A cavitations noise reduction system (1) for rejecting\reducing the propeller cavitation noise in underwater without the requirement of electric power. To reduce the cavitation noise, the system requires air-filled bottles (5) which are mounted around the hydrophones (6) to reject the major part of incident acoustic noise or unwanted signals coming towards it from a particular direction. When an acoustic signal in water medium encounters a water medium and air medium interface, due to change in acoustic impedance most of the incident signals are reflected and the remaining part is transmitted through the interface. Figure- 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/09/2020

(21) Application No.202011040654 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A FIELD FIT-ABLE AUXILIARY DEVICE TO PROVIDE OPEN/CLOSE AND FAULT INDICATION OF CONTACTS OF ELECTRICAL SWITCHING UNIT

(51) International classification	:H01H0071460000, H01H0050540000, H01H0071020000, H01H0071040000, H01R0013700000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)ASHISH GUPTA
2)NARENDER KHATRI
3)GAURAV KAMBOJ

(57) Abstract :
The present invention relates to a field fit-able auxiliary device (200) to provide open/close and fault indication of contacts of electrical switching unit. The auxiliary device (200) comprises a first micro switch (201), a second micro switch (202), an auxiliary switch assembly, a first screw terminal (206), a second screw terminal (207), a third screw terminal (208), a fourth screw terminal (209), a fifth screw terminal (210), a sixth screw terminal (211) and an operating mechanism assembly. The first micro switch (201) and the second micro switch (202) is provided to perform ALT operation and AUX operation. The first micro switch (201) and the second micro switch (202) are actuated by the auxiliary switch assembly according to the condition of the electrical switching unit. The auxiliary switch assembly has a first rotating part (203) and a second rotating part (204) both pivotal to an auxiliary link (205) which is mechanically coupled to control shaft of the electrical switching unit. TO BE PUBLISHED WITH FIGURE 2

No. of Pages : 20 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2020

(21) Application No.202011040706 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A LIGAND FOR CYSTIC FIBROSIS AND ITS METHOD OF DESIGNING

(51) International classification	:G06F0030000000, G06F0030300000, G02B0027000000, A61J0015000000, G02C0007020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)RIYA MATHUR

(57) Abstract :
The cystic Fibrosis is a disease for which many drugs are there in the market, the present invention is directed towards finding a more stable ligand for the selected disease Cystic fibrosis with the help of cheminformatics software by following Lipsinki rule 5 and finding active sites on target proteins which binds more efficiently than the available market drugs for the cystic fibrosis. A method to find the more stable ligand with the help of chemiinformatics software is also mentioned.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2020

(21) Application No.202011040798 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A SYSTEM AND METHOD FOR REAL TIME AUTHENTICATION OF COMMODITIES AND GOODS

(51) International classification	:G06Q0010080000, G06Q0030000000, G06K0017000000, G06F0008350000, G01N0033340000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)JAIN, Ankur

(57) Abstract :
The present invention generally relates to an IoT and AI based real time authentication platform for trade transactions of agricultural and non-agricultural commodities and goods for cargo authentication at source and transit in terms of quality, quantity and traceability. The present invention collects various data from the temperature sensor, weight sensor, image sensor, gas sensor, IR sensor, 1D/2D label code scanners and compare against the desired range of the corresponding parameters fetched form the cloud. Further, the AI model is used to identify the commodity through its different quality parameters obtained from sensors. It includes the integrated services and applications on cloud and accompanying Web/Mobile Applications for buyers to receive cargo authentication information is real time. The payments and its flow between buyer, authentication platform and seller are also integrated into the system and process flow.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2020

(21) Application No.202011040829 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR AUGMENTED REALITY ASSISTED LEARNING

(51) International classification	:G06T0019000000, G06K0009000000, H04W0048160000, A61B0005047600, G06Q0010080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)KUMAR, Amit
2)MANTRI, Archana
3)MALHOTRA, Shivani
4)DUTTA, Rubina
5)SINGH, Narinder Pal

(57) Abstract :
The present disclosure pertains to a system and method for an augmented reality assisted learning. The system (100) includes an image recognition unit (102), an augmented reality (AR) engine 104, and a display unit (106). The image recognition unit (102) is configured to scan one or more circuits, and correspondingly generate a first set of signals. The AR engine (104) is configured to extract a second set of signals, where the second set of signals pertain to scanned one or more components (108) of the one or more circuits, identify the scanned one or more components 108 from at least one of the one or more circuits, match the one or more components (108) with a dataset and correspondingly generate a third set of signals. The display unit (106) is configured to display an AR view of function of the one or more components based on the third set of signals.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2020

(21) Application No.202011040830 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MONITORING AND DISTRIBUTING SYSTEM

(51) International classification	:G01N0015140000, A01C0007080000, A01C0007100000, B29C0064209000, G07D0001000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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2)DUTTA, Rubina
3)KAUR, Harsimran Jit
4)KUMAR, Amit
5)GAUR, Pulkit

(57) Abstract :
The present disclosure pertains to a monitoring and distributing system (100) including one or more dispensing units (102), and a processing unit 110 where the one or more dispensing units (102) includes a storage unit (104) adapted to receive and accommodate one or more objects, a sensor (108) operatively coupled to the storage unit (104) and configured to sense the one or more objects inside the storage unit (104) and an outlet (106) configured to dispense at least one of the one or more objects. The processing unit (110) is configured to update a dataset, where the dataset includes count of the dispensed at least one of the one or more objects associated with the at least one of the one or more dispensing units (102) and generate a set of alert signals and a set of warning signals and transmit to one or more mobile computing devices associated with one or more entities.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2020

(21) Application No.202011040906 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A PROCESS OF MAKING A DUAL WALL COOKING VESSEL

(51) International classification	:A47J0036020000, A47J0027000000, A61B0017320700, A47J0041000000, B29L0031000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
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(57) Abstract :
The invention relates to a process of making dual wall cooking vessel The said vessel have a preformed outer vessel of aluminum and a preformed inner vessel of stainless steel with zero gap in between the two vessels when pass through under mechanical force and power press by deep draw process.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2020

(21) Application No.202011040927 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVICE TO PROVIDE LOCKING MEANS AT ROPE ENDS

(51) International classification	:B29C0045040000, B29C0031020000, B29C0045420000, F16B0043000000, E06B0003540000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)Shishpal Chauhan
2)Dr. Kanika Malik

(57) Abstract :
A device for providing locking means at ends of a rope is disclosed. The device comprises a lower part 1, is to be fitted on the platform of an injection moulding machine. An upper part 6, adapted to be fitted with moulding material supply means, is provided such that to supply moulding material needed to form locking means 11, on the ends of the rope 10.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2020

(21) Application No.202011041039 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A PORTABLE APPARATUS FOR STORING AND DISPENSING ANTI-TANK MINES

(51) International classification	:G07F0017320000, A47F0005000000, A47F0001120000, C03B0009453000, B25J0009000000
(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

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5)ARUN KUMAR BARDE
6)VISHWANATH GAUTAM OVHAL

(57) Abstract :
The present invention is related to the field of apparatuses for dispensing mines and the present disclosure envisages an apparatus (100) for storing and dispensing anti-tank mines. The apparatus (100) comprises sensors (101), a container (102), a plurality of rack plates (104), an actuator (106), a conveyor (108), a pusher mechanism (110), and a control unit (114). The container (102) is configured for storing a plurality of mines (103) therein. The rack plates (104) are operatively coupled to inner portion of the container (102). The actuator (106) is configured to move the rack plates (104) vertically up and down. The pusher mechanism (110) is configured to slide horizontally and push at least one mine (103) on the conveyor (108). The control unit (114) is configured to drive the pusher mechanism (110) to push at least one mine (103) on the conveyor (108) to dispense at least one mine (103) therefrom.

No. of Pages : 34 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2020

(21) Application No.202011041044 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PASSIVE AMBIENT AIR FILTRATION DEVICE

(51) International classification	:G01N0001240000, F03D0003040000, G01N0001220000, F03D0001040000, F03D0009250000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
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(57) Abstract :
ABSTRACT PASSIVE AMBIENT AIR FILTRATION DEVICE A passive ambient air filtration device comprises a box shaped chamber, a wind inlet, a set of perforated plates, adjustable accelerator pieces, adjustable collector plates, and a wind outlet. The perforated plates are inclined and racked within the chamber and inclined ascending along direction of the incoming wind from the wind inlet. The accelerator pieces are positioned on each perforated plate and is positioned adjacent to a perforation formed on the perforated plate. The collector plates are vertically positioned along surface of the perforated plates. Particles from the incoming wind blowing through the wind inlet contacts each perforated plate and are accelerated along each accelerator piece to contact and collect on each collector plate. The collected particles are transferred via the perforations to a bottom section of the chamber via gravity and the particle free air is extracted from the wind outlet.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2020
(21) Application No.202011041058 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PIEZO-SMA BASED WEARABLE DEVICE FOR ELCTRO-MECHANO GRAM (EMG) OF HUMAN BONES FOR DIAGNOSTIC PURPOSES

(51) International classification	:A61B0005000000, G01N0029040000, A61B0005053000, G01R0027260000, G01M0011080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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2)SRIVASTAVA, Shashank
3)MADAN, Alok

(57) Abstract :
The present invention is to provide a Piezo (Shape Memory Alloy) SMA based wearable device for acquiring electro-mechanical impedance diagnostic signature of human bones in an automated manner. It discloses a device using non-bonded form of piezo sensor, which when properly gripped onto the subject's body, can facilitate the detection of osteoporosis, fractures and bone healing via the admittance signature based on the electro-mechanical impedance (EMI) technique. The EMI technique essentially consists of a piezo patch (2) bonded to the structure, which, acting both as a sensor and actuator simultaneously, acquires the admittance signature which acts as a fingerprint of the structure. Any structural changes occurring in the host structure are reflected in the fingerprint admittance signatures. This specially designed device essentially consists of a flexible/bendable aluminium strip (3) with a PZT patch (2) bonded to the centre of the aluminium strip (3). This particular unit is embedded onto a silicon padding (5) which is worn by the subject. The gripping is induced by electrical heating of the SMA for a period of one to two minutes to enable acquisition of the EMG of the bone for diagnostic purposes.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041118 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VEHICLE

(51) International classification	:B60T0007100000, B62L0003020000, B62K0023060000, F16D0125600000, B60T0001060000
(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

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2)SURVASE, Vikas Dashrath

(57) Abstract :
A vehicle (100) is provided. The vehicle (100) comprises a body frame (122), a steering mechanism (116), and a speed deceleration system (130). The speed deceleration system (130) comprises a brake unit (134), a brake lever (138) configured to actuate the brake unit (134) in an actuated state, and a parking brake mechanism (150) having an actuating means (162) and a parking brake lever (160). The parking brake lever (160) is pivoted between a first position and a second position by the actuating means (162), such that pivoting of the parking brake lever (160) during actuation of the brake lever (138) from the non-actuated state to the actuated state, causes the parking brake lever (160) to engage the brake lever (138) and to thereby maintain actuation of the brake lever (138).

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041119 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WINDSHIELD OF VEHICLE

(51) International classification	:B62J0017040000, G03B0015030000, E02F0003280000, F16M0011180000, F21S0010000000
(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

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(72)**Name of Inventor :**
1)SINGH, Ashutosh Pratap
2)KUMAR, Devendra

(57) Abstract :
A windshield (200) of a vehicle (100) having a frame body (103), and a front fairing (125) mounted to the frame body (103) is provided. The windshield (200) comprising: a support bracket (202) connected to the frame body (103); a guiding stay (208) connected to the support bracket (202), the guiding stay (208) includes a slot (210); a windshield member (300) movable with respect to the front fairing (125) of the vehicle (100); a windshield rear support member (310) connected to the windshield member (300); a base plate (312) extending outwardly from the windshield rear support member (310), the base plate (312) having a second slot (210a); at least one guiding member (314), extending upwardly from the base plate (312) and movably received within the at least one guiding provision (211); an actuator lever (320) threadably coupled to the second slot (210a) or the slot (210).

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041152 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : LEVER MECHANISM FOR TRANSMISSION SYSTEMS

(51) International classification	:F16H0063300000, F16H0059040000, F16H0061664000, F16H0061320000, F16H0061180000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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2)KIA MOTORS CORPORATION
(72)**Name of Inventor :**
1)KRISHNA, Aluri Vamsee
2)KIM, Eun Sik

(57) Abstract :
The present invention relates to a transmission system comprising a transitional lever for select and shift strokes. In particular, the present invention is directed to a lever mechanism for transmission systems comprising a transitional lever which is used between the select lever and the shift rod, the transitional lever attached rotatably to the select and the shift rod by aid of ball joints which allows for some free play at the joints. In a particular embodiment, the transitional lever fixed to the select lever on one end while being rotatably fixed to the shift rod on the other end.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2020
(21) Application No.202011041197 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IMMUNITY BOOSTER NUTRACEUTICAL COMPOSITION

(51) International classification	:A61K0036610000, A61K0036470000, A23L0033000000, A61K0036605000, A23K0010300000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)KAUSHAL, Jyotsna
2)KALRA, Sushil
3)BHOGAL, Sachin
4)JAIN, Gaurav

(57) Abstract :
The present disclosure relates generally to the field of nutraceutical compositions. Specifically, the disclosure is directed to a nutraceutical composition for boosting immunity in a diabetic subject comprising Morus rubra, Stevia rebaudiana, Phyllanthus emblica, and Syzygium cumini, wherein the composition comprises unripe fruit of Syzygium cumini. The disclosure also relates to a method of preparing the nutraceutical composition. The composition is suitable for diabetic patients and does not cause side effects.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2020

(21) Application No.202011041199 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING EXOSKELETON

(51) International classification	:A61B0003110000, B25J0009000000, F24F0110100000, G06K0009620000, A61B0005117000
(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

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4)NAYAK, Aniket
5)SHARMA, Mohit
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7)SAHNI, Rohan
8)GUPTA, Rupesh
9)GUPTA, Deepali
10)SINGH, Manpreet
11)RAMGOPAL
12)SINGH, Varsha
13)WADEHRA, Amit
14)GARG, Meenu
15)SINGH, Jaswinder

(57) Abstract :
The present disclosure relates to a system for controlling exoskeleton. The system includes an eyewear operably coupled with the exoskeleton. The eyewear includes an imaging device, a sensing device operatively coupled with the imaging device. The imaging device and the sensing device are configured to monitor one or more eye parameter of a user wearing the eyewear, and correspondingly generate a set of first signals. One or more processing unit is operatively coupled with the eyewear. The one or more processing unit includes a processor associated with a memory, and the one or more processing unit configured to receive the set of first signals from the eyewear. Extract the one or more eye parameters from the received set of first signals. The one or more processing unit is configured to match the extracted one or more eye parameters with pre-defined parameters stored in a dataset, and accordingly generate a set of control signals representing the movement of one or more limbs of the exoskeleton.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2020

(21) Application No.202011041200 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVICE FOR CLEANING AND SANITIZING EDIBLE PRODUCTS

(51) International classification	:A47J0031400000, A61M0016100000, A61M0016000000, B08B0001000000, A23G0009220000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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2)CHAUHAN, Harsha
3)GUPTA, Deepali
4)GUPTA, Sheifali
5)GUPTA, Kamali
6)GUPTA, Rupesh
7)SINGLA, Rahul
8)GUPTA, Raman
9)NAZ, Huma
10)BACHHAL, Prabhnoor

(57) Abstract :
The present disclosure discloses a device 100 for facilitating cleaning and sanitizing of edible products. The device 100 can include a casing 102 for accommodating edible products, such as vegetables and fruits. The device 100 can include valves 106 to facilitate inflow and outflow of a fluid to and from the casing 102, respectively. The device 100 can include a motor 104 to facilitate rotation of the edible products and the fluid that facilitates cleaning and sanitizing of the edible products. The device 100 can include a heating element 110 to enable heating of the fluid. The device 100 can include a sensor 108 and a control unit 112, where the sensor 108 can sense weight of the edible products, and correspondingly the control unit 112 can control parameters of the device 100, such as speed and time of operation.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041261 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : APPARATUS FOR MANAGING ENERGY CONSUMPTION OF AIR CONDITIONER

(51) International classification	:H01M0010656300, B64F0001360000, G06N0005040000, H01M0008047910, F24F0011300000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)BANSAL, Tushar
2)GARG, Deepanshu

(57) Abstract :
The present disclosure relates to an apparatus (100) for managing energy consumption, the apparatus including: an air conditioning unit (102) adapted to supply conditioned air in premises, an air flow conduit (110) adapted to receive air from the premises, an air accumulator (108) adapted to pre-cool the received air, and one or more sensors (112) can be operatively coupled to the air flow conduit, the one or more sensors adapted to monitor temperature attributes of the premises, wherein, based on the temperature attributes of the premises, the air conditioning unit is operated to receive the air from the premises through the air flow conduit to be pre-cooled by the air accumulator, the pre-cooled air from the air accumulator is processed to supply the conditioned air to facilitate energy management of the air conditioning unit.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041262 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING DRIVING ASSISTANCE TO USER

(51) International classification	:H04W0004021000, H05B0047105000, G08G0001160000, B60W0050000000, G08G0001000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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3)KUMAR, Keshav
4)WALIA, Mandeep
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7)GUPTA, Deepali

(57) Abstract :
The present disclosure relates to a system (100) for providing driving assistance to user, the system includes a first transceiver (104) adapted to transmit a first signal of a first moving objects, a second transceiver adapted to receive the first signal from the first moving objects. A communication unit (108) configured on the first moving objects and the second moving objects, the communication unit adapted to establish communication between the first transceiver and the second transceiver. A microcontroller (106) configured to receive, by the second transceiver, the first signal of the first moving objects to generate a second signal, to be displayed on a display device (112) of the second moving objects to assist the user, the second signal pertaining to any or a combination of proximity of the first moving objects, identity of the first moving objects and an alert.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041278 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : STORAGE BOX FOR A REFRIGERATOR

(51) International classification	:B62K0019460000, G06F0001323400, F25D0025020000, H02G0003080000, H01R0024760000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)KAMISAKO, Toyoshi

(57) Abstract :
A storage box (100) for a refrigerator (600) is disclosed. The storage box (100) includes a container (102) having at least one first slot (302) and at least one removable receptacle assembly (200) adapted to be disposed in the at least one first slot (302). The at least one receptable assembly (200) is adapted to store an edible item. The storage box (100) includes a cover (104) adapted to be disposed on the container (102) such that the at least one removable receptacle assembly (200) is closed from the top by the cover (104), and a water vapor remover (402) adapted to be disposed between the at least one removable receptacle assembly (200) and the cover (104). The water vapor remover (402) is adapted to absorb moisture from the at least one removable receptacle assembly (200).

No. of Pages : 27 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020
(21) Application No.202011041282 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A PROCESS FOR TRICHODERMA MODULATED IN-VITRO BIO-DEPOLYMERISATION OF CHITOSAN POLYMERS INTO OLIGOMERS FOR EFFECTIVE CROP PROTECTION

(51) International classification	:A01N0063300000, C12R0001885000, C12N0001140000, C02F0001560000, C08L0005080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)Dr Yogita Bohra
2)Dr J Kumar

(57) Abstract :
This invention relates to the process of Trichoderma modulated bio-depolymerisation of polymeric chitosan into smaller oligomers in vitro, which negates the steps of specific enzyme isolation and purification, thus is easy, eco-friendly, economical and time saving in approach. The present technology would greatly facilitate utilization of easily available biodegradable polymer chitosan along with a bio-control fungus Trichoderma asperellum for dual benefits in eco-friendly and sustainable crop protection.

No. of Pages : 24 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020
(21) Application No.202011041283 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A PROCESS FOR TRICHODERMA MODULATED BIO-DEPOLYMERISATION OF CHITOSAN POLYMERS INTO OLIGOMERS IN PLANTS FOR EFFECTIVE PLANT STRENGTHENING AND CROP PROTECTION

(51) International classification	:A01N0063300000, C12R0001885000, C12N0001140000, A61K0031722000, C08L0005080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)Dr Yogita Bohra
2)Dr J Kumar

(57) Abstract :
This invention relates to the process of Trichoderma modulated bio-depolymerisation of polymeric chitosan into smaller oligomers on plants, which negates the steps of specific enzyme isolation and purification, thus is easy, eco-friendly, economical and time saving in approach. The invention also relates to the processing of samples for studying chitosan depolymerisation occurred on the leaf surface. The present technology would greatly facilitate utilization of easily available biodegradable polymer chitosan along with a bio-control fungus Trichoderma asperellum for dual benefits in eco-friendly and sustainable crop protection along with contributing to the scientific knowledge about easy sample processing to study the phenomenon on plants.

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041294 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A MONITORING DEVICE AND METHOD OF MONITORING

(51) International classification	:H04W0004029000, G08B0021040000, A61B0005110000, H04M0011040000, G06F0003048000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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 :**
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1)MISHRA, Rajendra Ravi Shanker

(57) Abstract :
The present invention discloses a device and method for monitoring individuals, more specifically, a device and method of monitoring kids, elderly people, relatives, employees and/or any other person is disclosed. The disclosed device and method allows a user to track the real time geo-location of the individual. The device and method also allows two-way voice communication between the user and the individual. Further, the device and method disclosed herein enables the user to receive back a one way voice communication at his instance.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041302 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AN IMMOBILIZATION MATRIX FOR CELL IMMOBILIZATION

(51) International classification	:C12N0011080000, C12N0011040000, C12N0011140000, C12N0011100000, H04L0009320000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)Thakur, Kiran
2)Seth, Amit
3)Attri, Chandrika

(57) Abstract :
The present invention provides a immobilization matrix for cell immobilization comprising: a) macroporous polyurethane, and b) cross-linking agent selected from the group consisting of glyoxal and N, N'-Methylenebisacrylamide. In particular the immobilization matrix disclosed in the present application provides a good adhesion support for cells/microorganisms. The immobilized matrix disclosed in present application by using macroporous Polyurethane (PUF) foam with cross-linking agents N, N'-Methylenebisacrylamide have improved the enzyme activity and stability of the immobilized cells and also have enhanced reusability.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041305 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SLIDER TYPE BASELESS OUTSIDE HANDLE

(51) International classification	:G11B0005480000, E05B0085100000, E05B0079060000, H01R0033090000, E05B0085160000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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1)KUNAPAREDDY, Naresh
2)ELATI, Siva

(57) Abstract :
The present invention relates to a baseless type outside handle (500) with slider concept having the advantages of reduced number of end items and assembly time. More specifically, the present invention comprises a slider type baseless outside handle (500) provided on a vehicle door panel (510) comprising a slider assembly (501) comprising a slider (501a) and a slider mounting bolt (501b); and grip assembly (502) comprising a grip cover (502a), grip body (502b), base (502c), lever (502d), rod holding clip (502e), spring (502f), counter or balance weight (502g), cushion (502g), hinge pad (502i) and cover pad (502j).

No. of Pages : 31 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041306 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM FOR INCREASING TEMPERATURE OF AIR TO BE BLOWN TO AN AUTOMOBILE TYRE AND METHOD THEREOF

(51) International classification	:B60H0001000000, G06T0007000000, G06K0009620000, B60H0001320000, G01M0017020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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2)NEELA, Pradeep
3)MARREDU, Teja

(57) Abstract :
The present invention also relates to a system and method for dynamic flap control with two-way flow compartment / pipe for increasing temperature of air to be blown to the tyre. More particularly, the present invention relates to a system for increasing temperature of air to be blown to vehicle tyres comprising a normal camera (10) placed below the under body of the vehicle to detect heat and pressure on every tyre to capture images and / or videos, images and / or videos from the camera (10) are sent and processed in the IDPU (Image Detection/Processing Unit) (11), IDPU detects the temperature on each tyre at every area by images and / or videos from camera, input from IDPU is sent to the TTCU (Tyre Traction Control Unit) (12) and it triggers to start the air intake blower (2), air intake blower (2) takes in surrounding air and sends it into heat exchange compartment (8) for heating surrounding air; hot air is then mixed with tyre traction improvement gas (4); this mixture is sprayed on to the tyre through dynamically controlled air flow control flap (7) hoses, wherein TTCU dynamically controls the flap (7) opening based on speed, rotation and temperature of the tyre.

No. of Pages : 46 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041340 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A COMPOSITION EXHIBITING RADIO-PROTECTIVE AND RADIO-MITIGATING PROPERTIES AND PROCESS FOR PREPARING THEREOF

(51) International classification	:C08G0081020000, H01L0051520000, C01G0049000000, C09J0007220000, C08G0059400000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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3)KAUSHIK, Vinod
4)CHAWLA, Raman
5)ROY, Bal Gangadhar
6)GOEL, Rajeev
7)OJHA, Himanshu

(57) Abstract :
The present disclosure provides a composition comprising: (a) at least one alphaketo acid or derivatives thereof; (b) at least one polymer, (c) at least one crosslinking agent, wherein the alpha-keto acid or derivatives thereof has a weight percentage in the range of 0.001-2.5% with respect to the composition. The composition provides both radio-protective and radio damage-mitigating effect to the skin. The composition is used for making a dermal-protective hydrogel which is safe and cost-effective. Also provided is a convenient process for preparing the composition.

No. of Pages : 54 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2020

(21) Application No.202011041358 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VASCULAR COMPRESSION DEVICE WITH MULTI-AXIS DEGREE OF FREEDOM FOR HEMOSTASIS MANAGEMENT

(51) International classification	:A61B0017000000, A61B0017120000, A61B0017132000, A61H0009000000, B25J0009000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)Das Amitava
2)Das Supankar
3)Sreenivas Reddy
4)Sidharth
5)Sharma Mamta

(57) Abstract :
A vascular compression device with multi-axis four degree of freedom in two translational and two rotational motion for achievement of hemostasis after an interventional procedure by application of compressive pressure on a patient's incision site is presented. Functionally, the apparatus enables easy manipulation and positioning of measurable pressuring means with plurality of degree of freedoms and is constrained to a single platform in a small foot print configuration. Additionally, the apparatus is safe, stable and cost effective is achieving its stated objectives related to hemostasis management.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2020

(21) Application No.202011041384 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A DEVICE FOR THE MECHANIZED SEGREGATION OF MUNICIPAL SOLID WASTE

(51) International classification	:B09B0003000000, C12M0001000000, F27D0003100000, C10G0002000000, B65F0003020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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2)AMIT GANGULY
3)SUBHO SAMANTA
4)PRIYABRATA BENERJEE
5)HARISH HIRANI

(57) Abstract :
Safe and effective disposal of municipal solid waste (MSW) is a challenge of the era. Uncontrolled growth of MSW has become a major concern for Urban Local Bodies (ULBs) throughout the world. Today across most of the municipal corporations; waste segregation has become a menace due to ill-practice of manual segregation. Mechanized segregation system is need of the hour to handle this huge quantity of waste generated day by day. In addition to that proper segregation system shall help in effective conversion of waste into wealth. The developed mechanized segregation system is capable of segregating metallic material (metal body, metal container etc.), biodegradable material (foods, vegetables, fruits, grass etc.), non-biodegradable (plastics, packaging material, pouches, bottles etc.) as well as inert material (glass, stones etc.) from municipal solid wastes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2020

(21) Application No.202011041506 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR POSTURE MONITORING AND ALERTING

(51) International classification	:A61B0005000000, A61B0005110000, A61B0005103000, H04N0001000000, G01R0031392000
(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

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(72)**Name of Inventor :**
1)JUNEJA, Sagar
2)KAPOOR, Kritika

(57) Abstract :
The present disclosure discloses a posture monitoring and alerting system 100 that can include sensors 102 configured to sense postural attributes of a person sitting on a chair. The system 100 can include a monitoring unit 104 operatively coupled to the sensors 102, where the monitoring unit 104 is configured to determine a posture based on the postural attributes, and can display one or more effects of sitting in the determined posture. The system 100 can also update itself based on the determined posture.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/09/2020

(21) Application No.202011041507 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DISPENSING AND ALERTING APPARATUS

(51) International classification	:B05C0005020000, B05C0011100000, G07F0017000000, D06F0039020000, A61J0007000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)PUNDIR, Meena
2)SANDHU, Jasminder Kaur
3)BEDYAL, Ankush Kumar
4)SINGH, Malkit

(57) Abstract :
The present disclosure discloses a dispensing and alerting apparatus 100 that can include a receptacle 102 that having compartments that are adapted to confine one or more objects, and a lid 104 coupled to the receptacle 102. The receptacle 102 includes buttons, where each of the buttons is associated with at least one of the compartments of the receptacle 102. The apparatus 100 includes sensors 106 operatively coupled to the buttons and the receptacle 102, and a control unit 110 operatively coupled to the sensors 106. When a person exerts a pre-determined pressure on at least one of the buttons, the sensors 106 sense said pressure, and correspondingly the control unit 110 generates a set of dispensing signals to enable controlled dispensing of at least one of the one or more objects from the apparatus 100.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2020
(21) Application No.202014050077 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TOOL HOLDER HOLDING AND LOOSENING DEVICE OF CHAIN-TYPE TOOL MAGAZINE OF MACHINE TOOL

(51) International classification	:B23Q0003155000, B23Q0003157000, A24B0003060000, E02F0005320000, A23L0033105000
(31) Priority Document No	:109132540
(32) Priority Date	:21/09/2020
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CHING-SAN CHANG

(57) Abstract :
A tool holder holding and loosening device of chain-type tool magazine of a machine tool is disclosed. A locking mechanism (40) is disposed on a rear end of each of sockets (20) in a tool magazine. The locking mechanism (40) is adapted to abut against an end of a tool holder (30) mounted in the socket (20), thereby to prevent the tool holder (30) from accidentally loosing. A tool loosening device (50) is disposed on a predetermined position of the chain-type tool magazine. The tool loosening device (50) is adapted to unlock the locking mechanism (40) of the tool magazine passing through the predetermined position, so that the tool holder (30) could be easily taken out of the socket (20).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/09/2020

(21) Application No.202017041735 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IDENTIFICATION OF CUSHIONING MEMBERS IN PERSONAL AUDIO DEVICES

(51) International classification	:H04R0001100000, H04R0005033000, H04M0001600000, H04W0004800000, A61B0090980000
(31) Priority Document No	:62/902239
(32) Priority Date	:18/09/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/051306 :17/09/2020
(87) International Publication No	:WO 2021/055629
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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5)HUWE, Ethan, L.
6)MARCO, Todd, P.
7)LEBLANC, Jason, J.
8)ZUPKE, Robert, D.
9)MINERBI, Michael, B.
10)BHAGWAT, Prathamesh, R.
11)BLOOM, Daniel, R.

(57) Abstract :
A personal audio device (e.g., headphones, earphones) can have an earpiece (e.g., an ear cup or earbud) with a removable cushioning member (e.g., headphone cushions or ear tips for earbuds). The cushioning member can include an identification tag that encodes identification data for the cushioning member. When the cushioning member is attached to the earpiece, the identification tag is brought into proximity with a tag sensor in the earpiece and the earpiece can read the identification tag to determine identification data for the cushioning member. The identification data can be used to modify a behavior of the earpiece and/or of a host device communicably coupled to the earpiece.

No. of Pages : 62 No. of Claims : 57

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020
(21) Application No.202019040493 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : POSTURE CORRECTION AND HEALTH MONITORING WEARABLE DEVICE

(51) International classification	:A61B0005000000, A61B0005053000, A61B0005010000, A61B0005110000, A61B0005024000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/IN2020/050619 :09/08/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filed on	:201911032376 :09/08/2019
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)vivek plawat
2)rishi plawat

(57) Abstract :
A wearable device is provided. The device includes a first device and a second device, operatively coupled to each other, synchronous in orientation. A control unit configured to determine orientation of the user with respect to a reference plane and the degree of tilt of the user based on received sensed data from both the devices having a set of sensors. Any variation of posture of the user based on compared data is noted and alerts given. It also measures the idle time, sitting time, active time, distance travelled and orientation of the wearer. First device measures the health parameters in standalone, including heart rate, temperature, perspiration, skin conductance, breathing frequency and volume and compares it to standard normal.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2020

(21) Application No.202019040503 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A WEARABLE DEVICE FOR MEASURING WAIST SIZE, STRAIN ON WAIST AND ACTIVITY OF USER

(51) International classification	:G01C0022000000, A41F0009000000, A44B0011000000, G06K0007100000, A61B0005000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/IN2020/050625 :19/07/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filed on	:201911032374 :19/07/2020
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A wearable device for measuring waist circumference of user is provided. The device includes a belt and buckle. A belt strap, its first end is operatively coupled to the belt buckle. A RFID reader in the buckle is to read the tags. Tags are positioned at a predefined distance from the second end of the belt strap. The reader tracks position of the tags by identifying the nearest tag positioned on the belt strap to the reader, measuring a waist size of a user. A strain gauge in the buckle measures the strain on the belt and the pedometer device in the buckle measures the distance travelled, idle time, steps taken and the orientation of the user.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/03/2021

(21) Application No.202114013471 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CAMERA MODULE

(51) International classification	:H04N0005225000, H04N0005232000, G02B0007080000, H04N0005770000, B60R0011040000
(31) Priority Document No	:10-2020-0120007
(32) Priority Date	:17/09/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)Jae Woo JUN

(57) Abstract :
CAMERA MODULE A camera module includes a first rotation case configured to rotate in the fixed case around a first axis, a second rotation case configured to rotate in the first rotation case around a second axis, perpendicular to the first axis, a sub-module fixed in the second rotation case, a first shape memory alloy driving wire connected to the first rotation case, and a second shape memory alloy driving wire connected to the second rotation case.

No. of Pages : 35 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/05/2021
(21) Application No.202114022078 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : OPTICAL IMAGING SYSTEM

(51) International classification	:A61B0005000000, A61K0049000000, A61B0003120000, G01B0009020000, G02B0013000000
(31) Priority Document No	:10-2020-0123436
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
1)Dong Hyuk JANG
2)Byung Hyun KIM
3)Jae Hyuk HUH
4)Yong Joo JO

(57) Abstract :
An optical imaging system includes a plurality of lenses disposed along an optical axis from an object side of the optical imaging system toward an imaging plane of the optical imaging system. The lenses are separated from each other by respective air gaps along the optical axis between the lenses. The lenses include a first lens closest to the object side of the optical imaging system. The conditional expressions 1.5 mm Gmax, TL 12.0 mm, and 0.15 R1/f are satisfied, where Gmax is a maximum air gap along the optical axis among all of the air gaps, TL is a length of the optical imaging system along the optical axis from an object-side surface of the first lens to the imaging plane, R1 is a radius of curvature of the object-side surface of the first lens, and f is a focal length of the optical imaging system

No. of Pages : 99 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/07/2021

(21) Application No.202114034541 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MACHINE LEARNING NETWORK FOR SCREENING QUANTUM DEVICES

(51) International classification	:G06N0010000000, B82Y0010000000, G06N0003040000, G06K0009460000, H01L0029660000
(31) Priority Document No	:63/080,560
(32) Priority Date	:18/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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)The Boeing Company
Address of Applicant :100 North Riverside Plaza, Chicago, IL 60606-1596, U.S.A. U.S.A.
(72)**Name of Inventor :**
1)MEI, Antonio Rodolph Bighetti

(57) Abstract :
A method, apparatus, system, and computer program product (822) for screening quantum devices (134, 206). A computer system (216) sends features (222) extracted from an image of a quantum device into a classification neural network (144, 302). The classification neural network (144, 302) is configured to identify a set of characteristics (140, 224) for the quantum device from a group of mutually exclusive characteristics (226) based on the features (222) identified in the image of the quantum device and output the set of characteristics (140, 224) identified for the quantum device. The computer system (216) receives the set of characteristics (140, 224) identified by the classification neural network (144, 302) for the quantum devices (134, 206). The set of characteristics (140, 224) indicates whether the quantum devices (134, 206) will function as desired.

No. of Pages : 63 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/08/2021

(21) Application No.202114035433 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DRIVING CONTROL APPARATUS FOR VEHICLE

(51) International classification	:B60W0030180000, B60W0030120000, G08G0001160000, B62D0015020000, B41J0002210000
(31) Priority Document No	:2020-160059
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)Katsuhiko SATO

(57) Abstract :
To make it possible to smoothly and promptly perform an emergency evacuation (bringing a vehicle to a road shoulder) when a driver cannot take over operation when a failure occurs. [Solution] At operation of a function for evacuating a vehicle to a road shoulder when a driver cannot take over operation when a failure occurs, when the vehicle is driving in a lane other than a first lane neighboring the road shoulder, automated lane change to the first lane is performed, and prior thereto, a predetermined area serving as a criterion of the lane change to the first lane is set to a second predetermined area smaller than the predetermined area of the automated lane change, and when the vehicle is driving in the first lane neighboring the road shoulder at operation of the function for evacuating, or when automated lane change to the first lane is performed during operation of the function for evacuating and the vehicle is driving in the first lane, prior to evacuation to the road shoulder, a predetermined area serving as a criterion of evacuation to the road shoulder is set to a third predetermined area smaller than the second predetermined area.

No. of Pages : 37 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202114035535 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VACUUM PUMP

(51) International classification	:F04D0019040000, F04C0018344000, F04C0025020000, F04C0029000000, F04B0037140000
(31) Priority Document No	:JP2020-156980
(32) Priority Date	:18/09/2020
(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

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(72)**Name of Inventor :**
1)ISHII, Toshihiro
2)TAKASAKI, Yusuke

(57) Abstract :
A vacuum pump 1 includes an oil supply pipe 2 having one end portion 10 where an inlet 12 for lubricant oil is formed and the other end portion 18 where an outlet 20 for the lubricant oil is formed, a rotor 4 including a shaft part 28 where a recess portion 26, into which the other end portion 18 of the oil supply pipe 2 is inserted, is formed, and a first elastic body 6 held on an outer circumferential surface 22 at the other end portion 18 of the oil supply pipe 2. The recess portion 26 has an inner circumferential surface 30 where a groove portion 32 engageable with the first elastic body 6 is formed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021

(21) Application No.202114035547 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VACUUM PUMP

(51) International classification	:F04D0019040000, F04C0018344000, F04C0025020000, F04C0029000000, F04B0037140000
(31) Priority Document No	:2020-156990
(32) Priority Date	:18/09/2020
(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

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5)EBATO, Akihiro
6)YAZAWA, Hirofumi

(57) Abstract :
A vacuum pump 1 includes an oil supply pipe 2 having one end portion 10 where an inlet 12 for lubricant oil is formed and the other end portion 18 where an outlet 20 for the lubricant oil is formed, a rotor 4 including a shaft part 28 where a recess portion 26, into which the other end portion 18 of the oil supply pipe 2 is inserted, is formed, a coupling 6 engaging with the shaft part 28, and a bush 8 configured to hold the coupling 6 as well as to be fitted in an inner circumferential surface 30 of the recess portion 26, and to regulate separation of the other end portion 18 of the oil supply pipe 2 from the recess portion 26.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/08/2021
(21) Application No.202114035580 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DRIVING CONTROL APPARATUS FOR VEHICLE

(51) International classification	:B60W0030180000, B60W0030160000, B60W0050000000, G08G0001000000, B60W0050140000
(31) Priority Document No	:2020-160058
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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

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1)Katsuhiko SATO

(57) Abstract :
To reduce impact on traffic flow due to automated lane change in a situation in which ODD deviation is predicted. [Solution] A driving control apparatus for a vehicle, having a function for performing automated in-lane driving by maintaining a set vehicle speed when there is no preceding other vehicle in the vehicle's driving lane, and maintaining a set inter-vehicle distance when there is a preceding other vehicle, a function for performing automated lane change to a neighboring lane when there is no other vehicle in first predetermined areas (ZF and ZR) of the neighboring lane, and a function for performing fallback control of the functions in a case of deviation from a system operational design domain during operation of the function for performing the automated in-lane driving and/or the function for performing the automated lane change, wherein second predetermined areas (ZF' and ZR') larger than the first predetermined areas are set as a criterion of the automated lane change when deviation from the system operational design domain is predicted.

No. of Pages : 33 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202114035866 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ARRANGEMENT FOR AN ELECTRIC MACHINE WITH IMPROVED RESIN FILLING FOR STATOR WINDINGS

(51) International classification	:H05K0003460000, H02K0003520000, C09D0123080000, H02K0005128000, H02K0015120000
(31) Priority Document No	:20460038.1
(32) Priority Date	:17/09/2020
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:NA :NA
(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

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2)Günther, Rebecca
3)Kirchner, Barbara
4)Menz, Michael
5)TOMICZEK, Robert

(57) Abstract :
An arrangement for an electric machine (1) is disclosed, which comprises a housing (12) with a stopper (13) and a stator (4) arranged in the housing (12). The sta5 tor (4) comprises a stator lamination stack (6), stator windings (7) and a stator end disc (8a, 8b) arranged on the axial end of the stator lamination stack (6). In the mounted position, the stator lamination stack (6) on the axial end, on which the stator end disc (8a, 8b) is arranged, is in body contact with the stopper (13) of the housing (12). In detail, the stopper (13) has an annular shape thereby providing a radial gap (b) between the stopper (13) and the stator end disc (8a, 8b). Moreover, the invention relates to a method for manufacturing such an arrangement, an electric machine (1) having such an arrangement and a vehicle (16) having such an electric machine (1).

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/08/2021
(21) Application No.202114036270 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CONTROL DEVICE FOR HYBRID VEHICLE

(51) International classification	:B60W0010080000, B60W0010060000, B60W0020000000, B60K0006480000, B60W0010020000
(31) Priority Document No	:2020-158753
(32) Priority Date	:23/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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

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1)ITO, Yoshiki

(57) Abstract :
To provide a control device for a hybrid vehicle capable of improving fuel efficiency by suppressing a shift to an HEV mode not required by a driver. [Solution] A control device for a hybrid vehicle includes: a manual transmission unit 4 allowing a driver to manually select an arbitrary shift stage; an engine 2 driving a drive wheel 6 through the manual transmission unit 4; a clutch 7 enabling or disabling the transmission of power between the engine 2 and the manual transmission unit 4; a motor generator 3; and an ECU 10 switching an EV mode allowing the vehicle to run only using the motor generator 3 as a drive source and an HEV mode allowing the vehicle to run using the engine 2 and the motor generator 3 as a drive source and maintaining the EV mode until a ratio with respect to an upper limit of an accelerator opening degree becomes larger as the shift stage of the manual transmission unit 4 becomes a higher speed stage.

No. of Pages : 27 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/08/2021
(21) Application No.202114036788 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CONTROL DEVICE FOR HYBRID VEHICLE

(51) International classification	:B60W0020000000, B60W0010080000, B60W0010060000, B60W0010020000, B60K0006480000
(31) Priority Document No	:2020-158751
(32) Priority Date	:23/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
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(57) Abstract :
A control device for a hybrid vehicle includes: a manual transmission 4 allowing a driver to manually select an arbitrary shift stage; an engine 2 driving a drive wheel 6 through the manual transmission 4; a clutch 7 enabling or disabling the transmission of power between the engine 2 and the manual transmission 4; a motor generator 3; and an ECU 10 switching an EV mode allowing the vehicle to run only using the motor generator 3 as a drive source and an HEV mode allowing the vehicle to run using the engine 2 and the motor generator 3 as a drive source and allowing the motor generator 3 to generate a virtual driving vibration corresponding to a driving vibration when the engine 2 drives the drive wheel 6 in the HEV mode and a virtual engine vibration corresponding to a vibration generated by an inertial force of the engine 2 in the HEV mode.

No. of Pages : 33 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/08/2021

(21) Application No.202114037128 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FLEXIBLE TEMPERATURE SENSING DEVICES FOR BODY TEMPERATURE SENSING

(51) International classification	:A61B0005010000, A61B0005000000, G01K0001140000, A61B0005020500, A61B0010000000
(31) Priority Document No	:17/031,559
(32) Priority Date	:24/09/2020
(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

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(72)**Name of Inventor :**
1)MANSKY, Paul
2)NIU, Xiaofan
3)CLEMENTS, James C.
4)TOSUN, Mahmut
5)VOSGUERITCHIAN, Michael

(57) Abstract :
Embodiments include a temperature sensing device that includes a temperature sensor stack that includes a flexible substrate and an array of temperature sensors coupled to the flexible substrate. Each temperature sensor in the array of temperature sensors can include a conductive material defining a continuous pattern extending from a first node to a second node, a first set of conductive traces coupled to the flexible substrate, and a second set of conductive traces coupled to the flexible substrate. The temperature sensing device can include a processing circuit configured to apply an electrical signal across the conductive material of each temperature sensor using the first set of conductive traces, detect an effect of the conductive material of each temperature sensor on the electrical signal using the second set of conductive traces, and determine a temperature for the temperature sensors in the array using the detected effects of the conductive material on the electrical signal.

No. of Pages : 71 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/08/2021

(21) Application No.202114037687 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : KEYBOARD INSTRUMENT, KEYBOARD INSTRUMENT MANUFACTURING METHOD, AND KEYBOARD INSTRUMENT COMPONENTS

(51) International classification	:F16B0011000000, B23B0027140000, G10C0003120000, G10C0003020000, E06B0009420000
(31) Priority Document No	:2020-155930
(32) Priority Date	:17/09/2020
(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

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(72)**Name of Inventor :**
1)Kazuo SHIMADA

(57) Abstract :
KEYBOARD INSTRUMENT, KEYBOARD INSTRUMENT MANUFACTURING METHOD, AND KEYBOARD INSTRUMENT COMPONENTS A keyboard instrument 100 according to an aspect of the present invention includes: a base material 31 having a first surface 32a or 32b and a second surface 33 adjacent to the first surface 32a or 32b; an attachment component 35 having an attachment surface 361 attached to the first surface 32a or 32b of the base material 31 and a side surface 362 and 372 different from the attachment surface 361; and a coating film 38 formed on the second surface 33 of the base material 31 and the side surface 362 and 372 of the attachment component 35.

No. of Pages : 33 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/08/2021

(21) Application No.202114037699 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC TRANSMISSION CONTROL DEVICE

(51) International classification	:B60W0020000000, B60W0010080000, B60W0020300000, B60K0006387000, B60K0006380000
(31) Priority Document No	:2020-159782
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)AKAGAWA, Shinya

(57) Abstract :
Included are an engine 2, a motor 4, a transmission 3 that changes a speed of rotation of the engine 2 and transmits the rotation to a drive shaft 11, a clutch 31 that releases or connects power transmission between the engine 2 and the drive shaft 11, and a control unit 8 that changes a releasing speed of the clutch 31 in a clutch releasing process during a speed change of the transmission 3 and causes the motor 4 to output speed-change assist torque at a timing according to an output state of torque of the motor 4 at a start of the speed change of the transmission 3.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/08/2021

(21) Application No.202114037725 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUDIO MODIFICATION USING INTERCONNECTED ELECTRONIC DEVICES

(51) International classification	:G06Q0030060000, F03D0015100000, H04W0004029000, G06Q0010080000, F03D0009250000
(31) Priority Document No	:63/081,658
(32) Priority Date	:22/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)BERGERON, Kathleen A.
2)SIAHAAN, Edward
3)TERLIZZI, Jeffrey J.

(57) Abstract :
Systems and methods are provided for reducing unwanted noise in an electronic audio signal, wherein a computing device having a microphone is configured to receive signals from a sensor on an external device such as a camera, second microphone, or movement sensor. The signals from the sensor are used to identify sound information or characteristics of sounds made by a source of noise, and the audio signal of the microphone is modified to reduce unwanted sounds based on that sound information or based on sounds identified a second audio signal obtained by the second microphone, thereby improving teleconference and video conference audio quality and removing distracting noises from transmitted audio output.

No. of Pages : 49 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/08/2021

(21) Application No.202114038558 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC TRANSMISSION CONTROL DEVICE

(51) International classification	:F16D0048060000, B60W0010060000, B60W0020000000, B60W0010020000, F16H0063500000
(31) Priority Document No	:2020-159783
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)AKAGAWA, Shinya

(57) Abstract :
Included are an engine 2, a motor 4, a transmission 3 that changes a speed of rotation of the engine 2 and transmits the rotation to a drive shaft 11, a clutch 31 that releases or connects power transmission between the engine 2 and the drive shaft 11, and a control unit 8 that increases an operation speed of the clutch 31 in a predetermined allowance period in which change in clutch torque output to the transmission 3 is allowed during a speed change period of the transmission 3.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/08/2021

(21) Application No.202114038694 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC TRANSMISSION CONTROL DEVICE

(51) International classification	:B60W0010060000, F16H0063500000, B60W0010080000, B60K0006547000, B60W0010020000
(31) Priority Document No	:2020-159790
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)AKAGAWA, Shinya

(57) Abstract :
There is provided an automatic transmission control device provided to a hybrid vehicle 1 including an engine 2, a motor 4, a transmission 3 that changes a speed of rotation of the engine and transmits the rotation to a drive shaft 11, a clutch 31 that releases or connects power transmission between the engine and the drive shaft, the automatic transmission control device includes a control unit 8 that, in a predetermined allowance period during a speed change period of the transmission, in which a clutch torque to be output from the transmission (3) is allowed to be changed, increases an operation speed of the clutch, and causes an assist torque to be output from the motor according to a change of the clutch torque in response to the increased operation speed.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/08/2021

(21) Application No.202114038959 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CALCULATOR AND RECORDING MEDIUM

(51) International classification	:G06F0015020000, H04W0072140000, G01R0019165000, A63F0013420000, G06F0007500000
(31) Priority Document No	:2020-156506
(32) Priority Date	:17/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)Hiroaki YOSHIZAWA

(57) Abstract :
A calculator (1) includes: at least one processor (11) configured to execute a program stored in a storing unit (12), wherein the at least one processor: determines in which of a first operation method and a second operation method an operation key is operated after a first numerical value is input, executes specific calculation for the first numerical value using a second numerical value set as an argument, when determining that the operation key is operated in the first operation method, and sets the first numerical value as the argument, when determining that the operation key is operated in the second operation method.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2021

(21) Application No.202114039218 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC TRANSMISSION CONTROL DEVICE

(51) International classification	:B60W0020000000, B60W0010080000, B60W0010060000, B60W0010110000, B60K0006387000
(31) Priority Document No	:2020-159784
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)AKAGAWA, Shinya

(57) Abstract :
There is provided an automatic transmission control device mounted on a hybrid vehicle 1 including an engine 2, a motor 4, a transmission 3 that changes a speed of rotation of the engine and transmits the rotation to a drive shaft 11, and a clutch 31 that releases or connects power transmission between the engine and the drive shaft, the an automatic transmission control device including a control unit 8 that, in a clutch releasing process during a speed change of the transmission, changes a releasing speed of the clutch and causes the motor 4 to output a speed-change assist torque, at a timing according to an output state of torque of the motor at a start of the speed change of the transmission.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/08/2021

(21) Application No.202114039482 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BACKWARDS-COMPATIBLE HIGH DYNAMIC RANGE (HDR) IMAGES

(51) International classification	:G06T0005000000, H04N0005355000, H04W0056000000, H04N0019186000, H04N0005235000
(31) Priority Document No	:17/029,800
(32) Priority Date	:23/09/2020
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)JOHNSON, Garrett M.
2)HUBEL, Paul M.

(57) Abstract :
Devices, methods, and program storage devices for creating and/or displaying backwards-compatible High Dynamic Range (HDR) images are disclosed, comprising: obtaining two or more exposures of a scene; creating a gain map based on at least one of the two or more exposures, wherein the gain map comprises a plurality of pixels each corresponding to a portion of the scene, and wherein values of the pixels in the gain map comprise indications of a brightness level of the corresponding portions of the scene; combining the two or more exposures to form a first image; tone mapping the first image based on a Standard Dynamic Range (SDR) format to generate a first SDR image of the scene; and storing the first SDR image and created gain map in a first enhanced image file. The first enhanced image file may be, e.g., a HEIF, HEIC, PNG, GIF, JPEG, or other suitable file format.

No. of Pages : 36 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2021

(21) Application No.202114039763 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEMS AND METHODS FOR CONTROLLING A WIND TURBINE

(51) International classification	:F03D0007020000, F03D0007040000, F03D0001060000, F03D0017000000, F03D0009250000
(31) Priority Document No	:17/027789
(32) Priority Date	:22/09/2020
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Samuel Bryan Shartzer
2)Scott Charles Evans
3)Dhiraj Arora
4)Bernard P. Landa
5)Joerg Wanink

(57) Abstract :
A system and method are provided for controlling a wind turbine of a wind farm. Accordingly, a controller determines a performance differential for the wind turbine at multiple sampling intervals of a yaw event. The controller determines a trendline for the wind turbine correlating the performance differential to a deviation of a wind direction at each of the multiple sampling intervals from an first yaw angle. A difference between an angle associated with the vertex of the trendline and the first yaw angle are utilized by the controller to determine a yaw angle offset. The yaw angle offset is used to adjust a second yaw angle of the wind turbine.

No. of Pages : 37 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2021
(21) Application No.202114039850 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HARMONIC DISTORTION REDUCTION SYSTEM FOR CONVERTERS CONNECTED TO A COMMON BUS

(51) International classification	:H02M0001000000, H02M0007538700, H02M0001140000, H02J0001100000, G06T0003400000
(31) Priority Document No	:17/030,562
(32) Priority Date	:24/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)Ajith Kuttannair Kumar
2)Subhas Chandra Das

(57) Abstract :
A system is provided that may include plural converters that are connected to a common bus. Each of the converters may be configured to convert an alternating current (AC) through the common bus to a direct current (DC) by alternating switches of each of the plural converters between open and closed states in a switching cycle. The system may also include a controller circuit that may be configured to adjust the AC conducted onto the common bus to the plural converters so that a root mean square of a ripple current component of the AC meets one or more designated criteria.

No. of Pages : 49 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2021
(21) Application No.202114039865 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SENSOR SYSTEM AND METHOD FOR POSITION OR ANGLE DETECTION

(51) International classification	:H04N0005232000, G02B0026080000, E02F0009200000, F15B0015280000, G01J0001040000
(31) Priority Document No	:17/026,137
(32) Priority Date	:18/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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 :**
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1)Christian L. KAMP
2)Thomas LAMPE
3)Tobias FECHTEL
4)Mathias GREWE

(57) Abstract :
A sensor system and method of operating the sensor system can include an indicator that is operable in resonance, the indicator being connected to a movable element of an actuator, and a sensor including sensor windings arranged in direct proximity to the indicator and external to a closed housing. The sensor can receive a position or an angle of the indicator, and can measure the position or the angle of the movable element inside the actuator through the closed housing based on inductive resonance facilitated by the indicator.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2021
(21) Application No.202114040083 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ACCESS CONTROL WITH READER TO READER COMMUNICATION

(51) International classification	:G07C0009000000, G07C0009270000, H04L0029060000, G07C0009280000, H04W0048020000
(31) Priority Document No	:62/706,925
(32) Priority Date	:18/09/2020
(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

(71)**Name of Applicant :**
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1)SHAIKH, Nadeem
2)LINGALA, Ramesh
3)NANDA, Avineet
4)THAKUR, Anil Kumar
5)NOVOZHENETS, Yuri

(57) Abstract :
ABSTRACT ACCESS CONTROL WITH READER TO READER COMMUNICATION An access control system and a method for operating an access control system are provided. The access control system includes a first access control device and a second access control device, each configured to receive a signal (e.g., an access credential) from a user device. The signal has a first signal strength at the first access control device and a second signal strength at the second access control device. Each of the first access control device and the second access control device include a processor configured to compare the first signal strength and the second signal strength to determine whether the first access control device or the second access control device is closest to the user device. The processor of the access control device closest to the user device may be configured to determine whether the access credential is authorized.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2021

(21) Application No.202114040112 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND NON-TRANSITORY COMPUTER READABLE MEDIUM

(51) International classification	:A61B0005000000, H04L0025020000, G06F0021310000, A63B0071060000, G08B0021040000
(31) Priority Document No	:2020-160089
(32) Priority Date	:24/09/2020
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Koichiro MITSUI
2)Akiko TANGE

(57) Abstract :
A method according to the present application is a method performed by a system including an information processing device and a terminal device. The method further including: acquiring information about a life rhythm of a child; determining a timing for performing a suggested behavior as a behavior for bringing the life rhythm close to a target rhythm by a user as a caregiver of the child based on a comparison result between the life rhythm and the target rhythm as a target; and notifying the user of the timing determined at the determining.

No. of Pages : 67 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2021

(21) Application No.202114040121 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : EXPANSION SLEEVE APPARATUS AND METHOD FOR FLOW CONTROL VALVE

(51) International classification	:G05D0007010000, H02K0005240000, F16B0013060000, F16K0001120000, F16K0031080000
(31) Priority Document No	:17/026,182
(32) Priority Date	:19/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)Igor Grigorjew

(57) Abstract :
An expansion sleeve apparatus comprising one or more layers configured from a material having a scalable volumetric porosity and enhanced noise reduction properties, wherein the expansion sleeve surrounds a flow control valve that is operable with a bidirectional flow of fluid through the flow control valve.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2021

(21) Application No.202114040126 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PRODUCING SMOOTH AND NON-STICKY ELASTOMERIC ARTICLE

(51) International classification	:A41D0019000000, B29C0041140000, B29L0031480000, A61B0042000000, B29K0021000000
(31) Priority Document No	:PI2020004819
(32) Priority Date	:17/09/2020
(33) Name of priority country	:Malaysia
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)WONG CHONG BAN
2)LING SIEW SZEN
3)LOW MENG LAI
4)KEE HUI MIN

(57) Abstract :
This invention relates to a smooth and non-sticky elastomeric article, more particularly gloves and a method for producing the elastomeric articles such that they can be stripped from a mould without leaving chemical residues thereby providing a clean mould for later processes.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/09/2021
(21) Application No.202114040412 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ULTRASONIC FLOWMETER WITH VIBRATION-RESISTANT OPERATING MODE

(51) International classification	:G01F0001660000, G01N0029120000, G01F0015180000, G01F0015140000, G01H0003120000
(31) Priority Document No	:17/025,877
(32) Priority Date	:18/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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

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1)CHEN, Longfei
2)SAI, Bin
3)CHEN, MeiFa

(57) Abstract :
An ultrasonic flowmeter (USM) includes a meter body including a pipe section for flowing a fluid therethrough including a first and second ultrasonic transducer, top-works including a housing and a PCB, a controller coupled to the ultrasonic transducers through a transmitter and/or receiver, and an accelerometer and/or an acoustic sensor for sensing a vibration on the pipe section and for providing an output signal coupled to the controller. The electronics are communicatively coupled to the meter body and the housing is mechanically coupled to the meter body. The controller analyzes the output signal to identify =1 vibration frequency and compares the vibration frequency to a predetermined sensitive frequency range for the USM. When the vibration frequency is determined to be within the predetermined frequency range, the controller implements an anti-vibration operating mode by increasing a measurement time when measuring the fluid flow and/or adding additional data processing task(s).

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/09/2021

(21) Application No.202114040776 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : KEYBOARD INSTRUMENT

(51) International classification	:G10B0003000000, A61M0005142000, F24F0003160000, F21S0008020000, G11C0005140000
(31) Priority Document No	:2020-158598
(32) Priority Date	:23/09/2020
(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

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2)Kouji OSHIMA
3)Naoto IMAMURA
4)Yuuki NAKAJIMA
5)Mari NAKAJIMA
6)Ryohei KOBAYASHI

(57) Abstract :
A keyboard instrument 10 includes: a case 20 (upper case 21) including a back surface member 202 having an insertion port 211 into which a music stand 50 is inserted, and an upper surface member 201 having a recessed portion 212 provided corresponding to the insertion port 211 ; and an exterior member 5 that is disposed on an upper side Up of the upper surface member 201 and covers the recessed portion 212.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/09/2021
(21) Application No.202114040810 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ASSIST CONTROL DEVICE FOR VEHICLE

(51) International classification	:B60W0010060000, B60W0010080000, B60K0006480000, F02D0029020000, B60W0030045000
(31) Priority Document No	:2020-159792
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)Hayato IINO
2)Kosuke SUZUKI

(57) Abstract :
To be provided is an assist control device for a vehicle that can assure driving performance in slope climbing and ensure safety of the vehicle even when a remaining battery capacity is decreased. [Solution] Included are a high-voltage battery (6), a motor (4) that outputs driving force to a driving wheel (10) by means of electric power from the high-voltage battery (6), an engine (2) that outputs driving force to the driving wheel (10) via a clutch (31), and a control unit (8) that performs a plurality of assist control operations for assisting the driving force of the engine (2) by the driving force of the motor (4), wherein the control unit (8) performs a plurality of assist control operations and restricts performing of the plurality of assist control operations in a stepwise manner as a remaining capacity of the high-voltage battery (6) decreases, and last restricts performing of an assist control operation for improving slope-climbing performance by assisting the driving force of the engine (2) by the driving force of the motor (4) on a sloped road having a gradient greater than or equal to a predetermined gradient.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/09/2021

(21) Application No.202114041005 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SELF-HEALING PROCESS CONTROL SYSTEM

(51) International classification	:G06Q0010080000, G06F0012020000, A61B0003000000, G06F0001328700, A45B0025140000
(31) Priority Document No	:16/948,565
(32) Priority Date	:23/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)Paul Francis MCLAUGHLIN
2)Christopher Paul LADAS

(57) Abstract :
An implementation is for one or more hardware-based non-transitory memory devices storing computer-readable instructions which, when executed by the one or more processors disposed in a computing device, cause the computing device to monitor a logic block and a memory block to detect a fault condition, determine a subset of the logic block or the memory block that is impacted by the fault condition, and perform at least one action on the logic block and the memory block.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/09/2021

(21) Application No.202114041059 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : COMPRESSED AIR DRYING UNIT

(51) International classification	:B01D0053260000, B60T0017000000, F26B0021000000, B01D0053040000, D21F0005180000
(31) Priority Document No	:17/025,446
(32) Priority Date	:18/09/2020
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MARK, Henry Y.
2)JOHNSON, Scott A.
3)VEZIL, Stefano

(57) Abstract :
An air drying unit for compressed air systems is provided. The air drying unit has a precooler/reheater, a main cooler and a moisture separator. Incoming air is cooled to cause moisture within the compressed air to condense, which is then separated to dry the compressed air. The precooler/reheater, main cooler and moisture separator are designed as an integral unit that does not require pipes to connect the components together. Instead, compressed air flows through the sealed unit through passages therein between the precooler/reheater, main cooler and moisture separator.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/09/2021

(21) Application No.202114041062 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AIR FILTER FOR COMPRESSED AIR

(51) International classification	:B01D0046000000, B01D0046520000, B01D0046420000, B01D0046240000, B01D0046100000
(31) Priority Document No	:17/025443
(32) Priority Date	:18/09/2020
(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

(71)**Name of Applicant :**
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1)MARK, Henry Y.
2)JAKOP, Janez
3)JOHNSON, Scott A.

(57) Abstract :
A filter for compressed air systems is provided. The filter includes a filter housing with a filter therein between an air inlet and an air outlet. Compressed air flowing between the air inlet and the air outlet passes through the filter housing and the filter element. A base is removably fastened to the filter housing which may be separated from the filter housing to allow the filter element to be removed and replaced.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/09/2021

(21) Application No.202114041124 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ULTRASONIC TRANSDUCER HEALTH STATUS MONITOR

(51) International classification	:B06B0001060000, G01S0015040000, G01N0029240000, B06B0001020000, G01F0023296000
(31) Priority Document No	:17/025,685
(32) Priority Date	:18/09/2020
(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

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1)CHEN, Longfei
2)SAI, Bin
3)LIU, Binbing

(57) Abstract :
An ultrasonic-based system includes a transmitter and receiver, an ultrasonic transducer including =1 piezoelectric element having a matching layer thereon connected to the transmitter. A controller is coupled to the transmitter. The transmitter is for driving the piezoelectric element with a pulsed electrical signal, where the piezoelectric element transmits a transmit ultrasonic signal. A current/voltage measurement circuit is coupled to sense a current or voltage in the transmitter. The controller is for implementing an algorithm for an ultrasonic transducer monitoring method including comparing an amplitude of the pulsed signal to a predetermined limit. When the pulsed signal is determined to be outside the limit, an impedance of the piezoelectric element is determined to be abnormal. When the pulsed signal is within the limit, the amplitude of the received signal is compared to a lower limit, which when below results in determining a cleaning operation for the ultrasonic transducer is needed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/09/2021

(21) Application No.202114041203 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : INSTALLATION FOR PLAYING TABLE TENNIS

(51) International classification	:A63B0067040000, E06B0003480000, B65H0001040000, H02S0020000000, F24S0025100000
(31) Priority Document No	:2009441
(32) Priority Date	:17/09/2020
(33) Name of priority country	:France
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)DUPONT DE DINECHIN, JEAN-MARIE
2)GEVAERT, GUILLAUME

(57) Abstract :
An installation (10) for playing table tennis comprising a base (14) comprising a first upright (22); a panel (16) pivoting with respect to the first upright between an unfolded position and a folded position; a first support element (32) comprising a pivot portion (34) mounted pivotably with respect to the panel and an attachment portion (36) configured to cooperate with a net (N) a first crank (38) attached to said pivot portion; a first rod (40) mounted pivotably with respect to said first upright and mounted pivotably, so that its attachment portion extends perpendicular to the panel when said panel is in the unfolded position, and so that its attachment portion extends parallel to the panel when said panel is in the folded position.

No. of Pages : 39 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/09/2021

(21) Application No.202114041281 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DIPHOSPHITES HAVING AN OPEN, 2,4-METHYLATED OUTER UNIT

(51) International classification	:C07F0009657400, F24F0011300000, F24F0011620000, C12Q0001688600, A61K0008600000
(31) Priority Document No	:20197484.7
(32) Priority Date	:22/09/2020
(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

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2)FRANKE, Robert
3)BRÄCHER, Alexander
4)FRIDAG, Dirk
5)KNOSSALLA, Johannes

(57) Abstract :
Diphosphites having an open, 2,4-methylated outer unit and use thereof in hydroformylation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/09/2021

(21) Application No.202114041412 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : GEOSPATIAL AGGREGATING AND LAYERING OF FIELD DATA

(51) International classification	:G06F0016290000, G06T0017050000, H04L0012729000, G06F0016953700, E21B0043140000
(31) Priority Document No	:17/024,308
(32) Priority Date	:17/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)TATGE, Jason G.
2)CARENZA, Jonathan S.
3)TYNES, Sarah Michelle
4)GROVES, Tyrone Avery

(57) Abstract :
Embodiments relate to storing farming activity values into geospatial containers associated with a spatial grid system, and generating data analytics therefrom. Pulse data collected by a data collection device and associated with a swath width of a farming implement can be obtained. A pulse polygon can be generated based on the swath width and location information included in the pulse data. The pulse polygon can be translated into at least one grid cell of a plurality of grid cells of a spatial grid system, such that the at least one grid cell geographically corresponds to the pulse polygon. Relevant data points extracted from the pulse data can be stored into a geospatial container generated for each grid cell of the at least one grid cell. Any of the geospatial containers can thus be selectively analyzed, independently or in combination with other geospatial containers, to derive accurate insights therefrom.

No. of Pages : 55 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2021

(21) Application No.202114041585 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEMS AND METHODS FOR MONITORING ENERGY-RELATED DATA IN AN ELECTRICAL SYSTEM

(51) International classification	:G06Q0050060000, H02J0013000000, H04B0003540000, H02J0003240000, H02H0001000000
(31) Priority Document No	:17/028,451
(32) Priority Date	:22/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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 :**
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(57) Abstract :
A method for monitoring energy-related data in an electrical system includes processing energy-related data from or derived from energy-related signals captured by at least one intelligent electronic device in the electrical system to identify at least one variation/change in the energy-related signals. The method also includes determining if the at least one identified variation/change meets a prescribed threshold or thresholds, and in response to the at least one identified variation/change meeting the prescribed threshold or thresholds, characterizing and/or quantifying the at least one identified variation/change. Information related to the characterized and/or quantified at least one identified variation/change is appended to timeseries information associated with the energy-related data, and characteristics and/or quantities associated with the time-series information are evaluated to identify at least one potential load type associated with the characterized and/or quantified at least one identified variation/change.

No. of Pages : 63 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2021

(21) Application No.202114041659 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DIFFRACTIVE PIGMENT

(51) International classification	:G02B0005180000, G02B0027420000, B42D0025328000, G03H0001000000, G03H0001260000
(31) Priority Document No	:17/025,824
(32) Priority Date	:18/09/2020
(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

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2)LIANG, Kangning
3)SEYDEL, Johannes P.
4)ZIEBA, Jaroslaw

(57) Abstract :
A diffractive pigment includes diffractive pigment, includes a stack including alternating layers of a high refractive index layer and a low refractive index layer, in which the high refractive index layer is a composition including an organic material and high refractive index inorganic nanoparticles; in which at least one layer of the stack is embossed. A method of making a diffractive pigment is also disclosed

No. of Pages : 37 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2021

(21) Application No.202114041671 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRODUCTION PROCESSING APPARATUS

(51) International classification	:G06Q0030000000, G06Q0010060000, G06Q0050040000, G05B0019418000, B65B0009200000
(31) Priority Document No	:2020-157236
(32) Priority Date	:18/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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 :**
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1)ICHIKAWA, Makoto
2)HASHIMOTO, Satoshi
3)YAMANE, Masayuki
4)KOIKE, Tomoko

(57) Abstract :
The present invention reduces the possibility that poor-quality products are distributed to market. The bag-making and packaging apparatus is a production processing device used in quality management of foodstuffs. The bag-making and packaging apparatus includes a control part , a storage part , and an acquisition part. The control part changes an action performed by the individual parts. The storage part stores an inspection item pertaining to quality management of the foodstuffs. The acquisition part acquires an inspection result pertaining to the inspection item. The control part determines at least one of the following: whether or not the inspection result has been inputted to the acquisition part, whether the input of the inspection results inputted to the acquisition part is normal or not, and whether the inspection result acquired by the acquisition part is good or not. The control part changes the action based on the result of the determination.

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2021

(21) Application No.202114041684 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : GESTURE-BASED CALL CENTER AGENT STATE CHANGE CONTROL

(51) International classification	:G06F0003010000, G06F0003048800, G06F0003048200, G06F0008656000, G11B0027110000
(31) Priority Document No	:17/029,775
(32) Priority Date	:23/09/2020
(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

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1)MENDIRATTA, Harsh V.
2)CHAVEZ, David
3)YOUNG, John A.

(57) Abstract :
Users of a networked communication device may omit updating their availability state, and that of an associated communication device, if the state change is sudden or believed to be of sufficiently short duration. By quickly changing their state, a routing component may more accurately know whether or not a communication routed to the communication device will or will not be answered. By utilizing a camera and gesture processing logic, a user may naturally and quickly update their state without the need to navigate menus or select options with manual, tactile interactions with the communication device.

No. of Pages : 46 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/09/2021
(21) Application No.202114041686 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : THROTTLE CABLE SUPPORT STRUCTURE FOR VEHICLE

(51) International classification	:B63H0021210000, G05G0001320000, B62J0011130000, F02D0011020000, B62J0035000000
(31) Priority Document No	:2020-158678
(32) Priority Date	:23/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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

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1)Kota NAKAUCHI

(57) Abstract :
Provided is a throttle cable support structure for a vehicle capable of reducing the size of a cable support stay and reducing the number of components. In a throttle cable support structure for a motorcycle including an intake device for an engine, the intake device including an intake pipe 71 connected to a cylinder portion, a throttle body 72 connected to the intake pipe 71, and a cable support stay 71a that supports a first throttle cable 81 and a second throttle cable 82 connected to the throttle body 72, the cable support stay 71a, to which a first cable support member 83 and a second cable support member 84 are fastened, is integrated with the intake pipe 71, the first cable support member 83 and the second cable support member 84 including a first support cylinder 98 and a second support cylinder 103 which a first throttle cable 81 and a second throttle cable 82 are inserted through and supported by.

No. of Pages : 49 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/09/2021

(21) Application No.202114041877 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVICE FOR POSITIONING ELECTRICALLY CONDUCTIVE SEGMENTS OF A WINDING OF A STATOR

(51) International classification	:H01Q0021060000, H02K0015060000, H01B0011100000, H01F0005000000, G01R0033300000
(31) Priority Document No	:20198239.4
(32) Priority Date	:24/09/2020
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:NA :NA
(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

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1)CIUK, Daniel
2)MANDOK, Wojciech
3)SKRZYPCZAK, Miroslaw
4)ZEBROWSKI, Marcin

(57) Abstract :
The present invention relates to a device (1) for positioning electrically conductive segments of a winding (5) of a stator of a rotary electrical machine, comprising at least one rotative ring (2;3) with at least one cam arranged around a revolution axis, the rotative ring (2;3) being arranged to set in a radial motion at least two series of fingers (6;7;8) to ensure the position of the conductive segments, wherein the two series of fingers (6;7;8) are set in motion in opposite directions one to the other, such that a finger of a first series of fingers (6) and a finger of a second series of fingers (7) are configured to press two conductive segments of a pair of segments against each other

No. of Pages : 37 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/09/2021

(21) Application No.202114041884 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MATRIX-ARRAY DETECTOR WITH A PLURALITY OF GROUPS OF DRIVER MODULES AND METHOD FOR IMPLEMENTING THE DETECTOR

(51) International classification	:H04N0005378000, G06F0011140000, H04R0029000000, H04N0005374000, G01N0021470000
(31) Priority Document No	:2009457
(32) Priority Date	:18/09/2020
(33) Name of priority country	:France
(86) International Application No Filing Date	:NA :NA
(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

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3)HORDEQUIN Chantal

(57) Abstract :
The invention relates to a matrix-array detector and to a method for implementing the detector. The detector comprises: - an array of pixels that are sensitive to a physical effect and arranged in a matrix along rows and down columns, each pixel generating a signal according to the physical effect; - row conductors (L), each allowing the pixels of one row to be driven; - a first group (A) of driver modules (SR_A) each delivering selection signals (Out_A) to one row conductor (L) of a first group of row conductors; - a second group (B) of driver modules (SR_B) each delivering selection signals (Out_B) to one row conductor (L) of a first group of row conductors; the first and second groups of row conductors being interlaced.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2021

(21) Application No.202114042139 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : POWER STORAGE DEVICE

(51) International classification	:H01M0002100000, H01M0002160000, B60W0010260000, H01M0010625000, H01G0011780000
(31) Priority Document No	:2020-158383
(32) Priority Date	:23/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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

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3)Hiromi UEDA
4)Satoshi MORIOKA
5)Motoyoshi OKUMURA

(57) Abstract :
The extraction portion is configured to include a first piece portion extending in a direction orthogonal to the first direction from an outer edge portion provided on an edge of the flat plate portion when viewed from the first direction, a second piece portion extending in the first direction and having an attachment portion that attaches the extraction portion, and a bent portion being where a plate material configuring the extraction portion bends, and connecting the first piece portion and the second piece portion. A spring portion that is configured to relieve a stress acting on the extraction portion is provided between the connection portion to the outer edge portion and the attachment portion in the extraction portion. The spring portion includes at least a first bent portion being where the plate material bends other than at the bent portion.

No. of Pages : 43 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2021

(21) Application No.202114042155 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FALSE-TWIST TEXTURING MACHINE

(51) International classification	:D02G0001020000, D02G0001060000, D02J0013000000, D02G0001040000, D02G0001080000
(31) Priority Document No	:2020-158750
(32) Priority Date	:23/09/2020
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)NAGAI, Norihiro

(57) Abstract :
A false-twist texturing machine 1 includes a tension detection device 20 which detects an untwisting tension of a yarn Y traveling between yarn feeding packages P1 and P2 and a winding package P3; a switching detection device 30 which detects that the yarn feeding package supplying the yarn Y is switched from one yarn feeding package P1 to the other yarn feeding package P2; and an information processing device 40 which calculates a period of movement time at which a knot C of a yarn end Y1 of one yarn feeding package P1 and a yarn end Y2 of the other yarn feeding package P2 is expected to move in the tension detection device 20 based on the detection result of the switching detection device 30 and extracts and stores tension data group corresponding to the period of movement time from the detection result of the tension detection device 20.

No. of Pages : 48 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2021
(21) Application No.202114042176 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATED IDENTIFICATION AND USE OF BUILDING FLOOR PLAN INFORMATION

(51) International classification	:G06Q0050160000, G06F0030130000, G06F0011070000, G06F0008650000, G05B0015020000
(31) Priority Document No	:63/081,744
(32) Priority Date	:22/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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 :**
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(72)**Name of Inventor :**
1)Yu Yin
2)Yujie Li
3)Will Adrian Hutchcroft
4)Sing Bing Kang
5)Pierre Moulon
6)Ivaylo Boyadzhiev

(57) Abstract :
Techniques are described for using computing devices to perform automated operations for identifying building floor plans that have attributes satisfying target criteria and for subsequently using the identified floor plans in further automated manners. In at least some situations, the identification of such building floor plans is based on generating and using adjacency graphs generated for the floor plans that represent inter-connections between rooms and other attributes of the buildings, and in some cases is further based on generating and using embedding vectors that concisely represent the information of the adjacency graphs. Information about such identified building floor plans may be used in various automated manners, including for controlling navigation of devices (e.g., autonomous vehicles), for display on client devices in corresponding graphical user interfaces, for further analysis to identify shared and/or aggregate characteristics, etc.

No. of Pages : 138 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2021

(21) Application No.202114042268 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF OPERATING A BATTERY FOR A SECOND LIFE

(51) International classification	:H01M0010420000, H01M0010480000, H01M0010440000, G08B0021020000, H02J0007000000
(31) Priority Document No	:102020211763.2
(32) Priority Date	:21/09/2020
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:NA :NA
(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

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(72)**Name of Inventor :**
1)GLEITER, Andreas
2)TIEFENBACH, Andy
3)MANKA, Daniel

(57) Abstract :
Method for operating a battery for a second service life (second-life operation).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/09/2021

(21) Application No.202114042442 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HEALTH SENSING BATHROOM DEVICE

(51) International classification	:A61B0005000000, G02B0026080000, A47K0001020000, A61B0005024000, A41D0001000000
(31) Priority Document No	:63/082,237
(32) Priority Date	:23/09/2020
(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

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1)Rafael Rexach
2)Jiunntyng CHEN

(57) Abstract :
Various bathroom devices for the collection of data are described. In one example, a mirror cabinet includes a mirror frame, a sensor cavity, and a controller. The mirror frame is configured to support a mirror substrate that provides a reflection of one or more users in proximity of the mirror cabinet. The sensor cavity coupled to the mirror frame and is configured to support a sensor for detecting a health condition of the one or more users in proximity to the mirror cabinet. A controller is configured to analyze data received from the sensor to determine the health condition.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/09/2021

(21) Application No.202114042573 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : RAPID DISCHARGE OF POWER NODES

(51) International classification	:G01R0031120000, H01L0021670000, H04W0028020000, H04W0072040000, H01L0021683000
(31) Priority Document No	:17/031,764
(32) Priority Date	:24/09/2020
(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

(71)**Name of Applicant :**
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1)SEARLES, Shawn
2)GOZZINI, Fabio

(57) Abstract :
A method and apparatus for rapid discharge of power rails is disclosed. A circuit includes a power converter circuit includes an inductor coupled between a switch node and regulated power supply node. A first device is coupled between an input power supply node and the switch node, while a second device is coupled between the switch node and a ground node. The power converter is configured to generate a particular voltage level on the regulated power supply node by controlling the first and second devices. The circuit also includes a control circuit which, in response to receiving a discharge comment, repeatedly activates and deactivates the second device to discharge, via the switch node and the inductor, the regulated power supply node.

No. of Pages : 38 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202114042856 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FOLDABLE AND RIGID DOCKING STATIONS FOR CHARGING MULTIPLE DEVICES

(51) International classification	:H02J0007000000, H02J0007020000, G06F0001160000, H01M0010420000, B60L0001000000
(31) Priority Document No	:63/082,263
(32) Priority Date	:23/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:NA :NA
(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

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2)WALTON, Christopher J.
3)HAUG, Grant S.

(57) Abstract :
Wireless chargers that can properly align and securely hold an electronic device, provide power to more than one electronic device, and fold into a compact shape. One example can provide a wireless charger having an alignment feature to align an electronic device to the wireless charger. The wireless charger can further include an attachment feature to attach the electronic device to the wireless charger such that the electronic device is securely held in place relative to the wireless charger. The wireless charger can include a first leaf having first charging components for charging a first electronic device and a second leaf having second charging components for charging a second electronic device. The first leaf and the second leaf can fold together into a compact shape.

No. of Pages : 146 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202114042970 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VERMICULAR CAST IRON ALLOY, COMBUSTION ENGINE BLOCK AND HEAD

(51) International classification	:C22C0037000000, C22C0037100000, C22C0033080000, F02F0007000000, F02F0001000000
(31) Priority Document No	:BR 10 2020 019029 6
(32) Priority Date	:23/09/2020
(33) Name of priority country	:Brazil
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
1)CARLOS DE SOUZA CABEZAS
2)EITAN MELLERAS
3)MARIA FURBINO MARTINS

(57) Abstract :
The present invention refers to a vermicular cast iron alloy specially designed for blocks and heads of internal combustion engines that have special requirements for mechanical strength and machinability; said vermicular alloy has a microstructure that results in high values of mechanical properties, such as a minimum strength limit of 500 Mpa, a minimum yield limit of 350 MPa, along with good machinability; also, wherein the ferritization factor must be such that it is between 3.88 and 5.48. This set of properties makes it possible to design new engine blocks and heads with complex geometry, high mechanical properties, without compromising machinability, making it attractive both from a technical and economic point of view

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/09/2021

(21) Application No.202114043021 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : RATE ADAPTATION

(51) International classification	:H04L0001000000, F02D0041240000, G10L0019005000, C07D0413140000, H04W0088180000
(31) Priority Document No	:20205925
(32) Priority Date	:24/09/2020
(33) Name of priority country	:Finland
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)AIT AOUDIA, Faycal
2)HOYDIS, Jakob

(57) Abstract :
This specification describes an apparatus relating to rate adaptation. The apparatus may comprise a processor and a memory including instructions, the instructions, when executed by the processor, cause the apparatus to provide first data representing an estimate of a communications link based on a signal received over said communications link from a transmitter. The apparatus may determine an estimated achievable data rate over said communications link for each of a plurality of link configurations which have respective combinations of modulation scheme and pilot symbol pattern which correspond to one or more transmitter link configurations, the estimated achievable data rate for a particular link configuration being determined based on the first data, and the modulation scheme and the pilot pattern of the particular reference link configuration. The apparatus may select a transmitter link configuration based on the estimated achievable data rates

No. of Pages : 41 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/06/2021

(21) Application No.202117027054 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : THERMOPLASTIC RESIN COMPOSITION, PREPARATION METHOD THEREFOR, AND MOLDED PRODUCT COMPRISING SAME

(51) International classification	:C08L0025120000, C08L0055020000, C08L0051040000, C08J0005000000, C08L0033120000
(31) Priority Document No	:10-2019-0132326
(32) Priority Date	:23/10/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/012988 :24/09/2020
(87) International Publication No	:WO 2021/080201
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LEE, Dae Woo
3)SEO, Jae Bum
4)PARK, Jung Tae
5)SHIN, Seongjae
6)JANG, Jiuk

(57) Abstract :
Disclosed are a thermoplastic resin composition, a preparation method therefor, and a molded product comprising same, and, more specifically, provided are a thermoplastic resin composition, a preparation method therefor, and a molded product comprising same, the thermoplastic resin composition comprising: (A) 55-70 wt% of a non-graft copolymer comprising 65-83 wt% of a (meth) acylic acid alkyl ester compound, 2-12 wt% of an N-substituted maleimide compound, 1-6 wt% of a vinyl cyanide compound and 7-17 wt% of an aromatic vinyl compound; (B) 20-42 wt% of an acrylate-based rubber-aromatic vinyl compound-vinyl cyanide compound graft copolymer comprising an acrylate-based rubber having an average diameter of 50-200 nm; and (C) 1-15 wt% of an acrylate-based rubber-aromatic vinyl compound-vinyl cyanide compound graft copolymer comprising an acrylate-based rubber having an average diameter of 300-600 nm, and thus the present invention has a very remarkable scratch resistance and coloring property even while having excellent weather resistance and heat resistance.

No. of Pages : 49 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/06/2021
(21) Application No.202117027343 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND APPARATUS FOR RANDOM ACCESS PROCEDURE

(51) International classification	:H04W0074080000, H04W0072120000, H04W0076270000, H04W0074000000, H04B0007060000
(31) Priority Document No	:62/909557
(32) Priority Date	:02/10/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/KR2020/012816 :23/09/2020
(87) International Publication No	:WO 2021/066379
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KIM, Soenghun

(57) Abstract :
The present 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). The present disclosure may be applied to intelligent services based on the 5G communication technology and the IoT-related technology, such as smart home, smart building, smart city, smart car, connected car, health care, digital education, smart retail, security and safety services. The present disclosure provides method and apparatus of performing random access procedure.

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/06/2021

(21) Application No.202117028148 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : THERMOPLASTIC RESIN COMPOSITION, PREPARATION METHOD THEREFOR, AND MOLDED PRODUCT COMPRISING SAME

(51) International classification	:C08L0025120000, C08L0055020000, C08L0051040000, C08L0067020000, C08J0005000000
(31) Priority Document No	:10-2019-0132327
(32) Priority Date	:23/10/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/012972 :24/09/2020
(87) International Publication No	:WO 2021/080199
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LEE, Dae Woo
3)SEO, Jae Bum
4)KIM, Gyu Sun
5)JANG, Jiuk

(57) Abstract :
Disclosed are a thermoplastic resin composition, a preparation method therefor, and a molded product comprising same, and, more specifically, provided a thermoplastic resin composition, a preparation method therefor, and a molded product comprising same, the thermoplastic resin composition comprising: (A) 65-85 wt% of a heat resistant copolymer comprising 76-92 wt% of a (meth)acrylic acid alkylester compound, 1-8 wt% of an N-substituted maleimide compound and 5-16 wt% of an aromatic vinyl compound; (B) 10-30 wt% of a graft copolymer of an acrylate-based rubber-aromatic vinyl compound-vinyl cyanide compound, comprising an acrylate-based rubber having an average diameter of 50-200 nm; and (C) 1-15 wt% of a graft copolymer of an acrylate-based rubber-aromatic vinyl compound-vinyl cyanide compound, comprising an acrylate-based rubber having an average diameter of 300-600 nm, wherein, in the range in which the weight ratio of the aromatic vinyl compound and the N-substituted maleimide compound in the (A) heat resistant copolymer is 1.5-8, the thermoplastic resin composition has excellent weather resistance and heat resistance and very remarkable coloration, processability and scratch resistance.

No. of Pages : 45 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/08/2021

(21) Application No.202117039219 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AUTOMATIC BEE SEPARATION DEVICE

(51) International classification	:A01K0047060000, A01K0047020000, A01K0059000000, G06K0009200000, A01K0059020000
(31) Priority Document No	:10-2019-0116107
(32) Priority Date	:20/09/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/012691 :21/09/2020
(87) International Publication No	:WO/2021/054795
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)JEONG, Hyuk

(57) Abstract :
The present invention relates to an automatic bee separation device and, more specifically, to an automatic bee separation device, by which a beehive received inside a bee box is automatically taken out and, at the same time, bee separation is automatically achieved, and the beehive can be received back in the bee box when the bee separation has been completed. The automatic bee separation device according to the present invention can automatically perform the work of taking out a beehive and the work of separating a bee, without requiring a worker to manually take out a beehive from a bee box by himself or herself at the time of the work of bee separation or honey collection after bee separation, and thus can reduce labor costs and maximize the speed and efficiency of work. Therefore, the productivity can be enhanced and thus the income can be increased.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/09/2021

(21) Application No.202117042294 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTING CONNECTION FAULT OF PARALLEL CONNECTION CELL

(51) International classification	:H04L0012700000, H01M0002020000, G01R0031396000, G01R0031540000, G01R0031500000
(31) Priority Document No	:10-2019-0122268
(32) Priority Date	:02/10/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/013013 :24/09/2020
(87) International Publication No	:WO/2021/066393
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)KIM, Jeong Wan

(57) Abstract :
The present invention relates to a method and a system for detecting a connection fault of a parallel connection cell, and, more particularly, to a method and a system for detecting a connection fault of a parallel connection cell, the method and the system providing improved accuracy for a battery being discharged through an operation of an external device by primarily detecting a cell connection fault through a CID operation of a corresponding battery or the opening of a parallel connection line, and finally confirming the primary detection result, through DCIR measurement, for the corresponding battery.

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/10/2021
(21) Application No.202117045822 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DIGITAL UP CONVERSER PROCESSING DEVICE AND INTERMEDIATE FREQUENCY LINK IN WIRELESS COMMUNICATION SYSTEM

(51) International classification	:H04B0001040000, H04B0001400000, H04L0025030000, H02J0050120000, H04B0001000000
(31) Priority Document No	:201910935350.X
(32) Priority Date	:29/09/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/116174 :18/09/2020
(87) International Publication No	:WO/2021/057617
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)YANG, Li
2)DU, Xin
3)YUN, Lina

(57) Abstract :
Disclosed are a digital up converser (DUC) processing device and an intermediate frequency link in a wireless communication system. The DUC processing device comprises: N main modules and a combination module, N being a positive integer greater than or equal to 1, each of the main modules comprising: a gain module, a shaping filtering module, a DUC module, a first frequency-mixing module and a second frequency-mixing module; an input end of the gain module is configured to input a carrier signal; an output end of the gain module is connected to both an input end of the shaping filtering module and an input end of the DUC module; an output end of the shaping filtering module is connected to both the input end of the DUC module and an input end of the second frequency-mixing module; an output end of the DUC module is connected to an input end of the first frequency-mixing module and the input end of the second frequency-mixing module; an output end of the second frequency-mixing module is configured to output the carrier signal; an output end of the first frequency-mixing module is connected to an input end of the combination module; and an output end of the combination module is connected to the input end of the shaping filtering module.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/10/2021

(21) Application No.202117048916 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MICROSTRIP ANTENNA AND INFORMATION DEVICE

(51) International classification	:H01L0043080000, H01Q0013100000, H01Q0009300000, B24B0055020000, H01Q0009040000
(31) Priority Document No	:2019-210671
(32) Priority Date	:21/11/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/035353 :17/09/2020
(87) International Publication No	:WO/2021/100307
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)FURUKAWA Minoru
2)Ma Zhewang

(57) Abstract :
A microstrip antenna according to one embodiment of the present disclosure is configured so that, in a square resonator provided with a first side and a second side that are parallel to a first direction and have a length corresponding to a 3/2 wavelength, and a third side and a fourth side that are parallel to a second direction orthogonal to the first direction: the square resonator has a notched shape from each of the first and second sides toward the center of the square resonator, and due to the notched shape, has a shape causing a second portion and a third portion to contribute to radiation characteristics, the second portion and third portion being in such a positional relationship as to face a first portion that serves as the peripheral side of the notched shape; the first-direction lengths of the first portion, the second portion, and the third portion each correspond to a 1/2 wavelength; the second-direction width of the first portion is less than the second-direction width of the second portion and the third portion due to the notched shape; and a power supply point is provided to the second portion or the third portion.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202117050246 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PRODUCING FLAME RETARDANT, AND FLAME RETARDANT RESIN COMPOSITION COMPRISING FLAME RETARDANT PRODUCED THEREBY

(51) International classification	:H01M0008107200, C01G0023053000, C09K0021120000, H01B0003440000, H01M0008124600
(31) Priority Document No	:10-2019-0120027
(32) Priority Date	:27/09/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/012766 :22/09/2020
(87) International Publication No	:WO/2021/060800
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)NAM, Ki Young
3)SIM, Jae Young
4)BAE, Seon Hyeong

(57) Abstract :
The present invention relates to a method for producing a flame retardant, and a flame retardant resin composition comprising the flame retardant produced by the method, the method comprising the steps of: preparing a metal precursor solution by adding a zinc precursor and a precursor containing M1 metal to a solvent; and adding acid or base to the metal precursor solution for a sol-gel reaction to produce a multi-component metal hydroxide expressed by chemical formula 1.

No. of Pages : 33 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051460 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS FOR SUPPORTING BSS EDGE USER TRANSMISSIONS

(51) International classification	:H04W0084120000, H04W0074080000, H04L0005000000, H04W0072040000, H04W0074000000
(31) Priority Document No	:62/846183
(32) Priority Date	:10/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/032137 :08/05/2020
(87) International Publication No	:WO/2020/231825
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)SUN, Li-Hsiang
2)LOU, Hanqing
3)SAHIN, Alphan
4)WANG, Xiaofei
5)YANG, Rui
6)LA SITA, Frank

(57) Abstract :
Methods and apparatuses for enhancing random access procedures are described herein. A method performed by an access point (AP) may comprise allocating a plurality of random access (RA) resource units (RA-RUs) for transmitting a message from a station (STA) to the AP over an upper or lower frequency band. The method may comprise transmitting, to a station (STA), one or more physical layer convergence procedure (PLCP) protocol data unit (PPDU) over the upper or lower frequency bands. Each of the one or more PPDUs may include a trigger frame, and the trigger frame may include an indication of the plurality of RA-RUs and a target received signal strength indicator (TRSSI) associated with at least one of the upper or lower frequency bands. The method may comprise receiving, in response to the trigger frame, the message from the STA in one of the plurality of RA-RUs.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051461 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : USING SILICA-ZIRCONIA CATALYSTS IN PROCESSES TO REDUCE GLYCIDOL, GLYCIDYL ESTERS, OR BOTH GLYCIDOL AND GLYCIDYL ESTERS

(51) International classification	:C11B0003100000, C11B0003000000, C07D0303160000, C11B0003080000, B01J0021060000
(31) Priority Document No	:62/844033
(32) Priority Date	:06/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/029470 :23/04/2020
(87) International Publication No	:WO/2020/226905
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)GRIMES, Chelsea, L.
3)LIBANATI, Gristian
4)CATUCCI, Ignazio

(57) Abstract :
Methods of using silica-zirconia catalysts in processes to reduce an amount of glycidol, glycidyl ester(s), or both glycidol and glycidyl ester(s) from a triglyceride-containing composition, such as edible oils, are disclosed. Silica-zirconia catalysts and methods of making silica-zirconia catalysts are also disclosed.

No. of Pages : 23 No. of Claims : 74

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051462 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEMS AND METHOD FOR CALCULATING LIABILITY OF A DRIVER OF A VEHICLE

(51) International classification	:G07C0005080000, G06N0020000000, B60W0050140000, G16H0050300000, B60R0001000000
(31) Priority Document No	:62/849763
(32) Priority Date	:17/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/033324 :17/05/2020
(87) International Publication No	:WO/2020/236674
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)FISCHER, Michael
3)LOZOFSKY, Craig
4)SHIMAMURA, Toshiyuki
5)BROOKS, Daniel

(57) Abstract :
Aspects of the present disclosure are related to systems, apparatus, and methods of generating or calculating liability and operational costs of a vehicle based on a driver's handling of the vehicle are described herein. Using a combination of vehicle sensors, video input, and on-board artificial intelligence and/or machine learning algorithms, the systems and methods of the present disclosure can identify risky events performed by the driver of a vehicle and generate, calculate, and evaluate driving scores for the driver of the vehicle and send the calculations to one or more entities.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051464 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS AND SYSTEMS FOR PROVIDING PERSONALISED MEDICINE TO A PATIENT

(51) International classification	:G16H0050200000, A61K0045060000, A61M0015000000, G16H0010600000, G16H0080000000
(31) Priority Document No	:62/841967
(32) Priority Date	:02/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/GB2020/051027 :27/04/2020
(87) International Publication No	:WO/2020/221993
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)YADI, Hakim Adam
3)RICHARDS, Andrew John McGlashan
4)SARTAIN, Felicity Kate
5)COX, David
6)O'REGAN, David

(57) Abstract :
We provide a system for generating a co-therapy regimen for a patient suffering from a disease or condition, the system comprising at least one data processing device having at least one processor, wherein the system is configured to: receive an identification of a co-therapy suitable to treat the disease or condition; receive a desired patient endpoint and a patient position, wherein the patient position is defined relative to the desired patient endpoint; store a dataset relating to the patient, the dataset comprising one or more patient data based on patient-related measurements; process the dataset, the patient position and the desired patient endpoint to generate a regimen for the co-therapy; and, store the regimen in a database. In preferred embodiments, the co-therapy comprises: two or more pharmacological therapies; one or more pharmacological therapy and one or more non-pharmacological therapy, preferably wherein the one or more non- pharmacological therapy is cognitive behavioural therapy; or, two non- pharmacological therapies, preferably wherein at least one non-pharmacological therapy is cognitive behavioural therapy.

No. of Pages : 42 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051465 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PROCESS FOR THE PRODUCTION OF SUBSTITUTED 2-[2-(PHENYL) ETHYLAMINO]ALKANEAMIDE DERIVATIVES

(51) International classification	:C07D0471100000, A61K0031519000, C07D0413120000, C07D0213820000, C07D0239470000
(31) Priority Document No	:19169715.0
(32) Priority Date	:17/04/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/060470 :14/04/2020
(87) International Publication No	:WO/2020/212352
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)LEONG, William
2)LAN, Dongxiao
3)ZHANG, Weifang
4)FANG, Xiang
5)WU, Sizhong

(57) Abstract :
The present invention refers to a process for preparing a compound of formula (I) or a pharmaceutically acceptable salt thereof: wherein R is (C3-C10)alkyl, or -trifluoro(C3-C10)alkyl; R1 and R2 are, independently, hydrogen, hydroxy, (C1-C8) alkoxy, (C1-C8) alkylthio, halo, trifluoromethyl or 2,2,2-trifluoroethyl; or one of R1 and R2 is in ortho position to the R-O- group and, taken together with the same R-O-, represents a Formula (A) group where Ro is (C2-C9)alkyl; R3 and R4 are, independently, hydrogen, (C1-C4)alkyl; or R4 is hydrogen and R5 is a group selected from -CH2-OH, -CH2-O-(C1-C6)alkyl, -CH(CH3)-OH, -(CH2)2-S-CH3, benzyl and 4-hydroxybenzyl; or R4 and R5, taken together with the adjacent carbon atom, form a (C3-C6)cycloalkyl residue; R5 and R6 are independently hydrogen or (C1-C6)alkyl; or taken together with the adjacent nitrogen atom form a 5-6 membered monocyclic saturated heterocycle, optionally containing one additional heteroatom chosen among -O-, -S- and -NR7- where R7 is hydrogen or (C1-C6) alkyl; and wherein optionally one or more hydrogen atom in the groups R, R1, R2, R3, R4, R5 and R6, preferably in the R group, can be substituted by a deuterium atom.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051466 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DENTAL MOUTHPIECE

(51) International classification	:A61C0017060000, A61C0017000000, A61C0017080000, A61C0017020000, A61C0005620000
(31) Priority Document No	:62/846353
(32) Priority Date	:10/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/032228 :08/05/2020
(87) International Publication No	:WO/2020/231864
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)PHAM, Tam, Thanh
3)NGUYEN, Ethan
4)NGUYEN, Lauren

(57) Abstract :
A dental mouthpiece is provided that may be attached to a high-suction dental adapter for the purpose of assisting the dental staff during dental procedures through chair-side, hands-free suction, and isolation. Such a mouthpiece may comprise a main body portion, a cheek retractor portion, and a suction connector portion. In an embodiment, the main body portion, cheek retractor portion, and suction connector portion may be molded in one piece, preferably by injection molding. The main body portion has an anterior wall inside the curve and a posterior wall outside the curve, and an at least one connector connecting the anterior wall and the posterior wall. The main body portion has an anterior intervening wall and the posterior intervening wall in between the anterior and posterior walls. The anterior intervening wall and the posterior intervening walls have alternating crests and troughs.

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021
(21) Application No.202117051474 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : LOW DIELECTRIC CONSTANT FILM AND PREPARATION METHOD THEREOF

(51) International classification	:H01L0021020000, H01L0021312000, H01L0021316000, H01L0021768000, C23C0016400000
(31) Priority Document No	:201910413247.9
(32) Priority Date	:17/05/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/090119 :14/05/2020
(87) International Publication No	:WO/2020/233480
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)ZONG, Jian

(57) Abstract :
Provided is a low dielectric constant film and a preparation method thereof, where epoxy alkanes, organosilicon compounds and fluorine-containing siloxane compounds are used as raw materials of the low dielectric constant film, and the low dielectric constant film is formed on a substrate surface by a plasma-enhanced chemical deposition method. Accordingly, a nanofilm with a low dielectric constant and excellent hydrophobicity is formed on the substrate surface.

No. of Pages : 38 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021
(21) Application No.202117051477 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TRANSFORM IN INTRA PREDICTION-BASED IMAGE CODING

(51) International classification	:H04N0019176000, H04N0019610000, H04N0019180000, H04N0019700000, H04N0019122000
(31) Priority Document No	:62/834951
(32) Priority Date	:16/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/KR2020/005077 :16/04/2020
(87) International Publication No	:WO/2020/213945
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LIM, Jaehyun
3)KOO, Moonmo
4)KIM, Seunghwan

(57) Abstract :
An image decoding method according to the present document comprises the steps of: acquiring prediction-related information and residual-related information for a current block; deriving transform coefficients for the current block on the basis of the residual-related information; and generating residual samples of the current block on the basis of the transform coefficients, wherein the residual-related information includes low-frequency non-separable transform (LFNST) index information indicating information relating to non-separable transform for a low-frequency transform coefficient of the current block on the basis of a matrix-based intra prediction (MIP) flag.

No. of Pages : 73 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051478 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CHIMERIC ZIKA-JAPANESE ENCEPHALITIS VIRUS

(51) International classification	:A61K0039120000, A61K0039000000, A61K0031708800, A61P0031140000, C12N0007000000
(31) Priority Document No	:19168482.8
(32) Priority Date	:10/04/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/060315 :10/04/2020
(87) International Publication No	:WO/2020/208225
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KUM, Dieudonné, Buh
3)MISHRA, Niraj
4)NEYTS, Johan

(57) Abstract :
A polynucleotide comprising the sequence of a live, infectious, attenuated Zika - Japanese encephalitis (JEV) chimeric virus wherein the nucleotide sequence encoding the prME protein of said Zika virus is replaced by a nucleotide sequence encoding the prME protein of a Japanese encephalitis virus, so that said prME protein of said Japanese encephalitis virus is expressed.

No. of Pages : 18 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051479 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : COMPOSITIONS AND METHODS FOR PROMOTING HEMATOPOIETIC CELL CYTOTOXICITY

(51) International classification	:A61K0039395000, A61K0039000000, A61K0049000000, C07K0016280000, C12N0015113000
(31) Priority Document No	:62/833011
(32) Priority Date	:12/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/027865 :12/04/2020
(87) International Publication No	:WO/2020/210774
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Provided herein are compositions and methods for promoting hematopoietic cell cytotoxicity.

No. of Pages : 99 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051480 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TETRAHYDRO-1H-CYCLOPENTA[CD]INDENE DERIVATIVES AS HYPOXIA INDUCIBLE FACTOR-2(ALPHA) INHIBITORS

(51) International classification	:C07D0471040000, A61K0045060000, A61P0037000000, C07D0333200000, C07D0295150000
(31) Priority Document No	:62/836019
(32) Priority Date	:18/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/028579 :16/04/2020
(87) International Publication No	:WO/2020/214853
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LOU, Yan
3)HE, Yigang

(57) Abstract :
The present disclosure provides certain tetrahydro-lH-cyclopenta[cd]indene compounds that are Hypoxia Inducible Factor 2a (HIF-2a) inhibitors and are therefore useful for the treatment of diseases treatable by inhibition of HIF-2a. Also provided are pharmaceutical compositions containing such compounds and processes for preparing such compounds.

No. of Pages : 116 No. of Claims : 51

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051481 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HYBRID-ENERGY APPARATUS, SYSTEM, AND METHOD THEREFOR

(51) International classification	:H02J0007350000, H02S0040380000, H01L0051000000, H01L0031050000, H01M0002200000
(31) Priority Document No	:62/831828
(32) Priority Date	:10/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2020/050482 :09/04/2020
(87) International Publication No	:WO/2020/206554
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)PAHLEVANINEZHAD, Majid

(57) Abstract :
A multi-layer apparatus has a transparent or semi-transparent substrate, a solar-cell layer coupled to the substrate, an energy-storage layer coupled to the solar-cell layer, and a converter layer coupled to the energy-storage layer. The solar-cell layer has a plurality of solar cells for receiving light through the substrate and converting energy of the received light to a first electrical energy, the energy-storage layer has one or more energy-storage units for storing a second electrical energy, and the converter layer has one or more power converters electrically connected to the solar-cell layer and the energy-storage layer for receiving the first electrical energy and the second electrical energy therefrom and outputting a third electrical energy via an output thereof.

No. of Pages : 24 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051482 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVICE FOR PRE-POSITIONING A PROFILE CLAMP, AND CONNECTION SYSTEM

(51) International classification	:F16L0023080000, F16D0003380000, F16L0023040000, F16L0021080000, E01D0019100000
(31) Priority Document No	:10 2019 112 884.6
(32) Priority Date	:16/05/2019
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2020/062922 :08/05/2020
(87) International Publication No	:WO/2020/229360
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)CARTER, Mark
3)WILLIAMS, Gary

(57) Abstract :
The invention relates to a device (10) for pre-positioning a profile clamp (12) for connecting line end pieces (14, 16). The device (10) comprises a bridge element (18) of a profile clamp (12) and a flange element (20) on one of the line end pieces (14, 16). The bridge element (18) is designed to connect two clamp portions (22, 24) of the profile clamp (12) in a bridge direction (26). The bridge element (18) has a finger (28). The finger (28) extends away from the bridge element (18) at least partially transversely to the bridge direction (26) and has a free end portion (30). The invention is characterized in that the flange element (20) comprises a recess (32) for receiving the free end portion (30), the recess (32) blocking movement of the free end portion (30) in a peripheral direction of the flange element (20). By means of the invention, an improved device (10) for pre-positioning a profile clamp (12) is provided, which device can be produced more economically and more easily than in the prior art.

No. of Pages : 12 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051500 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WOUND STATOR FOR A ROTATING ELECTRIC MACHINE

(51) International classification	:H02K0003280000, H02K0003120000, H02K0003500000, H02K0005220000, H01B0012160000
(31) Priority Document No	:FR1908217
(32) Priority Date	:19/07/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2020/070340 :17/07/2020
(87) International Publication No	:WO/2021/013743
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)LECLERCQ, Sebastien
4)LEMORT, Pascal

(57) Abstract :
The present invention proposes a wound component for a rotating electric machine, having: a body (27) having slots (37), an electrical winding (28) comprising three electrical phases (43), each electrical phase comprises two phase terminals (42) and a plurality of turns. Each terminal (42) of one phase is electrically connected to another terminal of another phase so as to form a connection point (47), the connection points being spaced from one another by a mechanical angle of 40°. Each electrical phase (43) has an electrical resistance, said electrical resistances being equal to one another.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051501 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PRODUCING CHROMIUM-CONTAINING MOLTEN IRON

(51) International classification	:C21D0009460000, C21C0007000000, C22C0038000000, C21C0005520000, C22C0001020000
(31) Priority Document No	:2019-080179
(32) Priority Date	:19/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/014961 :31/03/2020
(87) International Publication No	:WO/2020/213393
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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6)NAKAGAWA, Junichi

(57) Abstract :
According to the present invention, a charge containing: ferrochromium and/or ferrosilicon alloy iron containing metallic Si; and unreduced slag containing Cr oxide generated during oxidative refining is charged into an electric furnace, as a formulation in which a mass ratio defined as the amount of metallic Si/the amount of Cr oxide is 0.30-0.40, and a C concentration is from 2.0 mass% to a saturation concentration. The charge is heated and melted in the electric furnace to produce molten iron which contains Cr reduced from Cr oxide, wherein, during the heating and melting of the charge, the ultimate temperature is 1400-1700°C, the maximum average heating rate in an arbitrary 80°C-span zone from 1300°C to the ultimate temperature is 15°C/min or less, and the minimum average heating rate in an arbitrary 80°C-span zone from 1300°C to the ultimate temperature is 3.0°C/min or greater.

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051502 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TOP COVER ASSEMBLY, SECONDARY BATTERY, BATTERY PACK, AND ELECTRICAL DEVICE

(51) International classification	:H01M0002340000, H01M0002100000, H01M0002060000, H01M0002300000, H01M0002080000
(31) Priority Document No	:201920678452.3
(32) Priority Date	:14/05/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/085442 :17/04/2020
(87) International Publication No	:WO/2020/228486
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)SU, Huasheng
4)WANG, Peng

(57) Abstract :
The present application relates to the technical field of secondary batteries, and in particular, to a top cover assembly, a secondary battery, a battery pack, and an electrical device. The top cover assembly provided in the present application comprises a top cover plate, a sealing member, and a lower insulating member. The sealing member comprises a first sealing part located on the upper surface of the top cover plate. The lower insulating member has a first insulating part and a second insulating part connected to each other. The first insulating part is located below the top cover plate. The second insulating part extends upward from the first insulating part and is at least partially located in the electrode lead-out hole of the top cover plate. One of the second insulating part and the sealing member is provided with a recess and the other comprises a first matching part. The first matching part is embedded in the recess and sealedly fits the bottom wall of the recess. On this basis, the present application can effectively extend the creepage distance, thus facilitating reduction of the risk of fire or explosion when a secondary battery is subjected to high voltage.

No. of Pages : 20 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021
(21) Application No.202117051503 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PURIFICATION OF HEXANE AS BY-PRODUCT OF AN ISOMERIZATION UNIT USING A DIVIDING WALL COLUMN

(51) International classification	:B01D0003140000, C07C0005270000, B01J0019240000, C07C0007000000, B01D0003400000
(31) Priority Document No	:62/848217
(32) Priority Date	:15/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/000379 :14/05/2020
(87) International Publication No	:WO/2020/229892
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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5)CHAUDHARY, Kondapalli, Shreya

(57) Abstract :
A system and method for producing high-purity hexane that uses a deisohexanizer with a dividing wall within the separation section following the isomerization reactor section of an isomerization unit deisohexanizer column with a dividing wall. Light isomerate (mainly i-C5) and heavy isomerate (mainly i-C6) are also products of the isomerization unit. The dividing wall column merges operation of two conventional distillation columns into a single column leading to substantial cost savings. The dividing wall for this particular application can be located either in the top, bottom, or middle section of the column. Using a top, bottom, or middle dividing wall column for this application has significant advantages over conventional distillation columns. The hexane, produced as a byproduct from the isomerization unit is of a much superior quality to that produced by a solvent extraction process, which is the conventional process for producing hexane. The operating cost for the production of hexane from an isomerization unit is significantly reduced compared to the cost of hexane produced by solvent extraction processes.

No. of Pages : 20 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051504 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IMMUNE CHECKPOINT INHIBITOR COMBINATION THERAPY USING QUINOLINE CARBOXAMIDE DERIVATIVE

(51) International classification	:A61P0035000000, A61K0039395000, C07K0016280000, A61K0045060000, A61K0031470900
(31) Priority Document No	:2019-085041
(32) Priority Date	:26/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/017522 :23/04/2020
(87) International Publication No	:WO/2020/218432
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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4)OGO, Naohisa
5)TAKAHASHI, Hiroyuki

(57) Abstract :
Provided is a method for using a STAT3 inhibitor that exerts an excellent antitumor effect. An antitumor agent that comprises a quinoline carboxamide derivative represented by formula (1) or a salt thereof as an active ingredient and is to be administered in combination with an immune checkpoint inhibitor. This antitumor agent is to be administered prior to the administration of the immune checkpoint inhibitor.

No. of Pages : 42 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051505 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM FOR ATTACHING AN OBJECT TO A SUPPORT SUCH AS, IN PARTICULAR, A WEAPON TO A CRADLE FOR RECEIVING SAME

(51) International classification	:B60C0023040000, A47J0027212000, H01M0008247000, F16M0013020000, B60R0009100000
(31) Priority Document No	:FR1904915
(32) Priority Date	:13/05/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2020/063020 :11/05/2020
(87) International Publication No	:WO/2020/229396
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)FAZILLAULT, Vincent
3)ARRIGNON, Geoffrey

(57) Abstract :
This system for attaching an object to a support such as, in particular, a weapon (1) to a cradle (3) for receiving same, using tightening strap means (3), is characterised in that the strap means (3) comprise visual indication means (4) indicating the tightening pressure.

No. of Pages : 4 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021
(21) Application No.202117051506 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS AND APPARATUS FOR WAVEFORM DESIGN AND SIGNALING FOR ENERGY HARVESTING

(51) International classification	:H04W0074080000, H04L0005000000, H04L0027260000, H04L0001000000, H04W0048140000
(31) Priority Document No	:62/849640
(32) Priority Date	:17/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/033306 :16/05/2020
(87) International Publication No	:WO/2020/236665
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)RUDOLF, Marian
4)HAQUE, Tanbir
5)CABROL, Patrick
6)PRAGADA, Ravikumar, V.

(57) Abstract :
Methods and apparatus for waveform design and signaling for energy harvesting (EH) in a wireless network are disclosed. In an example, a method includes receiving a control message including a contention-based backscattering configuration, determining parameters for transmitting a feedback within a contention-based transmission window based on the contention-based backscattering configuration, detecting feedback transmissions sent by other WTRUs within the contention-based transmission window, wherein each feedback transmission includes an EH capability indication, determining whether an EH capability detected from the feedback transmissions matches the EH capability of the WTRU, if a matched EH capability is detected from the feedback transmissions within the contention-based transmission window, delaying a transmission of the feedback, and if no matched EH capability is detected from the feedback transmissions within the contention-based transmission window, transmitting the feedback using the determined parameters.

No. of Pages : 48 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021
(21) Application No.202117051507 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SPOT WELDED JOINT, AND METHOD FOR MANUFACTURING SPOT WELDED JOINT

(51) International classification	:B32B0015010000, B23K0101180000, C22C0038020000, F16C0033540000, C21D0009500000
(31) Priority Document No	:2019-097703
(32) Priority Date	:24/05/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/020309 :22/05/2020
(87) International Publication No	:WO/2020/241500
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)KOGA Atsuo
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5)YASUYAMA Masanori

(57) Abstract :
This spot welded joint includes a first steel plate, a second steel plate overlapping the first steel plate, and two spot welded metals joining the first steel plate and the second steel plate, wherein: in a cross section including the two spot welded metals, the first steel plate includes a first region formed between two spot welded metals in a zone of 0.1 mm in the thickness direction of the first steel plate from the surface on the second steel plate side, and a second region formed between the two spot welded metals in a zone of 0.1 mm in the thickness direction from the opposite surface to the surface on the second steel plate side; an average Vickers hardness HV1 in the first region and an average Vickers hardness HVbase of the first steel plate satisfy HVbase×0.33+150=HV1=HVbase×0.33+230; and an average Vickers hardness HV2 in the second region and the average Vickers hardness HVbase of the first steel plate satisfy HVbase-30=HV2=HVbase+30.

No. of Pages : 30 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051508 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : LIGHT SHIELDING COMPONENT, AND CORRESPONDING OPTICAL ASSEMBLY, VEHICLE LAMP AND VEHICLE

(51) International classification	:C08K0003340000, G02B0006240000, F21V0014080000, H01H0013830000, C08L0033000000
(31) Priority Document No	:201920809004.2
(32) Priority Date	:30/05/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/EP2020/064908 :28/05/2020
(87) International Publication No	:WO/2020/239946
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)XIONG, Fei
4)SUN, Mingrui

(57) Abstract :
One of the problems solved by an embodiment of the present invention is to solve the problem of light leakage. A light shielding component (100) according to the present invention comprises: a covering portion (110), and a snap-fit portion (120), wherein the covering portion (110) is used to cover a light guide (200) to block the transmission of light rays; and the snap-fit portion (120) comprises at least one slot (121), which is used to fix the light shielding component (100). Compared with the prior art, the advantage of the solution of the present invention is that by using a light shielding component (100), the light beam leakage is better blocked, and a better visual effect is achieved.

No. of Pages : 9 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051510 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BICYCLIC COMPOUNDS

(51) International classification	:C07D0249060000, A61K0045060000, C07D0231120000, C07K0014470000, C07D0249080000
(31) Priority Document No	:62/834671
(32) Priority Date	:16/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/028363 :15/04/2020
(87) International Publication No	:WO/2020/214734
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)KONRADI, Andrei W.
2)LIN, Tracy Tzu-Ling Tang

(57) Abstract :
Provided herein are compounds and pharmaceutical compositions comprising said compounds that are useful for treating cancers. Specific cancers include those that are mediated by YAP/TAZ or those that are modulated by the interaction between YAP/TAZ and TEAD.

No. of Pages : 280 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051517 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CLOTTING FACTOR PREPARATIONS FOR DELIVERY INTO TISSUE OF THE INTESTINAL TRACT USING A SWALLOWABLE DRUG DELIVERY DEVICE

(51) International classification	:A61K0009000000, A61K0009480000, A61M0031000000, C07K0014755000, A61K0038370000
(31) Priority Document No	:62/843221
(32) Priority Date	:03/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/031197 :01/05/2020
(87) International Publication No	:WO/2020/227162
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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7)DASARI, Anvesh

(57) Abstract :
Embodiments provide devices, preparations and methods for delivering therapeutic agents (TAs) such as clotting factors (CFs), e.g., Factor VIII (FVIII) including PEGylated and other forms of stabilized FVIII, within the GI tract. Many embodiments provide a swallowable device e.g., a capsule for delivering TAs into the intestinal wall (IW). Embodiments also provide TA preparations configured to be contained within the capsule, advanced from the capsule into the IW and/or surrounding tissue (ST) and degrade to release the TA into the bloodstream to produce a therapeutic effect (e.g., improved clotting). The preparation can be operably coupled to delivery means having a first configuration where the preparation is contained in the capsule and a second configuration where the preparation is advanced out of the capsule into the IW or ST (e.g., the peritoneal cavity). Embodiments are particularly useful for delivery of CFs for treatment of clotting disorders (e.g., hemophilia) where such CFs are poorly absorbed and/or degraded within the GI tract.

No. of Pages : 93 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051518 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TRICYCLIC DEGRADERS OF IKAROS AND AIOLOS

(51) International classification	:C07D0401140000, C07K0014470000, G01N0033580000, A61K0031550000, A61P0029000000
(31) Priority Document No	:62/833107
(32) Priority Date	:12/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/027678 :10/04/2020
(87) International Publication No	:WO/2020/210630
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Tricyclic cereblon binders for the degradation of Ikaros or Aiolos by the ubiquitin proteasome pathway for therapeutic applications are described.

No. of Pages : 740 No. of Claims : 182

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051524 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : INTRODUCER NEEDLE AND RELATED CATHETER INSERTION DEVICE

(51) International classification	:H04N0019117000, B24B0013000000, H04N0019176000, H04N0019140000, H01R0013520000
(31) Priority Document No	:62/834233
(32) Priority Date	:15/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/028101 :14/04/2020
(87) International Publication No	:WO/2020/214581
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)ISAACSON, S. Ray

(57) Abstract :
A needle (10) for catheter introduction includes a distal end (12) comprising a tip (16) and a first beveled surface (18), a second beveled surface (20), and a third beveled surface, which each extend proximally from the distal tip (16). The first beveled surface (18) converges with the second beveled surface (20) to form a first cutting edge (24), the second beveled surface (20) converges with the third beveled surface to form a second cutting edge, and the third beveled surface converges with the first beveled surface (18) to form a third cutting edge (28). The first cutting edge is offset from the second cutting edge by about 120 degrees, the second cutting edge is offset from the third cutting edge by about 120 degrees, and the third cutting edge is offset from the first cutting edge by about 120 degrees.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051544 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF TREATING LOWER URINARY TRACT SYMPTOMS WITH FEXAPOTIDE TRIFLUTATE

(51) International classification	:A61K0031405000, A61K0031000000, A61B0005087000, A61K0031400000, A61M0025000000
(31) Priority Document No	:16/410658
(32) Priority Date	:13/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/032017 :08/05/2020
(87) International Publication No	:WO/2020/231777
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)AVERBACK, Paul

(57) Abstract :
Disclosed are methods of treating symptoms of Lower Urinary Tract Symptoms (LUTS), both obstructive and irritative, that include identifying patients having benign prostatic hyperplasia (BPH), and who also have LUTS, and administering a composition comprising FT to the so-identified patient. The methods are particularly effective in improving urinary peak flow (Qmax), and in improving nocturia.

No. of Pages : 32 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051545 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IMPROVEMENTS IN AND RELATING TO STERILISATION OF FLUID-GUIDING ELEMENTS FOR BIOPROCESSING APPLICATIONS

(51) International classification	:C02F0001320000, C12M0001000000, A61L0002100000, G02B0005200000, C12M0001340000
(31) Priority Document No	:1909315.2
(32) Priority Date	:28/06/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2020/066747 :17/06/2020
(87) International Publication No	:WO/2020/260089
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Disclosed is an ultra-violet (UV) light sterilisable fluid-guiding element (100, 200, 300, 400, 500) configurable to form a part of a normally closed bioprocessing fluid system, at least a portion of the element being formed from a material which is transmissive to UV light, said at least one portion of the element including one or more surfaces (134) configured to contact and guide fluids within the closed system. The element further includes at least one UV light emitting diode (LED) (154) mounted in, on, or adjacent the at least one portion and has sufficient light output to sterilise at least the one or more surfaces (134).

No. of Pages : 10 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051550 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ANTI-PROLIFERATIVE AGENTS FOR TREATING PAH

(51) International classification	:C07D0401140000, A61P0003000000, A61K0031497000, C07B0059000000, A61P0025000000
(31) Priority Document No	:62/836340
(32) Priority Date	:19/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/053550 :15/04/2020
(87) International Publication No	:WO/2020/212865
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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10)NAIR, Sajiv Krishnan
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15)YANG, Qingyi
16)ZHANG, Liying

(57) Abstract :
This invention relates to compounds of general Formula I in which A, R1, R2, R3 and R4 are as defined herein, and the pharmaceutically acceptable salts thereof; to pharmaceutical compositions comprising such compounds and salts; to methods of using such compounds, salts and compositions for treating pulmonary hypertension and related diseases, like pulmonary arterial hypertension; to methods of using such compounds, salts and compositions for treating abnormal cell growth, such as cancer; and to processes to make such compounds, salts and compositions.

No. of Pages : 171 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021
(21) Application No.202117051551 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : C2C3 RANDOM COPOLYMER COMPOSITION

(51) International classification	:C08L0023140000, C08F0004659000, B29K0105000000, C08F0004160000, C08L0023160000
(31) Priority Document No	:19177301.9
(32) Priority Date	:29/05/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/064028 :20/05/2020
(87) International Publication No	:WO/2020/239561
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)BERNREITNER, Klaus
4)LESKINEN, Pauli
5)NIEDERSUESS, Peter
6)ORTNER, Stefan

(57) Abstract :
New C2C3 random copolymer composition, which shows improved sealing behaviour due to low sealing initiation temperature (SIT) and high hot tack force. In addition, the inventive composition shows an excellent sterilization behaviour, i.e. retention of low haze level after sterilization. The present invention is furthermore related to the manufacture of said copolymer composition and to its use.

No. of Pages : 33 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051562 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVICES, SYSTEMS AND METHODS FOR COLLAPSIBLE AND EXPANDABLE IMPLANT LOADING, TRANSSEPTAL DELIVERY, POSITIONING DEPLOYMENT AND REPOSITIONING DEPLOYMENT

(51) International classification	:A61F0002240000, A61B0017860000, A61B0090000000, A61F0002950000, A61B0017064000
(31) Priority Document No	:62/854584
(32) Priority Date	:30/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/033902 :21/05/2020
(87) International Publication No	:WO/2020/242866
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)DIEDERING, Jason, S.
2)KHOUENGBOUA, Sounthara
3)KUMAR, Saravana, B.

(57) Abstract :
A loading, delivery, deployment and positioning system for a prosthetic heart valve device includes a stent that is biased to expand and adapted to collapse into the lumen of a delivery catheter. A torque wire of the system includes a distal threaded region, has length that is longer than a length of the delivery catheter, and is adapted for movement within the delivery catheter lumen. A stent cap is non-rotationally attached at or near the top of the stent and defines a channel and a pair of lateral locking grooves therethrough. A male engagement member of the system includes a threaded region adapted to threadingly engage the threaded region of the torque wire, a stem region extending distally from the threaded region; and engagement handles extending laterally from a distal end of the stem region, the engagement handles being adapted to detachably engage the stent cap.

No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051563 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PRODUCING PHARMACEUTICAL FORMULATION

(51) International classification	:A61K0009000000, A61K0009200000, A61K0045060000, A61M0035000000, A61K0009700000
(31) Priority Document No	:2019-081372
(32) Priority Date	:22/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/017254 :21/04/2020
(87) International Publication No	:WO/2020/218310
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)HOASHI Yohei
4)EDAMURA Keisuke
5)ICHIKAWA Yuki

(57) Abstract :
[Problem] Provided is a method for producing a pharmaceutical formulation that makes it possible for said formulation to contain a small quantity of a drug in a safe and simple manner. [Solution] The method for producing a pharmaceutical formulation comprises a first application step for applying a drug to the surface of a tablet or capsule by a dispensing method using a dispensing solution containing the drug. In addition, a pharmaceutical formulation according to the present invention contains a base agent and a drug applied to the surface of the base agent by a dispensing method. The base agent is a tablet or a capsule.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051564 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : NEEDLE INSERTION DEVICE FOR THE ELECTROPORATION OF A PRODUCT INTO AN EYE

(51) International classification	:A61B0017000000, A61N0001320000, A61F0009000000, A61M0005320000, A61B0017340000
(31) Priority Document No	:19171399.9
(32) Priority Date	:26/04/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/061481 :24/04/2020
(87) International Publication No	:WO/2020/216915
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)MOUREAUX, Christophe
4)CABAUD, François
5)SCHAFER, Jerome Joseph
6)CRAFT, Travis Michael
7)KO, Benjamin Lee
8)SCHUBERT, Jacob William
9)AULD, Michael D

(57) Abstract :
The present invention relates to a device comprising: - a support (4) comprising a support base (10) defining - a spherical base contact surface (18), extending along a virtual sphere (S) and - a circular rim (20) extending in a rim plane (P20); - a first and a second needle (8a;8b) mobile on the support between extracted and inserted positions in which the first and second needles are outside and maximally inserted in said virtual sphere, respectively, via first and second intermediate piercing positions in which, respectively, the first and second needles extend along first and second insertion axis (8a;8b) and their tips are located on first and second insertion points (M8a;M8b) belonging respectively to first and second hemispheres of the virtual sphere separated by a median radial plane of the rim, an angle () between the median radial plane and any insertion axis being between 70° and 110°.

No. of Pages : 24 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051565 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MULTI-CHAMBER SYRINGE

(51) International classification	:A61M0005315000, A61M0005310000, A61M0005190000, A61M0005200000, A61M0005178000
(31) Priority Document No	:16/403399
(32) Priority Date	:03/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/031035 :01/05/2020
(87) International Publication No	:WO/2020/227096
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)MANSOUR, George
3)MASON, Eugene

(57) Abstract :
Syringes are described herein. A syringe includes a syringe body, a first plunger, a second plunger, and an inner tube. The syringe body defines a syringe cavity and a syringe port, wherein the syringe port is in fluid communication with the syringe cavity. The first plunger is disposed within the syringe cavity and defining a first chamber in the syringe cavity, wherein the first chamber is in fluid communication with the syringe port. The second plunger is disposed within the syringe cavity, the first plunger and the second plunger cooperatively defining a second chamber in the syringe cavity. The inner tube comprises an inner tube lumen, wherein the inner tube and the first plunger shaft lumen define an annulus therebetween, the annulus in fluid communication with the first plunger channel and the annulus permits fluid communication between the syringe port and the first plunger channel.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021
(21) Application No.202117051566 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VIRTUAL, AUGMENTED AND EXTENDED REALITY SYSTEM

(51) International classification	:H04L0029060000, H04L0012260000, G06Q0010060000, A63F0013300000, A61B0005160000
(31) Priority Document No	:62/837141
(32) Priority Date	:22/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/029367 :22/04/2020
(87) International Publication No	:WO/2020/219581
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)FREIWIRTH, Raphael
3)LEWISON, Mark, Claude
4)CHIANG, Michelle

(57) Abstract :
Systems, methods and apparatus for multi-realm, computer-generated reality systems are disclosed. A method for managing a multi-realm, computer-generated reality includes determining one or more variances between each activity of a first participant and a corresponding baseline activity for each of a plurality of activities associated with traversal of a managed reality system during a session, and quantifying the one or more variances to obtain a performance metric. The method includes combining at least one performance metric for each activity of the first participant to obtain a session performance measurement for the first participant.

No. of Pages : 69 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051599 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : QUICK AND SIMPLE LED DISPLAY LIGHT BOX

(51) International classification	:G09F0013040000, G09F0009330000, G02B0005020000, F21V0021088000, F21S0002000000
(31) Priority Document No	:201910289240.0
(32) Priority Date	:11/04/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/086216 :09/05/2019
(87) International Publication No	:WO/2020/206791
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)YOU, Lei

(57) Abstract :
Disclosed is a quick and simple LED display light box. The quick and simple LED display light box comprises a base (10), a support rod (20), and a top support piece (30), wherein one end of the support rod (20) is fixed on the base (10), and the other end thereof is connected to the top support piece (30); and LED light bars (40) are arranged on the base (10) and/or the top support piece (30). Compared with the prior art, the light box is constructed as easily as a traditional roll-up banner structure, is provided with a light source with the LED light bars, improves the display effect, and is capable of being used in dark environments; the light source with the LED light bars may be mounted in various modes, thereby meeting various requirements for luminance; and the light box is firm in terms of structure, is quick to assembly, and is simple to store.

No. of Pages : 6 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051602 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS AND SYSTEMS FOR MICROSATELLITE ANALYSIS

(51) International classification	:C12Q0001686900, G06N0005000000, G16B0040200000, G16B0020200000, C12Q0001680000
(31) Priority Document No	:62/837109
(32) Priority Date	:22/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/029145 :21/04/2020
(87) International Publication No	:WO/2020/219463
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)GARNER, Harold

(57) Abstract :
The present disclosure provides methods and systems for classifying microsatellite and minor alleles in a sample. Also, the present disclosure provides methods and systems for generating classifiers for conditions based on microsatellite loci and for performing pan-cancer assays. The methods and systems can involve next-generation sequencing of nucleic acid samples from subjects and genotyping microsatellite loci in the samples.

No. of Pages : 72 No. of Claims : 61

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051603 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MODULATING ANTIBODY EFFECTOR FUNCTIONS

(51) International classification	:C07K0016280000, C12N0015820000, C12N0009100000, C07K0016000000, C12P0021000000
(31) Priority Document No	:62/843919
(32) Priority Date	:06/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/035016 :28/05/2020
(87) International Publication No	:WO/2020/227726
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)PADAKI, Rupa
3)ZHANG, Qingchun
4)BRETZLAFF, William S.

(57) Abstract :
Provided herein are methods of modulating Fc gamma Receptor (FcR)-mediated cytotoxicity of an antibody composition. In exemplary embodiments, the method comprises (1) increasing or decreasing the amount of terminal ß-galactose at the N-297 glycosylation site of panitumumab, or increasing or decreasing the amount of panitumumab molecules that comprise G1, G1a, G1b and/or G2 galactosylated glycan at the N-297 site, (2) increasing or decreasing the amount of panitumumab molecules that comprise fucosylated glycan at the N-297 site, or increasing or decreasing the amount of panitumumab molecules that comprise afucosylated glycan at the N-297 site, and (3) increasing or decreasing the amount of panitumumab molecules that comprise a high-mannose glycan at the N-297 site.

No. of Pages : 51 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202117051617 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CONTAINER FOR FOOD PRODUCTS AND METHOD TO MANUFACTURE IT

(51) International classification	:B65D0001160000, B65D0043020000, E04F0015020000, B65D0081260000, B32B0027080000
(31) Priority Document No	:102019000006142
(32) Priority Date	:19/04/2019
(33) Name of priority country	:Italy
(86) International Application No Filing Date	:PCT/IB2020/053663 :17/04/2020
(87) International Publication No	:WO/2020/212933
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
A container for food products is defined by a tray (2), which is made of a polymer material, has a bottom wall (3), a side wall (4), and an upper peripheral edge (5), and is provided with a glue layer (16) directly applied on the polymer material of the upper peripheral edge (5) to lock a closing lid (6) on the upper peripheral edge (5).

No. of Pages : 6 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051658 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VARIABLE SIZE REPOSITIONING SHEATH

(51) International classification	:A61M0025060000, A61M0025000000, A61M0001100000, A61M0001120000, A61B0017221000
(31) Priority Document No	:62/836960
(32) Priority Date	:22/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/029089 :21/04/2020
(87) International Publication No	:WO/2020/219430
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)HASTIE, Caitlyn
4)FISHMAN, Robert
5)ASHOK, Akshay
6)MODLISH, John

(57) Abstract :
Systems and methods are provided for insertion of a medical device into a blood vessel. The system may include a sheath assembly with an introducer sheath (120, 220) and a variable size repositioning sheath (110). The variable size repositioning sheath (110) may be configured to be adjustable in size in a radial direction and to be inserted into the blood vessel (142) or an expandable introducer sheath (220). In some aspects, the system may include a intracardiac device (130) such as a blood pump (137) with an elongate catheter (132).

No. of Pages : 49 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051659 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VARIABLE-STIFFNESS DISTAL EXTENSION FOR A BLOOD PUMP SYSTEM

(51) International classification	:A61M0001100000, A61M0001120000, A61M0025010000, A61M0025000000, A61M0025090000
(31) Priority Document No	:62/835636
(32) Priority Date	:18/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/028751 :17/04/2020
(87) International Publication No	:WO/2020/214943
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)TAO, Zenghong

(57) Abstract :
Systems and methods for providing a blood pump system having a variable stiffness distal extension are disclosed. A variable stiffness distal extension may have at least one section of continuously varying stiffness, resulting in a stiffness profile that decreases in a distal direction along a length of the distal extension. The varying stiffness may be accomplished by varying one or more radial dimensions of the extension. For example, in some implementations, an outer diameter of a distal extension may decrease along at least a portion of a distal extension. The distal extension may include a lumen configured to receive a longitudinally extending element.

No. of Pages : 16 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051685 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : GLOBAL MOTION CONSTRAINED MOTION VECTOR IN INTER PREDICTION

(51) International classification	:H04N0019527000, H04N0019176000, H04N0019513000, H04N0019537000, H04N0019174000
(31) Priority Document No	:62/838563
(32) Priority Date	:25/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/029926 :24/04/2020
(87) International Publication No	:WO/2020/219956
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)FURHT, Borivoje
3)ADZIC, Velibor

(57) Abstract :
A decoder includes circuitry configured to receive a bitstream, extract a header associated with a current frame and including a signal characterizing that global motion is enabled and further characterizing parameters of a global motion model, and decoding the current frame, the decoding including using a motion model for each current block having a complexity that is less than or equal to a complexity of the global motion model. Related apparatus, systems, techniques and articles are also described.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051695 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS AND APPARATUS FOR UPLINK ENERGY HARVESTING AND SIGNALING

(51) International classification	:H04W0072120000, H04L0005000000, H04W0072040000, H04W0016280000, H04B0007080000
(31) Priority Document No	:62/849400
(32) Priority Date	:17/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/033305 :16/05/2020
(87) International Publication No	:WO/2020/236664
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)RUDOLF, Marian
4)HAQUE, Tanbir
5)CABROL, Patrick
6)PRAGADA, Ravikumar, V.

(57) Abstract :
Method and apparatus for a WTRU to harvest energy from uplink signals of other WTRUs in a wireless network are disclosed. In an example, a method includes sending a message indicating resources and capability of energy harvesting (EH) from sets of resources of the plurality of resources; receiving one or more SRS super-sets, each SRS super-set being associated with a group of other WTRUs and at least one set of resources of the plurality of resources; determining a mapping between a receive beam and an SRS super-set; receiving uplink transmission patterns each being associated with an SRS super-set; selecting a receive beam from a set of receive beams based on the received uplink transmission patterns; and harvesting RF energy from uplink transmissions of one or more groups of other WTRUs using at least the selected receive beam and the received uplink transmission patterns.

No. of Pages : 40 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051696 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CARBONATION CURING METHOD TO PRODUCE WET-CAST SLAG-BASED CONCRETE PRODUCTS

(51) International classification	:C04B0040020000, B28B0017000000, B28B0003220000, B28B0001080000, C04B0028080000
(31) Priority Document No	:62/832966
(32) Priority Date	:12/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2020/050467 :09/04/2020
(87) International Publication No	:WO/2020/206541
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MAHOUTIAN, Mehrdad

(57) Abstract :
The present description relates to methods of producing a wet-cast slag-based concrete product particularly where the wet-cast slag-based concrete product is cast, pre- conditioned and cured with carbon dioxide inside a mould and/or inside a mould placed in a curing chamber. The wet-cast slag-based concrete product is optionally reinforced.

No. of Pages : 29 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051697 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF MANUFACTURING MOLTEN IRON CONTAINING CHROMIUM

(51) International classification	:C21C0005520000, F27B0003080000, C22B0007040000, C21C0005000000, C21C0007000000
(31) Priority Document No	:2019-081179
(32) Priority Date	:22/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/014962 :31/03/2020
(87) International Publication No	:WO/2020/217890
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)FUTAKA, Mikio
4)TANAKA, Yasuhiro
5)KANEKO, Naoki
6)NAKAGAWA, Junichi

(57) Abstract :
In the present invention, an AC electric furnace equipped with three electrodes is charged with charge material containing a metallic raw material and an unreduced slag, the metallic raw material containing at least one of a ferrosilicon and a ferrochrome that contain metallic Si and the unreduced slag containing an oxide of Cr produced by oxidation refining. The charge material is blended such that a mass ratio defined as the metallic Si quantity divided by the Cr oxide quantity is 0.30-0.40 and the concentration of C is equal to or larger than 2.0 mass% and smaller than or equal to a saturation concentration. Molten iron containing Cr is manufactured by running the electric furnace under such conditions that the relationships are satisfied, where PCD (m) is the diameter of a circle passing through the centers of the three electrodes when viewed in a plan view along a center axis direction of the electric furnace, He (m) is the average electrode height defined as the vertical distance from the tips of the electrodes to the molten metal surface, Df (m) is the furnace internal diameter, Hs (m) is the molten slag thickness, Darc (m) is the spread diameter of the arc on the molten material surface, and (deg) is the deflection angle of the arc: Darc = PCD + 2He × tan ; = 52.5 - 75 × (PCD/Df); 0.22 = Darc/Df = 0.30; 0.35 = He/Hs = 1.50.

No. of Pages : 33 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051698 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MIXED POWDER FOR POWDER METALLURGY

(51) International classification	:B22F0001000000, C22C0033020000, A61L0031160000, H01F0001240000, F16C0033660000
(31) Priority Document No	:2019-082258
(32) Priority Date	:23/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/003003 :28/01/2020
(87) International Publication No	:WO/2020/217618
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
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2)MATSUOKA Ryosuke
3)ASHIZUKA Kohsuke
4)UNAMI Shigeru

(57) Abstract :
This mixed powder for powder metallurgy contains (a) an iron-based powder and (b) a lubricant, and combines fluidity of the mixed powder, ejectability during casting, and compressibility of the cast body. The (b) lubricant comprises a low-melting-point lubricant having a melting point of 86°C or lower and a high-melting-point lubricant having a melting point of over 86°C. The low-melting-point lubricant has at least one group selected from the group consisting of an amide group, an ester group, an amino group, and a carboxyl group. The proportion of the low-melting-point lubricant (b) relative to the entirety of the lubricant is 5% by mass or more but less than 90% by mass. When (b1) bound lubricant is defined as the (b) lubricant adhered to the surface of the (a) iron-based powder, and (b2) free lubricant is defined as the (b) lubricant not adhered to the surface of the (a) iron-based powder, the ratio of the mass of the (b2) free lubricant with respect to the mass of the (b1) bound lubricant is between 0 and 15 inclusive, and the amount of the low-melting-point lubricant contained as the (b2) free lubricant is less than 0.10 parts by mass, with respect to 100 parts by mass of the iron-based powder.

No. of Pages : 32 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051699 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR MAKING A CARBON FIBRE FROM A PAPER PRODUCT

(51) International classification	:D01F0002000000, D01F0002020000, D01F0009220000, D01F0009160000, D01D0005180000
(31) Priority Document No	:FR1904850
(32) Priority Date	:10/05/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2020/062658 :07/05/2020
(87) International Publication No	:WO/2020/229282
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)FAURECIA SERVICES GROUPE
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1)PINEAU, Sylvain
2)MERCADER, Célia
3)LARGEAU, Céline

(57) Abstract :
The invention relates to a method for making a carbon fibre from a paper product. Said method comprises preparing a cellulose-based fibre by crushing the paper product, dissolving the crushed material obtained in an aqueous phosphoric acid solution to form a spinning solution, and forming a cellulose-based continuous fibre by means of a solvent spinning process. The cellulose fibre formed in this way is subjected to carbonisation treatment in order to form a carbon fibre.

No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051710 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SURGE PROTECTION DEVICE FOR THE PROTECTION OF MULTIPLE DC OR AC POWER LINES

(51) International classification	:H02H0009040000, H01L0027020000, H01L0027320000, H04M0001740000, G01R0019165000
(31) Priority Document No	:62/847005
(32) Priority Date	:13/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/032453 :12/05/2020
(87) International Publication No	:WO/2020/231981
(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)MERSEN USA EP CORP.
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1)BALL, Roy

(57) Abstract :
A circuit arrangement for a surge protection device for protecting multiple DC or AC power lines. The circuit arrangement includes a plurality of DC or AC power line inputs, a negative potential or neutral input, a ground potential input, a surge protection component having one or more surge elements, a rectification circuit including a plurality of diodes, and an alarm circuit for receiving a status output from the surge protection component.

No. of Pages : 10 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051716 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PHARMACEUTICAL COMPOSITION OF A WEAK ACID DRUG AND METHODS OF ADMINISTRATION

(51) International classification	:A61K0009127000, A61K0047120000, A61K0047540000, A61K0009000000, A61K0031410000
(31) Priority Document No	:62/847337
(32) Priority Date	:14/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/032563 :13/05/2020
(87) International Publication No	:WO/2020/232046
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)KAN, Pei
2)LIN, Yi Fong
3)CHEN, Ko Chieh

(57) Abstract :
The present invention relates to a pharmaceutical composition containing liposomes, said liposome comprise an external lipid bilayer; and an internal aqueous medium including a weak acid drug with a half-life of less than 2 hours. Also provided is the use of the pharmaceutical composition disclosed herein to treat pulmonary hypertension with reduced dosing frequency.

No. of Pages : 25 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051734 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : 5-AMINOLEVULINIC ACID FOR THE LOCAL TREATMENT OF INFLAMMATORY BOWEL DISEASE

(51) International classification	:C07D0413140000, C07D0403140000, C07D0401140000, C07D0417140000, A61P0037060000
(31) Priority Document No	:1905940.1
(32) Priority Date	:29/04/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2020/061949 :29/04/2020
(87) International Publication No	:WO/2020/221827
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)BASIT, Abdul, Waseh
2)YADAV, Vipul
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(57) Abstract :
The present invention relates to the therapeutic use of compositions containing 5-aminolevulinic acid for the local treatment of inflammatory bowel disease, including but not restricted to ulcerative colitis and Crohn's disease.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021
(21) Application No.202117051736 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FLUID AERATION DETECTION SYSTEMS AND METHODS

(51) International classification	:G01H0001000000, A61B0007000000, A61B0005110000, A61B0005080000, A61N0001365000
(31) Priority Document No	:62/870386
(32) Priority Date	:03/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/040625 :02/07/2020
(87) International Publication No	:WO/2021/003346
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)CRONIN, Michael J.
2)WANG, Xiaobin

(57) Abstract :
Embodiments herein relate to systems and methods for detecting aeration properties in fluids using a vibration sensor. In an embodiment, a system for fluid aeration monitoring is included having a vibration sensor configured to be mounted along a fluid flow path, and a control circuit in signal communication with the vibration sensor. The control circuit can be configured to evaluate a signal received from the vibration sensor and calculate one or more aeration parameters based on signals from the vibration sensor. Other embodiments are also included herein.

No. of Pages : 31 No. of Claims : 66

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051738 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : OXYGENATE SKIN TREATMENT SYSTEM

(51) International classification	:A61K0008220000, A61Q0005080000, C08K0005140000, A61B0018200000, C09K0011070000
(31) Priority Document No	:16/431288
(32) Priority Date	:04/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/033525 :19/05/2020
(87) International Publication No	:WO/2020/247170
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)BERNARD, Anne-Laure, Suzanne
2)BERNARD, Anne-Laure, Suzanne
3)PAN, Zhi

(57) Abstract :
A skin treatment system is disclosed including an oxygenate composition having at least one peroxide in a first aqueous phase and an activator composition, the activator composition including at least one alkaline booster in a second aqueous phase and at least one water-soluble peroxide decomposition catalyst in the second aqueous phase. Intermixing the oxygenate composition and the activator composition at least partially decomposes the at least one peroxide, liberating O2, and the skin treatment system in contact with keratinous tissue induces reduced irritation to the keratinous tissue relative to a comparative skin treatment system which is identical to the skin treatment system except for lacking the at least one water-soluble peroxide decomposition catalyst.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051739 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HIERARCHICAL PRESSURE MANAGEMENT FOR MANAGED PRESSURE DRILLING OPERATIONS

(51) International classification	:E21B0021080000, F15B0019000000, E21B0034020000, F25D0017060000, F25B0041040000
(31) Priority Document No	:62/872572
(32) Priority Date	:10/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/024154 :23/03/2020
(87) International Publication No	:WO/2021/006935
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)BARBATO, Thomas

(57) Abstract :
A method of hierarchical pressure management for managed pressure drilling operations includes receiving a measured pressure value. If the measured pressure exceeds an MPD pressure set point, commanding one or more choke valves of an MPD choke manifold to open until the measured pressure is approximately equal to the MPD pressure set point or is commanded to a fully opened choke aperture setting. If at any time the measured pressure exceeds a pressure control valve set point, parking the MPD choke manifold and commanding one or more pressure control valve system valves to open until the measured pressure is less than the pressure control valve set point or is commanded to a fully opened pressure control valve setting. If at any time the measured pressure exceeds a pressure release valve set point, commanding a pressure release valve to open.

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051740 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MONITORING GENE THERAPY

(51) International classification	:A61K0048000000, A61B0005000000, H04W0004800000, C12N0015880000, C07B0037040000
(31) Priority Document No	:62/833875
(32) Priority Date	:15/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/028102 :14/04/2020
(87) International Publication No	:WO/2020/214582
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LIAO, Jing
3)GORDO, Susana

(57) Abstract :
The present disclosure provides, among other things, technologies for improving gene therapy. Among other things, the present disclosure provides technologies that permit monitoring and/or assessment one or more characteristics of a gene therapy treatment such as, for example, extent, level, and/or persistence of payload expression. In some embodiments, provided technologies particularly useful with integrating gene therapy.

No. of Pages : 43 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051741 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF CALIBRATING TORQUE SENSORS OF INSTRUMENT DRIVE UNITS OF A SURGICAL ROBOT

(51) International classification	:G01L0003100000, B62D0005040000, D06F0034180000, G01L0025000000, B62M0006500000
(31) Priority Document No	:62/833833
(32) Priority Date	:15/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/035520 :05/06/2019
(87) International Publication No	:WO/2020/214192
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LECH, Richard
3)MACLEOD, Mark
4)SEOW, Chi Min
5)ZEMLOK, Michael

(57) Abstract :
A method of calibrating a torque sensor for a motor with a controller includes determining a gain of the torque sensor, zeroing a torque reading of the torque sensor, accelerating the motor at a known rate, and determining an inertia of the motor in response to accelerating the motor. Zeroing the torque reading occurs when the motor is in an unloaded and unactivated condition and accelerating the motor occurs when the motor is in an unloaded condition.

No. of Pages : 12 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051742 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CATHETER HANDLE WITH TORQUE MECHANISM AND VALVE RELIEF COMPONENT

(51) International classification	:A61M0025010000, A61B0017000000, A61B0017064000, A61B0017040000, A61F0002240000
(31) Priority Document No	:62/865437
(32) Priority Date	:24/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/038943 :22/06/2020
(87) International Publication No	:WO/2020/263742
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)SPINK, Ashley
3)BERTHIAUME, William
4)CHANG, William
5)UNG, Victoria
6)MITCHELL, James

(57) Abstract :
A catheter (100) includes a handle (112) with torqueing (116) and steering (144) mechanisms. The torqueing mechanism includes a rotatable nosecone (118) and a bearing (126) coupled to the nosecone to be rotatable therewith. The bearing is concentrically disposed over a shaft (102) of the catheter and is configured to transmit a torque from the nosecone to the shaft when the nosecone is rotated. The steering mechanism includes a rack (134) coupled to the bearing to be slideable therewith and a pull wire having a proximal end attached to the bearing and a distal end attached to a distal portion of the shaft. Rotation of the nosecone causes an entire length of the shaft to rotate and axial movement of the rack tensions the pull wire (16) to bend the distal portion of the shaft.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021
(21) Application No.202117051743 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SPATIALLY ADDRESSABLE ADJUSTABLE OPTICAL COMPONENT, AND ELECTRONIC DEVICE AND SYSTEM COMPRISING THE SAME

(51) International classification	:G02B0027010000, G02B0026080000, G02C0007080000, G02F0001134300, G02B0007020000
(31) Priority Document No	:62/860721
(32) Priority Date	:12/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/036418 :05/06/2020
(87) International Publication No	:WO/2020/251858
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)BAYAT, Khadijeh
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3)WANG, Chaohao
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5)ZHAO, Xianwei
6)LI, Xiaokai
7)LI, Yang
8)GE, Zhibing
9)PAI, Alex H.

(57) Abstract :
An electronic device such as a head-mounted device may have a display that displays computer- generated content for a user. The head-mounted device may have an optical system that directs the computer-generated content towards eye boxes for viewing by a user. The optical system may include a spatially addressable adjustable optical component. The adjustable optical component may have first and second electrodes and an electrically adjustable material between the first and second electrodes. The electrically adjustable material may include a transparent, conductive material such as indium tin oxide that includes a pattern of segmented trenches configured to provide the transparent conductive material with electrical anisotropy. Contacts may be coupled to the transparent conductive material. Control circuitry can adjust the electrically adjustable material to form a spatially addressable light modulator or adjustable lens.

No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051744 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : INDUCTIVE HEATING METHOD AND INDUCTIVE HEATING SYSTEM

(51) International classification	:F02B0037000000, G06N0005000000, G06N0020000000, G06F0017110000, B33Y0050020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2020/018836 :11/05/2020
(87) International Publication No	:WO/2021/229645
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)SHIMOTANI, Toshihito

(57) Abstract :
An inductive heating method according to the present invention includes steps for setting combinations of the power supplied to each of a plurality of steel-heating inductors and the position of each of the plurality of inductors. The steps for setting the combinations include: a step (S12) in which input-side predicted temperatures (Teicalf, Teicals) are calculated; steps (S13, S16, S17) in which a candidate for the combination is set; a step (S14) in which the temperature increase (QTij) that would result if the candidate were selected is predicted by using a machine learning model; a step (S15) in which an output-side predicted temperature (Tdical) is calculated; and a step (S18) in which the candidate which yields less than a threshold from an evaluation function that uses the output-side predicted temperature (Tdical) and an output-side target temperature (Tditgt) as variables, or the candidate which yields the smallest value from the evaluation function, is selected for use in the combination.

No. of Pages : 38 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051745 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FORMULATION FOR PAIN MANAGEMENT

(51) International classification	:A61K0009000000, A61K0036185000, A61K0031050000, A61K0031352000, A61K0031045000
(31) Priority Document No	:62/842696
(32) Priority Date	:03/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2020/050588 :01/05/2020
(87) International Publication No	:WO/2020/223800
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)ZETTL, Brenton Harold

(57) Abstract :
A formulation for pain management is described for use by individuals experiencing pain. The formulation comprises a plurality of cannabinoids in optimized amounts to manage pain. One or more excipient, diluent or carrier is included in the formulation. The types of pain to be managed with the formulation include but are not limited to the treatment of pain due to cancer, injury, accident, surgery, neuropathic pain or tissue damage. The primary cannabinoids are present in the formulation in amounts according to a ratio of THC:CBC:CBD ranging from 5:5:5 to 5:1:5. Methods of use of the formulation, doses and dosage forms are described which may have 5:5:5 mg or more of CBD:CBC:THC are described.

No. of Pages : 47 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051748 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SIDE COLLISION TEST APPARATUS AND SIDE COLLISION TEST CONDITION DETERMINATION METHOD FOR CENTER PILLAR OF AUTOMOBILE

(51) International classification	:G01M0017007000, B62D0025040000, B62D0021150000, G01M0007080000, B62D0025020000
(31) Priority Document No	:2019-106847
(32) Priority Date	:07/06/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/005772 :14/02/2020
(87) International Publication No	:WO/2020/246071
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)KOBIKI, Hideaki
2)SATO, Kentaro
3)SHIOZAKI, Tsuyoshi

(57) Abstract :
A side collision test apparatus 1 according to the present invention uses a collision test structure 100 including a center pillar 101, a roof rail simulation unit 103, and a rocker simulation unit 105 to perform a side collision test for the center pillar 101, the apparatus comprising a rocker support portion 7 having a rocker rotation braking mechanism 9 that supports a front end portion and a rear end portion of the rocker simulation unit 105, restrains translational movement, and also enables rotation around the axis thereof and is capable of braking the rotation, wherein the rocker rotation braking mechanism 9 includes a rocker rotation support member 19 that rotates together with the rocker simulation unit 105, and a rocker rotation braking plate 25 that brakes the rotation of the rocker rotation support member 19.

No. of Pages : 44 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051751 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRODUCTION OF WET-CAST SLAG-BASED CONCRETE PRODUCTS

(51) International classification	:B29C0035080000, C04B0111000000, C04B0040020000, C04B0028080000, B28B0001080000
(31) Priority Document No	:62/832956
(32) Priority Date	:12/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2020/050466 :09/04/2020
(87) International Publication No	:WO/2020/206540
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MAHOUTIAN, Mehrdad

(57) Abstract :
The present description relates to a method of producing a wet-cast slag-based concrete product particularly where the wet-cast slag-based concrete product is partially or completely set inside a mould, pre-conditioned outside of the mould and then cured with carbon dioxide in a curing chamber. The wet-cast slag-based concrete product is optionally reinforced.

No. of Pages : 14 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051754 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND SYSTEM FOR TESTING AN ADHESIVE USED FOR A FEMININE CARE PAD

(51) International classification	:A61F0013150000, B32B0037120000, A63B0021060000, A61F0013140000, C09J0007380000
(31) Priority Document No	:62/847486
(32) Priority Date	:14/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/032643 :13/05/2020
(87) International Publication No	:WO/2020/232099
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)STUCZYNSKI, Russell P.
3)VAN DYKE, Kayla
4)HOURIEZ, Gautier

(57) Abstract :
A system for testing an adhesive used for an adhesive-backed hygiene article, such as a feminine care pad, a breast pad, or certain adult incontinence pads, comprises first and second substrates defining a gap for positioning a weight which, by using a force measurement system, is caused to move over the substrate and to detach the adhesive-backed hygiene article from the cloth material. A method utilizes the system and measures the force as the weight moves after the weight contacts the adhesive-backed hygiene article. The force measured is reflective of the entire system, both the force required to cause the adhesive between the article and the cloth material to fail and for the article to bunch on itself. Depending on the specific test, one or two weights may be used.

No. of Pages : 16 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051769 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SCREEN CYLINDER WITH IMPROVED SLOT WIDTH PROTECTION AND METHOD OF REMOVING SOLID CONTAMINANTS FROM A SOLID SUSPENSION

(51) International classification	:D21D0005160000, B07B0001180000, F24S0025636000, B01D0033067000, B07B0001460000
(31) Priority Document No	:62/839314
(32) Priority Date	:26/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/029461 :23/04/2020
(87) International Publication No	:WO/2020/219637
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)PARENTEAU, Daniel
2)MAURAIS, Guy
3)MOUANNES, Mark
4)FLYNN, Peter Joseph
5)DEMLER, Christopher, L.
6)GREIER, Donald, K.

(57) Abstract :
A screen cylinder includes a profiled bars aligned longitudinally and coupled to at least one support ring. Each of the profiled bars includes an outer surface facing away from the support ring, a first slot surface extending from the outer surface to the attachment end, and a second slot surface opposite the first slot surface and extending from the outer surface to the attachment end of the profiled bar. The first slot surface of one profiled bar and the second slot surface of another immediately adjacent profiled bar define a slot. The profiled bars include a hardened layer integral with or disposed on at least a portion of the first slot surface of the profiled bar. The hardened layer may have a Vickers hardness greater than the hardness of the base metal.

No. of Pages : 42 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051770 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A METHOD AND APPARATUS FOR PRODUCING AT LEAST PART OF A STRUCTURAL FRAME OF A VEHICLE

(51) International classification	:B62D0027020000, B32B0038000000, E04B0001240000, B62D0025200000, F28F0009007000
(31) Priority Document No	:1907299.0
(32) Priority Date	:23/05/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2020/051119 :07/05/2020
(87) International Publication No	:WO/2020/234565
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)THOMPSON, Gregory Warren

(57) Abstract :
A method of producing at least part of a structural frame of a vehicle, the method comprising: providing a support structure (300), the support structure (300) comprising: a plurality of elongate members (301); and one or more retaining members (208) configured to retain the elongate members (301); mounting a plurality of first structural components (206) to the support structure (300) by coupling the first structural components (206) to the elongate members (301) such that each first structural component (206) occupies a different respective position along the elongate members (301); and attaching a plurality of second structural components (204) to the first structural components (206), thereby coupling together the first structural components (206) to form the at least part of the structural frame of a vehicle.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051771 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS OF REDUCING THE THICKNESS OF TEXTURED GLASS, GLASS-CERAMIC, AND CERAMIC ARTICLES WITH HIGH CONCENTRATION ALKALI HYDROXIDE AT ELEVATED TEMPERATURE

(51) International classification	:C03C0023000000, C03C0015000000, C03C0017000000, C03C0017320000, B81C0001000000
(31) Priority Document No	:62/848215
(32) Priority Date	:15/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/032555 :13/05/2020
(87) International Publication No	:WO/2020/232039
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)HEVNER, Janette, Dawn
2)JIN, Yuhui
3)LI, Aize
4)SALTZER, JR., John, Robert

(57) Abstract :
A method of modifying a substrate comprising an etching step comprising contacting one or more primary surfaces of a glass, glass-ceramic, or ceramic substrate with a solution for a time period of 20 minutes to 8 hours to generate one or more etched primary surfaces, the solution comprising over 10 percent by weight of one or more alkali hydroxides, the solution having a temperature within the range of 100 °C to 150 °C, the substrate having a thickness between the primary surfaces that decreases during the time period by 5 µm to 100 µm at a rate of 2 µm per hour or greater. The solution of the etching step does not comprise hydrogen fluoride. The one or more alkali hydroxides of the solution of the etching step can be sodium hydroxide (NaOH), potassium hydroxide (KOH), or a combination of both sodium hydroxide and potassium hydroxide.

No. of Pages : 28 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051773 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : UNDERWATER CRAFT COMPRISING MEANS FOR LAUNCHING AN UNDERWATER VEHICLE BY MEANS OF WATER PRESSURE

(51) International classification	:F41F0003100000, B63G0008320000, A47J0031360000, B63G0008000000, F41F0003070000
(31) Priority Document No	:FR1905050
(32) Priority Date	:15/05/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2020/063291 :13/05/2020
(87) International Publication No	:WO/2020/229519
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)JAGAILLOUX, Fabien
3)ARRIGNON, Geoffrey
4)LAMOTTE, Arnaud

(57) Abstract :
This underwater craft comprising means for launching an underwater vehicle by means of water pressure, comprising a vehicle launch tube (22, 23) having a front part and a rear part and the rear part of which is connected to a water distribution tank (21), itself connected to a water tube (20) in which there is positioned a piston (13) for delivering the water into the rear part of the tube (22, 23) in order to push and eject the vehicle (26, 27), is characterised in that the piston (13) is associated with means (10) forming a linear electrical actuator for moving same.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051781 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BATTERY PACK HAVING ENERGY DRAIN RESISTOR FOR PREVENTING CHAIN IGNITION

(51) International classification	:H01M0002100000, H01M0010613000, H02J0007000000, H01M0002340000, B60L0058210000
(31) Priority Document No	:10-2019-0097677
(32) Priority Date	:09/08/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/007302 :04/06/2020
(87) International Publication No	:WO/2021/029524
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)MUN, Jeong-O
3)YOO, Jae-Min
4)LEE, Yoon-Koo

(57) Abstract :
A battery pack, according to the present invention, may comprise: a plurality of battery modules arranged along at least one direction; a resistor connected to an abnormal battery module operating abnormally from among the battery modules to absorb energy; an event detection unit configured to detect the abnormal battery module; a switching module for selectively forming a closed circuit by connecting or disconnecting each of the battery modules and the resistor; and a control unit for receiving information from the event detection unit and controlling the switching module to form a current path between the abnormal battery module and the resistor.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051788 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MODULE OF AN EXPLOSION-PROOF HOUSING

(51) International classification	:H05K0005000000, H05K0005060000, G06F0001180000, G05B0019042000, B60L0058210000
(31) Priority Document No	:10 2019 113 194.4
(32) Priority Date	:17/05/2019
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2020/063041 :11/05/2020
(87) International Publication No	:WO/2020/234023
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)ARNHOLD, Thorsten

(57) Abstract :
The invention relates to a module (11, 11') for producing a housing (10), in particular a housing (10) with pressurised encapsulation protection, wherein the housing (10) encloses an interior (13) which is suitable for receiving components, which can form ignition sources. The module (11, 11') defines at least one module interior (22a, 22b) which is fluidically connected to the interior (13) of the housing (10) via a connection opening (26a, 26b). With the module, depressurised housings with different inner volume sizes can be produced.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051794 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SENSOR UNIT

(51) International classification	:H05K0001140000, G01D0005040000, G01D0005140000, G08B0013240000, G01P0003000000
(31) Priority Document No	:2019-115403
(32) Priority Date	:21/06/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/022894 :10/06/2020
(87) International Publication No	:WO/2020/255833
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)FUKUDA Kenji
2)YAMANISHI Yuta

(57) Abstract :
On a first circuit board (26), there is mounted a signal output unit of a first sensor (27) that outputs signals corresponding to the operating state of a mechanism for locking rotation of a steering shaft. On a second circuit board (35), there is mounted a signal output unit of a second sensor (36) that outputs signals corresponding to the operating state of a mechanism for detecting the rotation angle of the steering shaft. A connector (4) electrically connects the first circuit board (26) and the second circuit board (35) while allowing relative displacement of the first circuit board (26) and the second circuit board (35).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051799 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : VIDEO ENCODING/DECODING METHOD AND DEVICE USING BDPCM, AND METHOD FOR TRANSMITTING BITSTREAM

(51) International classification	:H04N0019176000, H04N0019593000, H04N0019110000, H04N0019105000, H04N0019700000
(31) Priority Document No	:62/834976
(32) Priority Date	:17/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/KR2020/005141 :17/04/2020
(87) International Publication No	:WO/2020/213976
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)YOO, Sunmi
2)HEO, Jin
3)CHOI, Jangwon
4)CHOI, Jung Ah

(57) Abstract :
Provided are a video encoding/decoding method and device. The video decoding method according to the present disclosure may comprise: a step for parsing, from a bitstream, first information indicating whether block difference pulse code modulation (BDPCM) is applied to an intra-predicted current block; a step for, when the first information indicates that BDPCM is applied to the current block, determining a prediction direction of the BDPCM for the current block, and generating a residual block of the current block on the basis of the determined prediction direction of the BDPCM; a step for generating a prediction block of the current block by performing intra prediction on the basis of an intra prediction mode of the current block; and a step for restoring the current block on the basis of the residual block and the prediction block.

No. of Pages : 55 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051800 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MATERIALS AND METHODS FOR PROTEIN PRODUCTION

(51) International classification	:C12N0009040000, C12N0015090000, C12Q0001260000, A61K0008660000, C12N0015810000
(31) Priority Document No	:62/835338
(32) Priority Date	:17/04/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/028858 :17/04/2020
(87) International Publication No	:WO/2020/215017
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)HOYT, Martin Andrew
2)GUO, Xiao
3)SHANKAR, Smita

(57) Abstract :
This document relates to materials and methods for the production of protein. In one aspect, this document provides a nucleic acid construct including a first alcohol oxidase promoter element, wherein the first alcohol oxidase promoter element includes a mutation at one or more nucleotide positions corresponding to any of nucleotide positions 668-734 relative to SEQ ID NO: 28.

No. of Pages : 114 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051802 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WIRELESS POWER RECEIVER, WIRELESS POWER TRANSMITTER, AND WIRELESS POWER TRANSFER METHOD USING SAME

(51) International classification	:H02J0050120000, H02J0007020000, H02J0050600000, H02J0005000000, H02J0050800000
(31) Priority Document No	:10-2019-0049534
(32) Priority Date	:29/04/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/005673 :29/04/2020
(87) International Publication No	:WO/2020/222528
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)PARK, Yongcheol

(57) Abstract :
A wireless power receiver, according to an embodiment of the present specification, comprises: a power pickup circuit for receiving wireless power from a wireless power transmitter on the basis of a magnetic coupling with the wireless power transmitter, and converting an alternating current signal generated by the wireless power into a direct current signal; and a communication/control circuit for communicating with the wireless power transmitter and controlling the wireless power that is received, wherein the communication/control circuit transmits, to the wireless power transmitter, an end power transfer packet for detecting a foreign object in a primary power transfer step of receiving the wireless power so as to enable the wireless power transmitter to detect the foreign object, receives a ping signal from the wireless power transmitter which has estimated that no foreign object is present, and transmits a data packet, in response to the ping signal, for entering a secondary power transfer step.

No. of Pages : 56 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021
(21) Application No.202117051805 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DATA FRAME RETRANSMISSION METHOD AND DEVICE

(51) International classification	:H04L0001180000, H04L0012801000, H04L0001000000, H04L0012873000, H04L0012851000
(31) Priority Document No	:201910297051.8
(32) Priority Date	:12/04/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/078912 :12/03/2020
(87) International Publication No	:WO/2020/207180
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)YU, Chinghwa
3)XU, Yanchao
4)WANG, Long

(57) Abstract :
A data frame retransmission method and device. The retransmission method is applied to a multilink Wi-Fi system. The multilink Wi-Fi system comprises a plurality of transmission links, and each of the transmission links comprises a queue used for determining the order in which data frames are sent. The retransmission method comprises: transmitting, when a first transmission link obtains a transmission opportunity, a first data frame at the top of a queue on the first transmission link; if the transmission of the first data frame fails, restoring the ranking of the first data frame in the queue of each transmission link in a retransmission link set or ranking the first data frame at the top of the queue of each transmission link in the retransmission link set; and retransmitting, when one transmission link in the retransmission link set obtains a new transmission opportunity, the first data frame on this transmission link. In this solution, performance indexes such as delay and buffer overflow of the Wi-Fi system can be improved.

No. of Pages : 26 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051807 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PEPTIDES AND NANOPARTICLES FOR INTRACELLULAR DELIVERY OF MOLECULES

(51) International classification	:A61K0047600000, C07K0007060000, A61K0009000000, C07K0014470000, A61K0049000000
(31) Priority Document No	:FR1904115
(32) Priority Date	:17/04/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/US2020/028572 :16/04/2020
(87) International Publication No	:WO/2020/214846
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)DESAI, Neil P.
2)DIVITA, Gilles

(57) Abstract :
The present application is directed to cargo delivery complexes for intracellular delivery of a cargo molecule comprising: a first peptide comprising a cell-penetrating peptide (CPP), a second peptide comprising a cell-penetrating peptide, and a cargo molecule. The second peptide comprises a polyethylene glycol (PEG) moiety linked to the second CPP, and the first peptide does not have a PEG moiety. The present application is also directed to a cargo delivery complex comprising a CPP and a cargo molecule wherein the CPP is a retro-inverso peptide. The present application is also directed to a cargo delivery complex comprising a CPP and a cargo molecule wherein the peptide further comprises a targeting sequence selected from the group consisting of GYVSK, GYVS, YIGS and YIGSR. Methods of making and using the cargo delivery complexes are also disclosed.

No. of Pages : 157 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051809 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FIBER REINFORCED POLYPROPYLENE COMPOSITION WITH LOW GLOSS

(51) International classification	:C08L0023120000, C08L0023160000, C08L0023140000, C08L0023100000, C08J0005040000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2019/085168 :30/04/2019
(87) International Publication No	:WO/2020/220255
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)QIANG, Emily
3)CHEN, Celia

(57) Abstract :
The present invention is directed to a fiber reinforced polypropylene composition (C) comprising a heterophasic propylene copolymer (HECO), a plastomer (PL) being an elastomeric copolymer of ethylene and at least one C4-C8 a-olefin, glass fibers (GF) and an adhesion promoter (AP). Further, the present invention is directed to an article comprising said fiber reinforced polypropylene composition (C).

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051836 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : OIS MOTOR, AND FOUR-AXIS TILT OIS ANTI-SHAKE STRUCTURE EMPLOYING BALLS

(51) International classification	:G02B0027640000, G03B0005000000, H04N0005232000, G03B0005020000, B24B0013005000
(31) Priority Document No	:201911353945.0
(32) Priority Date	:25/12/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/104067 :24/07/2020
(87) International Publication No	:WO/2021/128827
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)ZHOU, Ji
2)CHO, Yingchi

(57) Abstract :
An OIS motor, and a four-axis tilt OIS anti-shake structure employing balls. The anti-shake structure comprises a housing (1) and a lens holding device (2) disposed in an inner chamber of the housing (1). A plurality of magnets (3) are evenly arranged on inner walls of the housing (1), and a plurality of coils (4) corresponding to the magnets (3) are evenly arranged on side walls of the lens holding device (2). Coils (4) on the same side wall of the lens holding device (2) are wound in the same direction, and coils (4) on two opposite side walls of the lens holding device (2) are wound in reverse directions. A motion mechanism is disposed between the housing (1) and the lens holding device (2) to facilitate movement of the lens holding device (2). The invention realizes both a shift anti-shake function and a tilt anti-shake function on the X axis and the Y axis.

No. of Pages : 8 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021
(21) Application No.202117051837 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : USER TERMINAL AND WIRELESS COMMUNICATION METHOD

(51) International classification	:H04W0052140000, H04W0052240000, H04W0072040000, H04W0052340000, H04W0084120000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2019/018838 :10/05/2019
(87) International Publication No	:WO/2020/230220
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MATSUMURA, Yuki
2)NAGATA, Satoshi

(57) Abstract :
The user terminal according to one embodiment of the present disclosure is characterized by comprising: a control unit that, when a plurality of Transmission/Reception Points (TRPs) are set, determines transmit power of uplink transmission on the basis of an accumulated value of Transmit Power Control (TPC) commands calculated for the respective TRPs; and a transmission unit that performs the uplink transmission using the transmit power. The embodiment of the present disclosure makes it possible to perform appropriate transmit power control even when using multi-TRP.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051838 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND APPARATUS FOR SEMI-STATIC HARQ-ACK CODEBOOK DETERMINATION

(51) International classification	:H04L0001180000, H04L0005000000, H04W0072040000, H04L0001160000, H04W0072120000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2019/085433 :03/05/2019
(87) International Publication No	:WO/2020/223841
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)LEI, Haipeng
2)GOLITSCHEK EDLER VON ELBWART, Alexander

(57) Abstract :
The present application is related to a method and apparatus for semi-static HARQ-ACK codebook determination. A method for semi-static HARQ-ACK codebook determination includes: receiving downlink control information (DCI) scheduling a data transmission in a set of candidate data transmission occasions; transmitting a HARQ-ACK codebook for the set of candidate data transmission occasions; receiving another DCI scheduling another data transmission in another set of candidate data transmission occasions; and transmitting another HARQ-ACK codebook for the abovementioned another set of candidate data transmission occasions.

No. of Pages : 30 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051839 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MEANS FOR PROTECTING METHIONINE HYDROXY ANALOG FROM RUMEN DEGRADATION

(51) International classification	:A23K0050100000, A61K0009000000, A23K0040350000, A23K0020142000, A23K0020105000
(31) Priority Document No	:16/412634
(32) Priority Date	:15/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/031317 :04/05/2020
(87) International Publication No	:WO/2020/231664
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)TUCKER, Heather A.
2)MAHONEY, Matthew
3)RODE, Tracy M.
4)SCHULTZ, Jason
5)VAZQUEZ-ANON, Mercedes
6)HINE, William Scott

(57) Abstract :
Chemically modified methionine hydroxy analogs that are protected from degradation by rumen microorganisms. The chemically modified compounds comprise methionine hydroxy analog chemically linked to a fatty acid having at least 12 carbon atoms. Methods for increasing rumen bypass of methionine hydroxy analog and/or providing methionine hydroxy analog to a ruminant's small intestine for absorption, wherein the methods comprise administering to the ruminant a chemically modified methionine hydroxy analog as defined above.

No. of Pages : 29 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051841 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : GROUND ENGAGING TOOL MONITORING SYSTEM

(51) International classification	:E02F0009280000, E02F0009260000, A61N0005100000, G06F0009455000, G01J0005020000
(31) Priority Document No	:16/412553
(32) Priority Date	:15/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/027391 :09/04/2020
(87) International Publication No	:WO/2020/231555
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)PLOUZEK, John M.
2)VLAMINCK, Mitchell C.
3)FINCH, Nolan S.

(57) Abstract :
The electronic control unit (126) includes a memory (508) including computer executable instructions (510) for recognizing a ground engaging tool (134); and a processor (506) coupled to the memory (508) and configured to execute the computer executable instructions (510), the computer executable instructions (510) when executed by the processor (506) cause the processor (506) to: determine a dimension of a ground engaging tool installed on a work tool (700); compare the determined dimension of the ground engaging tool installed on a work tool to the theoretical dimension of a new ground engaging tool installed on the work tool (702); and calculate the difference between the determined dimension and the theoretical dimension (704).

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051843 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND APPARATUS FOR EXTERNAL TORQUE OBSERVATION AND COMPENSATION FOR SURGICAL ROBOTIC ARM

(51) International classification	:A61B0034300000, A61B0034000000, B25J0013080000, A61B0017000000, B25J0009160000
(31) Priority Document No	:62/856257
(32) Priority Date	:03/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/040908 :09/07/2019
(87) International Publication No	:WO/2020/246997
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)PEINE, William
2)TOBERGTE, Andreas

(57) Abstract :
A surgical robotic arm includes a first link; a second link coupled to the first link at a first joint such that at least one of the first link or the second link is movable relative to each other; and a first actuator configured to move at least one of the first link or the second link. The surgical robotic arm also includes a joint torque sensor disposed within the first joint and configured to measure torque imparted on at least one of the first link or the second link to obtain a measured torque value. The surgical robotic arm further includes a controller configured to: determine an estimated joint torque value; compare the estimated joint torque value to the measured torque value; and determine an environmental torque value based on a comparison of the estimated joint torque value and the measured torque value.

No. of Pages : 31 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051844 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TWO-COMPONENT ADHESIVE COMPOSITIONS, ARTICLES PREPARED WITH SAME AND PREPARATION METHODS THEREOF

(51) International classification	:C08G0018760000, C09J0175080000, C09J0163000000, C08G0018480000, C09J0175040000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2019/087008 :15/05/2019
(87) International Publication No	:WO/2020/227963
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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6)CHEN, Huan
7)ZHAI, Xuemei
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3)MENG, Qingwei
4)FENG, Yanli
5)CHEN, Huan
6)ZHAI, Xuemei

(57) Abstract :
A two-component adhesive composition is provided. The two-component adhesive composition comprises an isocyanate component, an isocyanate-reactive component and an amine-epoxy adduct, and can achieve superior adhesion strength between the adhesive and a substrate like metal alloy substrate. A laminated article prepared with said composition, a method for preparing the article and the use of the amine-epoxy adduct as adhesion promoter in a two-component polyurethane adhesive composition are also provided.

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2021

(21) Application No.202117051846 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DISPLAY SYSTEM FOR TRANSPORTATION NETWORKS

(51) International classification	:G06Q0050300000, G06F0016438000, G08G0001017000, G08G0001160000, G06K0019060000
(31) Priority Document No	:62/841861
(32) Priority Date	:02/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/028241 :15/04/2020
(87) International Publication No	:WO/2020/223016
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)SADOK, Mokhtar, Mansour
2)SADOK, Samia, Mhadheb

(57) Abstract :
A display device controlled via a smart phone (preferably using an TNC App) to display content selected by a requesting rider (e.g., code, symbol, the rider name, or a photo) in a clear and visible way to the waiting rider is a convenient method to identity the rider's designated vehicle instead of trying to search through model, color, and license plates of approaching vehicles as they enter a pickup area (e.g., airport designated area). The selected content is displayed on a display unit on the designated vehicle, and is transmitted to the display unit via a server associated with the designated vehicle using a secure protocol.

No. of Pages : 11 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051876 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BINDING MOLECULES

(51) International classification	:C12N0015620000, C07K0014765000, C07K0016180000, A61K0039000000, C07K0016360000
(31) Priority Document No	:1906870.9
(32) Priority Date	:15/05/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2020/051199 :15/05/2020
(87) International Publication No	:WO/2020/229842
(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)CRESCENDO BIOLOGICS LIMITED
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2)JOHNSTON, Colette
3)SYDORUK, Daniela
4)LEWANDOWSKA, Martyna

(57) Abstract :
The disclosure relates to single domain antibodies that bind human serum albumin and methods for using such single domain antibodies to extend the half life of therapeutic molecules.

No. of Pages : 38 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021
(21) Application No.202117051878 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DEVICE FOR PRODUCING A STANDING ULTRASONIC FIELD

(51) International classification	:B05B0017060000, B06B0001060000, B01F0011020000, A61M0001360000, A61B0017880000	(71)**Name of Applicant :** **1)TRAMPLER, Felix** Address of Applicant :Waldgasse 7 2371 HINTERBRÜHL Austria (72)**Name of Inventor :** **1)TRAMPLER, Felix**
(31) Priority Document No	:A 50445/2019	
(32) Priority Date	:16/05/2019	
(33) Name of priority country	:Austria	
(86) International Application No Filing Date	:PCT/AT2020/060197 :13/05/2020	
(87) International Publication No	:WO/2020/227747	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The invention relates to a device for producing a standing ultrasonic field having the frequency f in a liquid (100), in particular in order to concentrate, immobilize or manipulate dispersed particles in the liquid (100) or in order to retain or separate dispersing particles from the liquid (100), comprising: - a substantially dimensionally stable vessel (1) for holding the liquid (100); and - at least one oscillation element (2), which is acoustically connected to an outside wall (12) of the vessel (1) and can be electrically excited at the frequency f, characterized in that a piezoelectric plate of the oscillation element has at least one substantially flat lateral surface (21) and in that the oscillation element (2) is acoustically connected by means of said one flat lateral surface (21) to a substantially flat connection surface (11) of the outside wall (12) of the vessel (1) in the region of the circular cylindrical interior (14), the connection surface (11) being arranged parallel both to the main axis (H) of the circular cylindrical interior (14) and to the oscillation element (2).

No. of Pages : 54 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051886 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : REACTIVE ADHESIVE AGENT, LAMINATED FILM, AND PACKAGING BODY

(51) International classification	:C08G0018420000, C09J0175060000, B65D0065400000, C08G0018320000, B32B0027360000
(31) Priority Document No	:2019-107054
(32) Priority Date	:07/06/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/019917 :20/05/2020
(87) International Publication No	:WO/2020/246241
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)EBATO Hiroshi
4)KAMIMURA Makoto
5)FUJII Tadashi
6)TAKAHASHI Shigekazu

(57) Abstract :
Provided are a reactive adhesive agent, a laminated film using the same, and a packaging body, the reactive adhesive agent containing a polyol composition (A) and a polyisocyanate composition (B), wherein: the polyol composition (A) contains a polyester polyol (A1) that is a reaction product obtained by collectively charging polyethylene terephthalate, a polyhydric alcohol, and a polybasic acid, and/or a polyester polyurethane (A2) that is a reaction product of the polyester polyol (A1) and an isocyanate compound; and the content of metal elements derived from the polyethylene terephthalate is less than 50 ppm.

No. of Pages : 71 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051911 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD OF PURIFYING A COMPOSITION COMPRISING A GROUP B ADENOVIRUS

(51) International classification	:C12N0015860000, C12Q0001680600, C07K0001160000, C12N0007000000, C08G0065300000
(31) Priority Document No	:1909081.0
(32) Priority Date	:25/06/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2020/067668 :24/06/2020
(87) International Publication No	:WO/2020/260374
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CLARKE, Peter
2)ALVIS, Simon

(57) Abstract :
A method of purifying a composition comprising a group B adenovirus, for example comprising a purification step of: subjecting a composition comprising said group B adenovirus to diafiltration employing a diafiltration-buffer with a conductivity of at least 180 mScm-1, for example a conductivity of 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, or 290 mScm-1. Also provided is a composition obtained using the purification method disclosed herein.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051914 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRODUCTION METHOD FOR L-CYCLIC AMINO ACIDS

(51) International classification	:C12P0007640000, C12N0015520000, C12N0015090000, C12N0015810000, C12N0009000000
(31) Priority Document No	:2019-084234
(32) Priority Date	:25/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/019517 :15/05/2020
(87) International Publication No	:WO/2020/218624
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
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2)MIYAKE, Ryoma
3)KAWABATA, Hiroshi

(57) Abstract :
The present invention addresses the problem of providing a method for more easily and highly efficiently industrially producing high-purity L-cyclic amino acids from cyclic amino acids that have a double bond at the 1 position. According to the present invention, an L-cyclic amino acid is produced by making a specific enzyme act on a cyclic amino acid that has a double bond at the 1 position, the specific enzyme having catalytic performance that reduces cyclic amino acids that have a double bond at the 1 position to generate L-cyclic amino acids.

No. of Pages : 65 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051916 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FOREIGN MATTER DETECTION SYSTEM

(51) International classification	:G06K0009000000, G06T0007000000, G02B0005200000, G02B0030250000, A61B0001070000
(31) Priority Document No	:2019-094737
(32) Priority Date	:20/05/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/015074 :01/04/2020
(87) International Publication No	:WO/2020/235226
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)HU Jingyu
4)NISHIMURA Takanori
5)NAKAMURA Kenichi
6)JINGYU HU

(57) Abstract :
The present invention comprises: an image capturing device 9 that acquires an image of the inside of a target area A; transmission parts 7, 8 through which the outside can be viewed from the inside of the target area A; and polarizing filters 10a, 10b in a path of light from the transmission parts 7, 8 to the image capturing device 9. A front-side polarizing filter 10a in the image capturing device 9 and a depth-side polarizing filter 10b in the image capturing device 9 are installed so that the polarization directions cross each other. Based on the image acquired by the image capturing device 9, foreign matter F in the target area A is detected.

No. of Pages : 48 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051921 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : HEART VALVE SEALING DEVICES, DELIVERY DEVICES THEREFOR, AND RETRIEVAL DEVICES

(51) International classification	:A61F0002240000, A61B0017000000, A61N0001372000, A61L0027040000, A61F0002060000
(31) Priority Document No	:62/850458
(32) Priority Date	:20/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/033437 :18/05/2020
(87) International Publication No	:WO/2020/236735
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)GOHRES, Rachel, Ann
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5)MONTOYA, Daniel, James
6)KWON, Rhayoung
7)FRESCHAUF, Lauren, R.
8)STEARNS, Grant, Matthew
9)TYLER, Gregory, Scott, II
10)OBERWISE, Eric, Michael
11)FORD, Steven, M.

(57) Abstract :
A method and system for implanting and repositioning an implantable device for a native valve of a patient's heart includes a delivery catheter, a collar, a coupler, and an actuation element. The actuation element extends through the delivery catheter and attaches to the device to open the device. The collar is connected to the device and the coupler is connected to the delivery catheter. The collar and coupler are tied together via one or more coupling tethers which can be used to reengage the device after an initial deployment.

No. of Pages : 117 No. of Claims : 146

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051922 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS AND COMPOSITIONS FOR EDITING RNAS

(51) International classification	:C12N0015110000, C12N0015113000, G06F0040166000, C12N0009220000, C02F0009000000
(31) Priority Document No	:PCT/CN2019/082713
(32) Priority Date	:15/04/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/084922 :15/04/2020
(87) International Publication No	:WO/2020/211780
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)ZHAO, Yanxia
3)LIU, Nengyin
4)YI, Zexuan
5)TANG, Gangbin
6)WEI, Wensheng
7)QU, Liang
8)YI, Zongyi
9)ZHU, Shiyou
10)WANG, Chunhui
11)CAO, Zhongzheng
12)ZHOU, Zhuo

(57) Abstract :
Provided are methods for editing RNA by introducing a deaminase-recruiting RNA in a host cell for deamination of an adenosine in a target RNA. Further provided are deaminase-recruiting RNAs used in the RNA editing methods and compositions comprising the same.

No. of Pages : 99 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051930 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRINTING APPARATUS, PRINTER SYSTEM AND METHOD FOR PRINTING ON AN OBJECT

(51) International classification	:B29C0064118000, B65G0061000000, B29C0064357000, B29C0064106000, B29C0064379000
(31) Priority Document No	:10 2019 207 185.6
(32) Priority Date	:16/05/2019
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2020/061038 :21/04/2020
(87) International Publication No	:WO/2020/229098
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)MENSING, Matthias

(57) Abstract :
The invention relates, inter alia, to a printing apparatus (10), comprising: - a transport device, which is suitable for moving an object (20) to be printed on through a printing portion of the printing apparatus (10) in a predefined transport direction (T); - a first printing head (D1) for depositing a viscous printing material, the first printing head (D1) being slidable along a first sliding axis (S1), which is perpendicular to the transport direction (T), by means of a first printing-head moving apparatus; and - a second printing head (D2) for depositing the viscous printing material, the second printing head (D2) being slidable along a second sliding axis (S2), which is parallel to the first sliding axis (S1) and is offset in the transport direction (T), by means of a second printing-head moving apparatus. According to the invention, the first and the second sliding axes (S1, S2) can each be moved in the transport direction (T) by means of a moving apparatus controllable by a control apparatus (12).

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051931 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : POWDER PREPARATION FOR TRANSNASAL ADMINISTRATION AND METHOD FOR PRODUCING SAME

(51) International classification	:A61K0009000000, A61K0039390000, A61P0043000000, C07K0014435000, A61K0038210000
(31) Priority Document No	:2019-093150
(32) Priority Date	:16/05/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/018456 :01/05/2020
(87) International Publication No	:WO/2020/230676
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)HARUTA, Shunji
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(57) Abstract :
The present invention addresses the problem of providing a powder preparation for transnasal administration, the preparation efficiently demonstrating drug efficacy. The problem can be solved by a powder preparation for transnasal administration, containing composite particles in which an effective component and a water-insoluble polysaccharide adhere to each other.

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051932 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PORTABLE ELECTRONIC DEVICE CASE WITH THERMAL VENTS

(51) International classification	:A45C0011000000, H04B0001388800, H04M0001180000, A45C0013020000, H04M0001230000
(31) Priority Document No	:62/848444
(32) Priority Date	:15/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/030119 :27/04/2020
(87) International Publication No	:WO/2020/231624
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)YUAN, Jonny

(57) Abstract :
A case for a portable electronic device (PED) is disclosed. The case includes a body having an interior surface configured to accept a PED and an exterior surface to be exposed to outside forces. A back vent that permits the transfer heat away from the PED and to the environment presents through the body of the case. A cushioning member is placed at or near the back vent on the interior surface of the case and may substantially or completely surround the back vent. When a PED is placed within the case, the fit of the PED and the case causes the cushioning member to press against the PED in order to create a cushion for the PED in the event of an outside force being applied to the case. The case may include a screen protector within a frame that attaches to the body.

No. of Pages : 10 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051933 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR PRODUCING AN EXTRUDED SULPHUR-VULCANIZABLE RUBBER BLEND, DEVICE FOR CARRYING OUT THE METHOD AND USE THEREOF

(51) International classification	:C08L0023160000, B29B0017040000, B29B0007740000, B01J0002000000, A23P0030200000
(31) Priority Document No	:10 2019 207 732.3
(32) Priority Date	:27/05/2019
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2020/059006 :30/03/2020
(87) International Publication No	:WO/2020/239293
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SHARIFI, Monir

(57) Abstract :
The invention relates to a method for producing an extruded sulphur-vulcanizable rubber blend, comprising the following method steps: A) producing a sulphur-vulcanizable rubber blend using a mixer, or preparing a sulphur-vulcanizable rubber blend, the temperature of the sulphur-vulcanizable blend being less than 35°C, B) contactlessly heating the sulphur-vulcanizable rubber blend produced or prepared in step a. to at least 40°C in a temperature-control unit, C) measuring the temperature of the rubber blend in the temperature-control unit, and D) feeding the sulphur-vulcanizable rubber blend measured in step C) at a temperature of 35°C or greater into an extrusion unit and extruding the fed rubber blend in said extrusion unit. The invention also relates to a device for carrying out the method and to the use of this device.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051934 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND TERMINAL FOR GENERATING AN INDEX OF COMPATIBILITY BETWEEN TWO ENDS OF TWO TUBES, AND TUBE PROVIDED WITH AN ANGULAR MARKING

(51) International classification	:C30B0033000000, H04N0019137000, C08G0018810000, H04N0019147000, G06F0016310000
(31) Priority Document No	:FR1905272
(32) Priority Date	:20/05/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2020/050844 :20/05/2020
(87) International Publication No	:WO/2020/234546
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)GOTUSSO, Nicolas
2)ARMAND, Mélanie

(57) Abstract :
Method for generating a compatibility index between two ends of two tubes, in particular before welding operations, the method comprising the steps of: (a) marking an angular reference (M0) on each of the two ends, (b) orbital measurement of an inside radius of each of the ends; (c) determining an index of angular compatibility (INDthêtak) between the two ends for an angular deviation (, theta) between the angular references of the ends, said angular compatibility index deriving from a maximum difference between the inside radii of each opposite end, (d) iterating the step of determining the angular compatibility index for several values for angular deviation between the angular references of the ends; (e) generating an overall score for compatibility (Hk) between said two ends, the overall compatibility score being a function of the angular compatibility indices determined for several angular deviation values.

No. of Pages : 26 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051937 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : REFRIGERATOR

(51) International classification	:F25D0023020000, F24C0015020000, F25D0021040000, E05C0019000000, B62B0003000000
(31) Priority Document No	:10-2019-0058414
(32) Priority Date	:17/05/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/006052 :07/05/2020
(87) International Publication No	:WO/2020/235840
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)PARK, Chan Bin
2)GU, Yang-Yeol
3)LEE, Jae Jin
4)LEE, Jeong Hyun

(57) Abstract :
A refrigerator with an enhanced door includes a main body including a storeroom, first and second doors pivotally coupled to the main body to open or close the storeroom and a pivot bar pivotally installed at the first door. The pivot bar is movable between a first position between the first and second doors and a second position pivoted toward the first door to prevent cold air leaks from the storeroom. A locking device separably locks the pivot bar to the first door when the pivot bar is in the second position.

No. of Pages : 15 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051938 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : (METH)ACRYLIC COMPOSITION, PAINT AND CURING AGENT COMPRISING SAME

(51) International classification	:C09D0004000000, C09D0133060000, C08F0020300000, C08K0005130000, C08F0220300000
(31) Priority Document No	:2019-083005
(32) Priority Date	:24/04/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/016718 :16/04/2020
(87) International Publication No	:WO/2020/218151
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)KUSUBE Yasuo
3)TANIGUCHI Kazunori
4)NISHIDA Shohei

(57) Abstract :
The present invention provides: a composition which has a low viscosity, a high refractive index when being cured, and in which the precipitation of crystals is suppressed for a long time when stored at a low temperature; and a paint comprising the same. According to one embodiment of the present invention, provided is a composition which includes: a (meth)acrylate represented by general formula (1); and a compound represented by general formula (2), wherein the mass percentage of the content of the (meth)acrylate to the content of the compound represented by general formula (2) is 60:40 to 90:10 (exclusive of 60:40, and 90:10).

No. of Pages : 30 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/11/2021

(21) Application No.202117051951 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : STRAIN SHOWING LIVER FUNCTION IMPROVING ACTIVITY, AND USE THEREOF

(51) International classification	:A23L0033105000, C12N0001200000, A23L0033135000, C12R0001125000, A23L0033100000
(31) Priority Document No	:10-2019-0056228
(32) Priority Date	:14/05/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/006172 :11/05/2020
(87) International Publication No	:WO/2020/231127
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)OH, Mi Jin
4)LEE, Sang Hoon
5)LEE, Hyun Hee
6)HA, Sang Keun
7)HUR, Jin Young

(57) Abstract :
The present invention relates to a strain showing liver function improving activity, and a use thereof. Specifically, the present invention relates to a health food composition for improving liver function and a pharmaceutical composition for improving liver function, which contain, as an active ingredient, one or more strains selected from the group consisting of a Lactobacillus pentosus KF8 (accession number KCCM11997P) strain, a Bacillus subtilis KF11 (accession number KCCM11981P) strain, and a Lactococcus lactis KF140 (accession number KCCM11673P) strain, a lysate thereof or a culture product thereof. The strain of the present invention shows excellent activity in inhibiting the activity of alanine aminotransferase (ALT) or aspartate aminotransferase (AST), inhibiting an increase in the concentration of total cholesterol or triglycerides in the liver, and inhibiting fat accumulation in the liver, thereby being effectively usable in the preparation of a food composition and a pharmaceutical composition for improving liver function.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/01/2022

(21) Application No.202217000783 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : EXTENDED MOTION INFORMATION COMPARISON

(51) International classification	:H04N0019176000, H04N0019520000, H04N0019105000, H04N0019513000, H04N0019510000
(31) Priority Document No	:19306201.5
(32) Priority Date	:26/09/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/076460 :23/09/2020
(87) International Publication No	:WO 2021/058498
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LELEANNEC, Fabrice
3)BORDES, Philippe
4)POIRIER, Tangi

(57) Abstract :
In some coding modes, such as the merge mode, a list of motion candidates is generated using spatial or temporal neighboring blocks or constructed ones, and one of the motion candidates is inherited by the current block. When constructing the list of motion candidates, motion information of a candidate to be added is checked to limit the redundancy in the constructed list. In one implementation, the switchable interpolation filter, the IFindex becomes part of the motion information to be used in comparison since it can modify the resulting prediction. Furthermore, the GBiIdx indicating the weights used in bi-prediction can also be part of the motion information to be compared and could also be taken into account in the redundancy check. In general, all or part of motion information that causes different prediction can be used in redundancy check.

No. of Pages : 23 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/01/2022

(21) Application No.202217001834 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CODING TREE PARTITIONING

(51) International classification	:H04N0019960000, H04N0019176000, H04N0019119000, H04N0019700000, H04N0019122000
(31) Priority Document No	:19306169.4
(32) Priority Date	:23/09/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/076066 :18/09/2020
(87) International Publication No	:WO 2021/058380
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)GALPIN, Franck
3)URBAN, Fabrice
4)LELEANNEC, Fabrice
5)DE LAGRANGE, Philippe

(57) Abstract :
To encode a picture, a coding tree unit (CTU) in the picture is partitioned by a quadtree structure, and the quadtree leaf nodes can be further partitioned by a multi-type tree (MTT) structure. To increase the set of reachable coding tree nodes and leaves, we propose to increase the maximum allowed MTT hierarchy depth to be twice the difference between the CTU size and the minimum allowed size for a CU. The maximum allowed MTT hierarchy depth can be specified for all QT levels in order to provide more flexibility in the split tree. Alternatively, only two levels of maximum allowed MTT depth are signaled: one when QT splits are allowed, and another one when no more QT splits are allowed. In addition, an uppder bound can be set for the minimum allowed coding block size, based on the coding tree unit size or the maximum allowed transform size.

No. of Pages : 45 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002305 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : COCOA AND/OR MALT BEVERAGE PRODUCTS

(51) International classification	:A61K0036899800, A23L0002600000, A23L0002680000, A23G0001020000, A23L0033200000
(31) Priority Document No	:10201909063T
(32) Priority Date	:27/09/2019
(33) Name of priority country	:Singapore
(86) International Application No Filing Date	:PCT/EP2020/076683 :24/09/2020
(87) International Publication No	:WO 2021/058635
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)WAING, Seinn Lae
4)ANANTA, Edwin
5)YE, Lijuan
6)MULLER, Jeroen André

(57) Abstract :
The present invention relates to cocoa and/or malt beverage products comprising isomaltooligosaccharides and methods of producing such products. The products may be reduced in sugar compared to conventional cocoa and/or malt beverage products while providing a similar sweetness, texture and taste as the conventional products.

No. of Pages : 12 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002316 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : POSITIONING DEVICE AND METHOD

(51) International classification	:A61B0017000000, A61B0090000000, A61F0002240000, H04W0004020000, A61B0017340000
(31) Priority Document No	:PCT/IB2019/000915
(32) Priority Date	:20/08/2019
(33) Name of priority country	:PCT
(86) International Application No Filing Date	:PCT/IB2019/000915 :20/08/2019
(87) International Publication No	:WO 2021/033004
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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4)PAU, Antoine
5)GARD, Marco
6)WARNACK, Boris
7)BRUNEAU, Maëlle

(57) Abstract :
The invention relates to a positioning device (1) comprising a distal part (8) that is adapted to be delivered through a defect, preferably an opening in a ventricular or atrial septum. It comprises a mechanism to selectively expand the distal part (8), such that before expansion, it can be deployed through said defect, and upon expansion, is mechanically prevented from being retracted through the same defect. Thus, the positioning device (1) is temporarily engaged at the defect site.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002319 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR THE TREATMENT OF HAEMORRHAGIC FLUID FOR AUTOTRANSFUSION

(51) International classification	:A61M0001360000, A61M0001020000, A61M0001000000, B01D0061140000, A61M0001340000
(31) Priority Document No	:FR1907004
(32) Priority Date	:27/06/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2020/051115 :26/06/2020
(87) International Publication No	:WO 2020/260836
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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4)FOREST-VILLEGAS, Patricia
5)PICOT, Sylvain

(57) Abstract :
The invention relates to a method for the treatment, by filtration, of haemorrhagic fluid contained in a container with a view to subsequent autotransfusion, comprising at least one step of concentrating said haemorrhagic fluid by filtration in order to increase the concentration of red blood cells in the haemorrhagic fluid so as to achieve a target haematocrit level, while at the same time removing from the haemorrhagic fluid a filtrate comprising compounds not desired for autotransfusion, characterized in that it also comprises the following steps: - a preliminary step of measuring the haematocrit level of the haemorrhagic fluid; and - a diluting step consisting in adding, to the volume of haemorrhagic fluid to be treated, a determined volume of diluting liquid, said determined volume of diluting liquid being calculated as a function of the measured haematocrit level of said haemorrhagic fluid and of the target haematocrit level. The invention also relates to a corresponding system for the treatment of haemorrhagic fluid by filtration.

No. of Pages : 53 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002320 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : N-FORMYLHYDROXYLAMINES AS NEPRILYSIN (NEP) INHIBITORS, IN PARTICULAR AS MIXED INHIBITORS OF AMINOPEPTIDASE N (APN) AND NEPRILYSIN (NEP)

(51) International classification	:A61K0045060000, C07D0417120000, A61K0031554000, C07D0231140000, A61K0031495000
(31) Priority Document No	:1907537
(32) Priority Date	:05/07/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2020/051190 :06/07/2020
(87) International Publication No	:WO 2021/005294
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)FOURNIE-ZALUSKI, Marie-Claude
3)ROQUES, Bernard

(57) Abstract :
The present invention relates to a compound of the following formula (I): H-CO-N(OH)-CH2-CH(R1)-CO-NH-(CH2)n-CH(R2)-(CH2)m-CO-R3 (I) as well as a pharmaceutically acceptable salt and/or solvate thereof. The present invention also relates to a pharmaceutical composition comprising at least one compound of formula (I) and at least one pharmaceutically acceptable excipient. The present invention also relates to the use of a compound of formula (I), or of a pharmaceutically acceptable salt and/or solvate thereof, or of a composition comprising same, as an analgesic, anxiolytic, antidepressant or anti-inflammatory.

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022
(21) Application No.202217002324 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SYSTEM AND METHOD FOR SHARING RIGHTS TO BE RECEIVED

(51) International classification	:G06Q0030060000, G06F0021100000, G06Q0050180000, G06Q0040000000, H04N0021254000
(31) Priority Document No	:10-2019-0147608
(32) Priority Date	:18/11/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/016078 :22/11/2019
(87) International Publication No	:WO 2021/100922
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)YANG, Hong Sun

(57) Abstract :
Disclosed are a system and a method for sharing rights to be received. The disclosed system and method for sharing rights to be received is a method in which: property rights are divided for an intellectual property rights holder including patent rights or an intangible asset rights holder including business rights and joint registration thereof is not performed; only rights to receive royalties that the rights holder will receive in the future according to exercising of the intangible asset or intellectual property rights, or the like, that is, rights to receive royalties for sales or operating profits, or the like, is divided so as to issue an electronic rights certificate for the rights; and a limited amount of the electronic rights certificate is issued by limiting the quantity, transaction unit, total issuance, or the like such that the transaction can be conveniently performed, from the perspective of an issuer, with the currency of each country at a 1:1 exchange value. Stakes of the rights to be received of transaction participants are shared, it is assumed that sales or operating profits by using the corresponding intangible asset, intellectual property right or the like will be generated in the future, a certain ratio is set, and a royalty amount to be received is determined, and then the transaction participants can divide and sell the rights by stake to a third party in proportion to the stake of the issued electronic rights certificate according to the size of purchased capital of the rights, such that the rights to receive royalties is allowed to be freely transferred or sold to a third party without infringement, by the third party, of license rights for the intellectual property rights of a creator or the asset of an intangible asset holder. In addition, in the system for sharing a rights to be received of the present invention, all third rights holders and repurchasers, who have purchased the rights to receive future royalties that only the intellectual property rights holder or the intangible asset holder have received, can receive a differential payment of royalties through an automatic calculation, with respect to sales or operating profits generated by using the corresponding intellectual property rights or intangible asset, wherein the royalties are as much as the percentage, purchased by and allocated to the third rights holders and repurchasers, of the ratio of future royalty payments with respect to the total sales registered and presented online by the intellectual property rights holder in the same system.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002325 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SURGICAL STAPLING SYSTEM HAVING A LOCKOUT MECHANISM FOR AN INCOMPATIBLE CARTRIDGE

(51) International classification	:A61B0017072000, A61B0017000000, A61B0090000000, A61B0017068000, A61B0090980000
(31) Priority Document No	:62/868457
(32) Priority Date	:28/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/055699 :18/06/2020
(87) International Publication No	:WO 2020/261058
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SHELTON, IV, Frederick E.

(57) Abstract :
A surgical stapling instrument is disclosed a replaceable staple cartridge including a sled and an RFID tag. A lockout member includes a distal end. The distal end contacts a proximal portion of the sled as the replaceable staple cartridge is seated in the first jaw. A solenoid is configurable in an active configuration and an inactive configuration. The controller places the solenoid in an active configuration when the controller determines the replaceable staple cartridge is compatible for use with the surgical stapling instrument. The controller places the solenoid in an inactive configuration when an RFID scanner receives a signal from the RFID tag indicative that the replaceable staple cartridge is incompatible for use with the surgical stapling instrument. The lockout member pushes the sled distally as the replaceable staple cartridge is seated in the first jaw and the solenoid is in the inactive configuration.

No. of Pages : 128 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002326 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : STAPLE CARTRIDGES WITH CAM SURFACES CONFIGURED TO ENGAGE PRIMARY AND SECONDARY PORTIONS OF A LOCKOUT OF A SURGICAL STAPLING DEVICE

(51) International classification	:A61B0017072000, A61B0017068000, A61B0090000000, F16L0037080000, A61B0017000000
(31) Priority Document No	:62/866208
(32) Priority Date	:25/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/055246 :03/06/2020
(87) International Publication No	:WO 2020/260997
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SHELTON, IV, Frederick E.
2)HARRIS, Jason L.
3)BAKOS, Gregory J.
4)SCOTT, Gregory G.
5)STOKES, Michael J.

(57) Abstract :
A surgical stapling assembly that includes a surgical stapling device that has a lockout that is movable between a locked position and an unlocked position. The assembly further includes a staple cartridge with a first cam surface configured to cammingly engage a primary portion of the lockout to move the lockout laterally from the locked position and a second cam surface configured cammingly engage a secondary portion of the lockout to further move the lockout laterally into the locked position when the cartridge is operably seated in the device.

No. of Pages : 146 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002327 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SURGICAL INSTRUMENT WITH BATTERY COMPATIBILITY VERIFICATION FUNCTIONALITY

(51) International classification	:A61B0017072000, H01M0010420000, A61B0017000000, A61B0090000000, H02J0007000000
(31) Priority Document No	:62/868457
(32) Priority Date	:28/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/055659 :17/06/2020
(87) International Publication No	:WO 2020/261048
(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)CILAG GMBH INTERNATIONAL
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(72)**Name of Inventor :**
1)SHELTON, IV, Frederick E.

(57) Abstract :
A surgical instrument is disclosed including a housing assembly including a battery interface configured to releasably retain a battery, a radio-frequency identification scanner positioned at the battery interface, and a control circuit. The radio-frequency identification scanner is configured to receive information from the battery. The control circuit is configured to determine a compatibility of the battery with the surgical instrument based on the information received from the battery.

No. of Pages : 89 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002328 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MECHANISMS FOR MOTOR CONTROL ADJUSTMENTS OF A MOTORIZED SURGICAL INSTRUMENT

(51) International classification	:A61B0017072000, A61B0017000000, A61B0034000000, A61B0017290000, A61B0018140000
(31) Priority Document No	:62/868457
(32) Priority Date	:28/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/055658 :17/06/2020
(87) International Publication No	:WO 2020/261047
(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)CILAG GMBH INTERNATIONAL
Address of Applicant :Gubelstrasse 34 6300 Zug Switzerland
(72)**Name of Inventor :**
1)SHELTON, IV, Frederick E.
2)ADAMS, Shane R.

(57) Abstract :
A surgical instrument is disclosed including an end effector, a shaft, and a housing. The end effector includes an RFID tag configured to store end effector information. The shaft includes a first RFID scanner and a second RFID tag configured to store shaft information. The first RFID scanner is configured to detect the first RFID tag in a first attached configuration. The housing includes a second RFID scanner configured to detect the second RFID tag in a second attached configuration, a motor configured to apply a load to the end effector, and a control circuit. The control circuit is configured to receive input from the first RFID scanner indicative of the end effector information, receive input from the second RFID scanner indicative of the shaft information, and adjust at least one parameter of operation of the motor based on the end effector information and the shaft information.

No. of Pages : 83 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002342 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PRODUCE MANAGEMENT SYSTEM

(51) International classification	:G06Q0010060000, E02F0009220000, G11B0027100000, G06Q0050040000, G11B0027320000
(31) Priority Document No	:2019-131051
(32) Priority Date	:16/07/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/027384 :14/07/2020
(87) International Publication No	:WO 2021/010398
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)TAKEHIRO Yoji
2)SAITO Miyuki
3)TAKENOSHITA Koyo
4)YOSHIDA Isamu
5)NISHIMURA Ryoji
6)YAMASAKI Yusuke

(57) Abstract :
In a produce management system (1), a production-location-side device (10) outputs management data that is generated or inputted during the process of growing the produce at a production location. When the management data is acquired, a management-location-side device (70) stores or outputs at least one of the management data, related information generated during processing or inspection of the management data, and authentication information generated in accordance with acquisition of the management data.

No. of Pages : 28 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022
(21) Application No.202217002344 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD FOR CONTROLLING PROCESS, OPERATION GUIDANCE METHOD, METHOD FOR OPERATING BLAST FURNACE, METHOD FOR MANUFACTURING MOLTEN IRON, AND DEVICE FOR CONTROLLING PROCESS

(51) International classification	:G05B0013040000, G05B0017020000, G05B0013020000, B62D0003120000, G05B0011420000
(31) Priority Document No	:2019-135531
(32) Priority Date	:23/07/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/026064 :02/07/2020
(87) International Publication No	:WO 2021/014923
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)HASHIMOTO, Yoshinari
2)KAISE, Tatsuya

(57) Abstract :
A method for controlling a process, including: a free response calculation step for calculating a free response for a case in which the operation amount for all operation variables is uniform for a prescribed period defined in advance from the current time; a first response calculation step for calculating a first response for a case in which the operation amount for a first operation variable from among the plurality of operation variables is changed in steps for a prescribed period; a second response calculation step for calculating a second response for a case in which the operation amount for a second operation variable from among the plurality of operation variables other than the first operation variable is changed in steps for a prescribed period simultaneously with the operation amount for the first operation variable; and an operation-amount-determining step for determining the operation amount for the operation variables on the basis of the free response, the first response, and the second response.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002349 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS, SYSTEMS, AND APPARATUS FOR ENABLING AND MANAGING QUANTUM NETWORKS

(51) International classification	:H04L0012240000, B82Y0020000000, H04L0009080000, G06N0010000000, G06F0021100000
(31) Priority Document No	:62/876403
(32) Priority Date	:19/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/042575 :17/07/2020
(87) International Publication No	:WO 2021/016095
(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)IDAC HOLDINGS, INC.
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(72)**Name of Inventor :**
1)WANG, Chonggang
2)RAHMAN, Shamin, Akbar

(57) Abstract :
Centralized quantum capability management may be provided. A quantum network architecture may include a centralized quantum network manager. A quantum policy management may be controlled by quantum network manager. Quantum capability registration, solicitation, subscription, and discovery may be provided. Centralized quantum connection creation and management may be provided. Efficient quantum link layer services may be provided.

No. of Pages : 62 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002350 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PLANT GROWTH REGULATOR AND METHOD FOR PROMOTING PLANT GROWTH

(51) International classification	:A01N0047340000, C07F0009650600, A01N0047140000, A01N0037120000, A01N0043380000
(31) Priority Document No	:2019-128636
(32) Priority Date	:10/07/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/023333 :15/06/2020
(87) International Publication No	:WO 2021/005970
(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)KUREHA CORPORATION
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1)KOSHIYAMA, Tatsuyuki
2)EIZUKA, Takayoshi

(57) Abstract :
To provide a plant growth regulator having an excellent effect of promoting plant growth, the plant growth regulator according to the present invention comprises, as an active ingredient, a compound represented by formula (I), a tautomer thereof or an agrochemically acceptable salt of the same. (In the formula: R1 and R2 independently represent a hydrogen atom or an alkyl group having 1-4 carbon atoms; and R3 to R5 independently represent an alkyl group having 1-4 carbon atoms.)

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022
(21) Application No.202217002353 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BRAKING DEVICE WITH AUTOMATIC RELEASABILITY IN ALL OPERATING SITUATIONS

(51) International classification	:B66B0005220000, B66B0005180000, H01H0071320000, B65G0009000000, B23Q0001280000
(31) Priority Document No	:20 2019 103 423.8
(32) Priority Date	:18/06/2019
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2020/066754 :17/06/2020
(87) International Publication No	:WO 2020/254399
(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)WITTUR HOLDING GMBH
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(72)**Name of Inventor :**
1)RUSSWURM, Christoph
2)KARNER, Herbert
3)HOLZER, René
4)KRIENER, Karl

(57) Abstract :
The invention relates to a braking device for an elevator having a rail-guided elevator car, wherein the braking device has a main body to be secured (generally in floating fashion) to the elevator cabin or counterweight, which, when correctly installed, surrounds a rail and holds a braking member in position on one side of the guide rail and and holds a further braking member on the opposite side of the guide rail, at least one of the braking members being held in its ready position at a distance from the rail with the aid of a switchable holding magnet, against the force of an independent actuator, in such a way that the braking member, when the holding magnet is switched by the actuator, is pushed away from the holding magnet and against the rail, so that an air gap between the holding magnet and the braking member is created or becomes larger. The braking device is designed such that the braking member, when the elevator car is travelling (more than just negligibly) at the time when the braking member comes to bear against the rail, is retracted by itself between the main body and the rail, and such that the holding magnet is equipped with an air gap reducing means, by means of which the air gap between the holding magnet and the braking member not yet retracted between the rail and the main body can be reduced or eliminated, in such a way that the holding magnet, as soon as it is switched over accordingly, holds the braking member again magnetically.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002354 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A NET

(51) International classification	:G02F0001134300, B29D0007010000, H01L0031180000, G02B0006020000, H01L0031022400
(31) Priority Document No	:62/863909
(32) Priority Date	:20/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IL2020/050689 :21/06/2020
(87) International Publication No	:WO 2020/255146
(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)TAMA GROUP
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(72)**Name of Inventor :**
1)BLICH, Uri
2)EITAN, Rotem

(57) Abstract :
A net including a plurality of transverse bands, intersecting a plurality of longitudinal bands, the plurality of longitudinal bands each comprising two intermittently adhered films forming channels at discontinuities of adhesion between the films, and wherein at least one intersection of the longitudinal and transverse bands at least one transverse band is threaded through at least one of the channels of at least one longitudinal band.

No. of Pages : 27 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002355 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MAGE-A4 T CELL RECEPTORS AND METHODS OF USE THEREOF

(51) International classification	:A61K0039000000, C07K0014725000, A61P0035000000, C12N0005078300, A61K0038000000
(31) Priority Document No	:62/862726
(32) Priority Date	:18/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/038142 :17/06/2020
(87) International Publication No	:WO 2020/257288
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)BOWERMAN, Natalie
2)GURER, Cagan
3)HANSEN, Johanna

(57) Abstract :
The present invention provides isolated T cell receptors (TCRs) that specifically bind to an H LA-displayed cancer testis antigen Melanoma-Associated Antigen A4 (MAGE-A4) peptide, as well as therapeutic and diagnostic methods of using those isolated TCRs. The present invention provides T cell receptors (TCRs) that were generated against a MAGE-A4 peptide antigen in the context of MHC (HLA-A2). The unique TCR sequences identified have shown specific binding to the small peptide MAGE-A4 presented in the groove of an HLA molecule and exhibited activation of T cells in a reporter assay.

No. of Pages : 108 No. of Claims : 90

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002356 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IMAGE ENCODING AND DECODING METHOD AND DEVICE FOR LIMITING PARTITION CONDITION OF CHROMA BLOCK, AND METHOD FOR TRANSMITTING BITSTREAM

(51) International classification	:H04N0019176000, H04N0019119000, H04N0019105000, H04N0019159000, H04N0019593000
(31) Priority Document No	:62/863838
(32) Priority Date	:19/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/KR2020/007999 :19/06/2020
(87) International Publication No	:WO 2020/256486
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CHOI, Jangwon
2)HEO, Jin
3)YOO, Sunmi
4)CHOI, Jungah
5)KIM, Seung Hwan

(57) Abstract :
Provided are an image encoding and decoding method and device. An image decoding method performed by an image decoding device, according to the present disclosure, comprises the steps of: determining a current block by partitioning an image; acquiring prediction information of the current block; and decoding the current block by performing intra prediction, if the prediction information indicates an intra prediction mode.

No. of Pages : 63 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002357 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : IMAGE DECODING METHOD FOR PERFORMING INTER-PREDICTION WHEN PREDICTION MODE FOR CURRENT BLOCK ULTIMATELY CANNOT BE SELECTED, AND DEVICE FOR SAME

(51) International classification	:H04N0019176000, H04N0019119000, H04N0019700000, H04N0019593000, H04N0019440000
(31) Priority Document No	:62/863810
(32) Priority Date	:19/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/KR2020/007944 :19/06/2020
(87) International Publication No	:WO 2020/256454
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)JANG, Hyeongmoon
2)PARK, Naeri
3)KIM, Seunghwan

(57) Abstract :
The present invention relates to an image decoding and encoding method which can efficiently perform inter-prediction by applying a regular merge mode to the current block on the basis of the case in which an MMVD mode, a merge sub-block mode, a CIIP mode, and a partitioning mode, in which prediction is performed by dividing the current block into two partitions, are not available for the current block.

No. of Pages : 77 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002358 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : CHOREOGRAPHED RIDE SYSTEMS AND METHODS

(51) International classification	:A63G0031160000, A63G0007000000, A63G0033000000, A63G0001240000, A63G0004000000
(31) Priority Document No	:62/863598
(32) Priority Date	:19/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/037732 :15/06/2020
(87) International Publication No	:WO 2020/257101
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LARBERG MACLEAN, Lara
2)MASON, William Dale
3)VANCE, Eric Alan

(57) Abstract :
A ride vehicle (10) includes a riding assembly (20) configured to carry a rider, a base (18) configured to couple to the riding assembly (20), and a control system (32) configured to control the coordination of movements of the ride vehicle (10) with movements of separate ride vehicles (10). The base (18) includes a surface movement system configured to move the ride vehicle along a surface, a vertical movement system (40) configured to move the riding assembly (20) vertically relative to the base (18), and a roll system (44) configured to move the riding assembly (20) angularly relative to the base (18).

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002359 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : TECHNIQUES FOR SELECTIVE VIEWING OF PROJECTED IMAGES

(51) International classification	:H04N0005330000, G02B0027000000, A63G0031000000, G06K0009200000, G02B0027010000
(31) Priority Document No	:62/863622
(32) Priority Date	:19/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/037786 :15/06/2020
(87) International Publication No	:WO 2020/257113
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)BLUM, Steven C.
2)MCQUILLIAN, Brian Birney

(57) Abstract :
An entertainment enhancement system includes an infrared projection system configured to output an infrared image to a target surface. The infrared projection system includes a controller configured to coordinate projection of the infrared image with a separate action by generating instructions for projecting the infrared image based on data received by the controller indicative of an active status of the separate action and an infrared emitter configured to receive the generated instructions and emit the infrared image to the target surface. The system also includes a viewing device configured to be wearable by a user. The viewing device includes at least one lens and a filter assembly configured to shift the infrared image from an infrared frequency to a visible light frequency such that the infrared image is viewable on the target surface via the viewing device.

No. of Pages : 18 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002362 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DENSE PHASE RISER TO MAXIMIZE LIGHT OLEFINS YIELDS FOR NAPHTHA CATALYTIC CRACKING

(51) International classification	:C10G0011180000, C10G0035140000, B01J0008180000, C07C0001200000, B01J0029400000
(31) Priority Document No	:62/883051
(32) Priority Date	:05/08/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/056849 :21/07/2020
(87) International Publication No	:WO 2021/024068
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)KASHYAP, Mayank

(57) Abstract :
Systems and methods for producing light olefins via catalytic cracking of naphtha are disclosed. A naphtha feed stream and lift gas stream are fed into a dense phase riser reactor operated with a high solid volume fraction, a high superficial velocity, minimum back mixing. The effluent stream from the dense phase riser reactor is further separated, in a secondary reactor, to form a gaseous product stream and a catalyst stream. The catalyst stream is stripped to remove the hydrocarbons adsorbed on the catalyst particles. The stripped catalyst is regenerated in a regenerator.

No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022
(21) Application No.202217002364 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND DEVICE FOR CONTROLLING CODING TOOLS

(51) International classification	:H04N0013161000, H04N0019460000, H04N0019176000, H04N0019103000, H04N0019117000
(31) Priority Document No	:10-2019-0074231
(32) Priority Date	:21/06/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/008045 :22/06/2020
(87) International Publication No	:WO 2020/256510
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KIA CORPORATION
3)EWHA UNIVERSITY - INDUSTRY COLLABORATION FOUNDATION
(72)**Name of Inventor :**
1)KANG, Je Won
2)PARK, Sang Hyo
3)PARK, Seung Wook
4)LIM, Wha Pyeong

(57) Abstract :
Disclosed are a method and device for controlling coding tools. According to an embodiment of the present invention, provided is an image decoding method including the steps of: decoding, from an upper level of a bitstream, an enable flag indicating whether at least one coding tool is enabled; setting an application flag, which indicates whether the at least one coding tool can be applied, to a predetermined value or decoding the application flag from a lower level of the bitstream according to the value of the enable flag to acquire the value of the application flag; and executing the at least one coding tool when the value of the application flag is a value that indicates that the at least one coding tool can be applied. Representative drawing: Figure 5

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002368 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MONOCLONAL ANTIBODIES THAT BIND EGFRVIII AND THEIR USE

(51) International classification	:C07K0016280000, A61K0039000000, C07K0014705000, G01N0033574000, A61P0035000000
(31) Priority Document No	:62/869956
(32) Priority Date	:02/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/040544 :01/07/2020
(87) International Publication No	:WO 2021/003297
(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)THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES
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(72)**Name of Inventor :**
1)FITZGERALD, David Joseph
2)HO, Eric Chun Hei
3)ANTIGNANI, Antonella
4)SARNOVSKY, Robert Joseph

(57) Abstract :
Disclosed are monoclonal antibodies and antigen binding fragments that specifically bind epidermal growth factor receptor (EGFR) variant (v) III, conjugates thereof, and chimeric antigen receptors. Nucleic acid molecules encoding the heavy and light chain domains of the antibodies, and the chimeric antigen receptors (CARs), are also disclosed, as are host cells expressing the nucleic acid molecules. In addition, disclosed is the use of these monoclonal antibodies, antigen binding fragments, conjugates, and T cells expressing the CARs, such as for the treatment of a tumor expressing EGFRvIII. Also disclosed are methods for detecting a tumor that expresses EGFRvIII.

No. of Pages : 88 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002375 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : COMPOSITION FOR COATING SUBSTRATES, METHODS AND USES THEREOF

(51) International classification	:C09D0005000000, A61K0008020000, A61K0008670000, B01J0037080000, A61Q0019000000
(31) Priority Document No	:115599
(32) Priority Date	:26/06/2019
(33) Name of priority country	:Portugal
(86) International Application No Filing Date	:PCT/IB2020/055931 :23/06/2020
(87) International Publication No	:WO 2020/261121
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)DE SÁ MARTINS, César André

(57) Abstract :
The present invention relates to new coatings for substrates. It specifically relates to the application of the coatings to substrates made from glass, acrylic, metal or combinations thereof, in particular in order to increase the efficiency of solar panels/solar cells. The present disclosure also describes application methods and respective uses.

No. of Pages : 22 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022
(21) Application No.202217002381 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : OPTICAL FIBER SENSING SYSTEM, OPTICAL FIBER SENSING DEVICE, AND METHOD FOR DETECTING PIPE DETERIORATION

(51) International classification	:G06F0003010000, G01N0029140000, G02B0006380000, G01D0005260000, G02B0006360000
(31) Priority Document No	:2019-131495
(32) Priority Date	:16/07/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/027424 :15/07/2020
(87) International Publication No	:WO 2021/010407
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)OGURA Naoto
3)AONO Yoshiaki

(57) Abstract :
An optical fiber sensing system according to the present disclosure comprises: an optical fiber (10) that is laid in a pipe (30); a reception unit (21) that receives, from the optical fiber (10), optical signals that have vibration detected by the optical fiber (10) superimposed thereon; and a determination unit (22) that extracts, from the optical signals, the vibration pattern of the vibration detected by the optical fiber (10) and determines the state of deterioration of the pipe (30) on the basis of the extracted vibration pattern.

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002382 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : AQUEOUS EMULSION AND ADHESIVE USING SAME

(51) International classification	:C08L0029040000, C08L0031040000, C08F0002200000, C08L0095000000, B29B0009120000
(31) Priority Document No	:2019-127054
(32) Priority Date	:08/07/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/026332 :06/07/2020
(87) International Publication No	:WO 2021/006233
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)IMAOKA, Yoriko
2)TANIDA, Tatsuya

(57) Abstract :
This aqueous emulsion contains an ethylene-vinyl alcohol copolymer (A) as a dispersant and a polymer (B) that contains an ethylenically-unsaturated monomer unit and serves as a dispersoid, wherein the ethylene-vinyl alcohol copolymer (A) has an ethylene unit content of not less than 1 mol% and less than 20 mol% and the block character of the ethylene unit is 0.90-0.99. The aqueous emulsion contains the ethylene-vinyl alcohol copolymer (A) having a prescribed structure as a dispersant, and thus exhibits an excellent low-temperature storage stability and an excellent water-resistant adhesiveness.

No. of Pages : 51 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002383 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DESIGN AND EFFICIENT SYNTHESIS OF LIPID-FLUORESCEIN CONJUGATES FOR CAR-T CELL THERAPY

(51) International classification	:A61K0047680000, A61P0035000000, C07D0409140000, C07F0005060000, C08B0015060000
(31) Priority Document No	:62/870926
(32) Priority Date	:05/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/040723 :02/07/2020
(87) International Publication No	:WO 2021/007109
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)LOW, Philip Stewart
2)SRINIVASARAO, Madduri

(57) Abstract :
The disclosure relates to lipid-fluorescein conjugates, compositions comprising same, and methods of synthesis and use, such as in the treatment of cancer.

No. of Pages : 31 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022
(21) Application No.202217002384 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : WATER-BASED ADHESIVE FOR PAPER STRAW, AND PAPER STRAW IN WHICH SAME IS USED

(51) International classification	:B32B0007120000, C09J0011080000, H01B0001120000, B32B0027080000, C09D0001000000
(31) Priority Document No	:2019-127055
(32) Priority Date	:08/07/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/026333 :06/07/2020
(87) International Publication No	:WO 2021/006234
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)IMAOKA, Yoriko
3)TANIDA, Tatsuya
4)NAKAMAE, Masato

(57) Abstract :
Provided is a water-based adhesive for a paper straw, the adhesive containing an ethylene-vinyl alcohol copolymer (A) and water, and the adhesive being such that the ethylene unit content of the ethylene-vinyl alcohol copolymer (A) is at least 1 mol% and less than 20 mol%, and the block character of the ethylene units is 0.90-0.99. Due to containing an ethylene-vinyl aclohol copolymer (A) having a specific structure, the aforementioned water-based adhesive has an exceptional balance of high-speed coating properties, film strength, dynamic water resistance, and acid resistance, and moreover has exceptional high-speed coating properties, film strength, and acid resistance.

No. of Pages : 60 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002394 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FAST CHARGING BATTERY PACK AND METHODS TO CHARGE FAST

(51) International classification	:H02J0007000000, B60L0053100000, B60L0053140000, B60L0053300000, B60L0058120000
(31) Priority Document No	:62/868954
(32) Priority Date	:30/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/040129 :29/06/2020
(87) International Publication No	:WO 2021/003099
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)NGUYEN, Jack
(72)**Name of Inventor :**
1)NGUYEN, James
2)NGUYEN, Jack

(57) Abstract :
A fast charging station, battery system and method for charging battery systems can be applied to most battery types in use for electric vehicles (EVs), electronic devices, and wireless electrical machines. The system could employ industry proven battery charger systems and off-the-shelf electrical components (e.g., contactors, relay switches, semiconductor parts, DC-DC converters, and the like) to keep cost and complexity low. The system provides for two or more charging ports in the electronic device, such as an EV, that may be able to receive and recognize a charging type, such as charging voltage, current and the like, and provide directed charging to multiple battery sub-packs that make up the entire battery. By charging sub-packs in parallel, the charge time can be substantially reduced.

No. of Pages : 20 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/01/2022

(21) Application No.202217002398 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BENZISOXAZOLE SULFONAMIDE DERIVATIVES

(51) International classification	:C07D0473180000, C07D0401040000, C07D0519000000, A61K0045060000, C07D0403140000
(31) Priority Document No	:62/863199
(32) Priority Date	:18/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/055589 :16/06/2020
(87) International Publication No	:WO 2020/254946
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)CAMERINO, Michelle Ang
4)GREASLEY, Samantha Elizabeth
5)HOFFMAN, Robert Louis
6)KUMPF, Robert Arnold
7)KUNG, Pei-Pei
8)RICHARDSON, Paul Francis
9)STUPPLE, Paul Anthony
10)SUTTON, Scott Channing

(57) Abstract :
The present invention relates to compounds of formula (I) or pharmaceutically acceptable salts thereof, wherein Ring A, R1-R8, and n are defined herein. The novel benzisoxazole sulfonamide derivatives are useful in the treatment of abnormal cell growth, such as cancer, in patients. Additional embodiments relate to pharmaceutical compositions containing the compounds and to methods of using the compounds and compositions in the treatment of abnormal cell growth in patients.

No. of Pages : 191 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022
(21) Application No.202217002409 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DISPLAY DEVICE

(51) International classification	:H01L0027320000, H01L0027120000, G02F0001136200, H01L0051500000, G02F0001133300
(31) Priority Document No	:10-2019-0071856
(32) Priority Date	:17/06/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/000845 :17/01/2020
(87) International Publication No	:WO 2020/256248
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)LEE, Hyeon-Bum
3)PARK, Kwang-Woo
4)JUNG, Jin-Whan
5)HONG, Jong-Beom

(57) Abstract :
A display device comprises: a flexible base substrate; a first active pattern and a second active pattern disposed on the base substrate; an inorganic insulating layer disposed on the first and second active patterns and defining an opening area; a first organic insulating pattern disposed inside the opening area; a bridge electrode disposed on the first organic insulating pattern; a second insulating layer disposed on the bridge electrode; a fourth organic insulating layer disposed on the second organic insulating layer; a first pixel electrode, electrically connected to the first active pattern, and a second pixel electrode, electrically connected to the second active pattern, which are disposed on the fourth organic insulating layer; and a third organic insulating pattern disposed between the second organic insulating layer and fourth organic insulating layer, overlapping the second pixel electrode, and not overlapping the first pixel electrode.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002410 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SOLID DOSE FORMULATIONS FOR NEEDLE-FREE DELIVERY

(51) International classification	:A61K0009200000, A61K0039000000, A61M0005300000, A61K0009160000, A61P0035000000
(31) Priority Document No	:1909280.8
(32) Priority Date	:27/06/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2020/051541 :25/06/2020
(87) International Publication No	:WO 2020/260882
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
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2)MACGREGOR, Chris

(57) Abstract :
The present disclosure relates to solid dose formulations for needle-free delivery comprising 0.01 to 60 (w/w) of one or more therapeutic agent and/or prophylactic agent; and 40.0% to 99.99 % (w/w) of dextran. The invention further concerns methods of producing a solid dose formulation tablet and application its particular medical uses, in particular as a vaccine.

No. of Pages : 22 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022
(21) Application No.202217002411 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : ELECTRONIC DEVICE COMPRISING FLEXIBLE DISPLAY

(51) International classification	:H04M0001020000, G06F0001160000, H01L0051000000, H05K0005020000, H04N0005225000
(31) Priority Document No	:10-2019-0075287
(32) Priority Date	:24/06/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/008236 :24/06/2020
(87) International Publication No	:WO 2020/262965
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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7)CHUNG, Hyunwoong
8)CHO, Joungmin
9)KIM, Kwangtai
10)YEOM, Donghyun
11)HEO, Changryong

(57) Abstract :
In an embodiment, a portable communication device comprises: a housing forming the appearance of the portable communication device; a flexible display which is at least partially accommodated in the housing and can be bent with respect to a bending axis, the flexible display comprising at least one layer, and the at least one layer having an opening therein; and an image sensor module which is at least partially located in a space formed by the opening, wherein the at least one layer comprises a first inner surface located in a first direction with respect to the image sensor module and a second inner surface located in a second direction opposite the first direction with respect to the image sensor module, wherein as the flexible display is at least partially bent, the first inner surface is moved in the second direction, and when the flexible display is unfolded substantially flat, a first separation distance between a first side of the image sensor module facing the first inner surface of the at least one layer and the first inner surface of the at least one layer can be greater than a second separation distance between a second side of the image sensor module facing the second inner surface of the at least one layer and the second inner surface of the at least one layer.

No. of Pages : 51 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002413 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : SURFACE MODIFIED CELLULOSE FIBER

(51) International classification	:C08L0023120000, D21H0011100000, C08L0067040000, D21C0009000000, C08L0101160000
(31) Priority Document No	:19186844.7
(32) Priority Date	:17/07/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/069743 :13/07/2020
(87) International Publication No	:WO 2021/009114
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)BALLET, Wim

(57) Abstract :
A process for producing surface modified bleached chemical pulp fiber comprising fluidizing the bleached chemical pulp fiber and contacting the fluidized bleached chemical pulp fiber with an aerosol of a surface modifying composition comprising a surface modifying compound.

No. of Pages : 16 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002414 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : A COATING COMPOSITION

(51) International classification	:C09D0167080000, C08G0063480000, C09D0011105000, C09D0133140000, A61K0008360000
(31) Priority Document No	:19186625.0
(32) Priority Date	:16/07/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/069662 :10/07/2020
(87) International Publication No	:WO 2021/009079
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)WEIJNEN, John
2)BANDŽUCH, Jan
3)VLASÁKOVÁ, Jarmila

(57) Abstract :
An auto-oxidisable coating composition comprising: (a) a modified alkyd resin, wherein the modified alkyd resin comprises the reaction product of reactants comprising: i. a polybasic acid or anhydride thereof; ii. a polyhydric alcohol; iii. an unsaturated fatty acid or oil; and iv. an unsaturated conjugated monocarboxylic acid having up to 10 carbon atoms; and (b) a primary drying agent comprising a metal selected from the group comprising manganese, vanadium and iron, and mixtures thereof, wherein the primary drying agent is substantially free of cobalt.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002415 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : COMPOSITIONS CONTAINING THERMALLY CONDUCTIVE FILLERS

(51) International classification	:C08K0003380000, C08K0007180000, C04B0035581000, H01L0023373000, C09K0005140000
(31) Priority Document No	:1908020
(32) Priority Date	:16/07/2019
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/US2020/042099 :15/07/2020
(87) International Publication No	:WO 2021/011628
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)LÉON, Josiane
3)MA, Liang
4)CONDIE, Allison G.
5)FRENCH, Maria S.

(57) Abstract :
The present invention is directed to a composition comprising a thermoplastic polymer and a thermally conductive filler package comprising thermally conductive, electrically insulative filler particles having a thermal conductivity of at least 5 W/m K (measured according to ASTM D7984) and a volume resistivity of at least 10 O m (measured according to ASTM D257, C611, or B 193) and being present in an amount of at least 50% by volume based on total volume of the filler package. The present invention also is directed to coatings comprising a thermal conductivity of at least 0.5 W/m K (measured according to ASTM D7984) and to substrates, at least a portion of which is coated with such a coating.

No. of Pages : 31 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002416 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : RECEIVING DISK FOR SEGMENTED PULLEY TRANSMISSION AND SEGMENTED PULLEY TRANSMISSION INCLUDING THE SAME

(51) International classification	:H01R0013627000, F16H0055360000, F21Y0105100000, A61M0039100000, A61B0017000000
(31) Priority Document No	:62/864200
(32) Priority Date	:20/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2019/051714 :29/11/2019
(87) International Publication No	:WO 2020/252558
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)WONG, Anthony
2)LUTOSLAWSKI, Jaroslaw

(57) Abstract :
A receiving disk for a segmented pulley transmission is provided. The receiving disk comprises: a generally circular body having a pulley facing side and a rear side, opposite the pulley facing side; at least one mating feature located at the pulley facing side of the body, the mating feature being configured to engage a complimentary mating feature, which is secured to a pulley segment of the segmented pulley transmission, when the pulley segment is in an engaged region; and at least one securing feature located in proximity to the mating feature and configured to secure the complimentary mating feature, when the complimentary mating feature is engaged with the mating feature. A segmented pulley transmission comprising the receiving disk is further provided.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002417 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : BIOLOGICAL FLUID TREATMENT SYSTEMS

(51) International classification	:A61M0001020000, A61M0001360000, A61L0002000000, G09G0003340000, A61L0002100000
(31) Priority Document No	:62/865207
(32) Priority Date	:22/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/039011 :22/06/2020
(87) International Publication No	:WO 2020/263759
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)CHURCH, Daniel
2)ISON, Lloyd
3)STERN, Marc

(57) Abstract :
Disclosed herein is systems, methods, and apparatuses for treating biological fluids. In some embodiments, the biological fluid treatment system includes a treatment, a platform, an array of light sources, and a display. In some embodiments, the biological fluid treatment system includes a scanner.

No. of Pages : 73 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002423 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : DISUBSTITUTED PYRAZOLE COMPOUNDS AS KETOHEXOKINASE INHIBITORS

(51) International classification	:C07D0413140000, C07D0263560000, C07D0213650000, C07D0263580000, A61K0031472500
(31) Priority Document No	:62/862382
(32) Priority Date	:17/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/037894 :16/06/2020
(87) International Publication No	:WO 2020/257171
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)DURHAM, Timothy Barrett
3)JOHNSTON, Richard Duane
4)MASSEY, Steven Marc
5)SPINAZZE, Patrick Gianpietro
6)STACK, Douglas Richard
7)TOTH, James Lee

(57) Abstract :
The present invention provides a compound of Formula I: or a pharmaceutically acceptable salt thereof, and the use of compounds of Formula I for treating metabolic conditions, such as type 2 diabetes mellitus, heart failure, diabetic kidney disease, and non-alcoholic steatohepatitis.

No. of Pages : 85 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002427 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FLOOR MOP

(51) International classification	:F16B0007040000, F16B0037080000, F16F0007120000, A45B0009000000, A46B0011000000
(31) Priority Document No	:16/528083
(32) Priority Date	:31/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/057037 :24/07/2020
(87) International Publication No	:WO 2021/019411
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)METZEL, Doug
2)WEHRLI, Eric

(57) Abstract :
An actuable shaft assembly for a spray mop assembly includes first and second hollow elongated outer shaft segments in which first and second elongated actuating rod segments are telescopingly disposed, respectively. The first and second outer shaft segments include respective first and second shaft retaining elements extending into their hollow interiors. The first and second rod segments include respective first and second rod retaining elements extending radially outward from their outer peripheral surfaces. The rod retaining elements and shaft retaining elements are sized and disposed to limit telescoping movement of the associated rod segments outward from the shaft segment ends.

No. of Pages : 16 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002433 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHODS AND DEVICES FOR SINGLE-CELL BASED DIGITAL HIGH RESOLUTION MELT

(51) International classification	:B01L0003000000, C12Q0001686000, C12N0015100000, C12Q0001680600, C12M0001340000
(31) Priority Document No	:62/874543
(32) Priority Date	:16/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/051142 :16/09/2020
(87) International Publication No	:WO 2021/011943
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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1)SINHA, Mridu
2)SIMKOVSKY, Ryan
3)SRIDHAR, Kaushik
4)PAUL, Shubhodeep
5)CHAUDHARY, Amol

(57) Abstract :
Provided are devices, systems, and methods for the identification, quantification, and profiling of microscopic organisms. The methods for the identification, quantification, and profiling of microscopic organisms include, for example, the selective enrichment of microscopic organisms from a heterogeneous sample; subsequent loading of the microscopic organisms into microfluidic channels or reaction chambers; direct amplification of nucleic acids from single, isolated microscopic organisms; and examination of amplification products using digital High Resolution Melting (HRM) analysis.

No. of Pages : 35 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002434 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : PARENTERAL LYSOPHOSPHATIDYLCHOLINE FORMULATIONS SUCH AS LPC-DHA, LPC-EPA AND THEIR USE IN THERAPY

(51) International classification	:A61K0009000000, A61K0047240000, A61K0031685000, A61K0031202000, A61K0009480000
(31) Priority Document No	:62/864073
(32) Priority Date	:20/06/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2020/067263 :21/06/2020
(87) International Publication No	:WO 2020/254675
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)MYHREN, Finn
3)HOEM, Nils
4)HALS, Petter-Arnt
5)BERG STORSVE, Andreas
6)HÅTI, Armend, Gazmeno

(57) Abstract :
The present invention relates to pharmaceutical formulations of phospholipids, and in particular pharmaceutical formulations which are administered intravascularly such as intravenously. In particular, the present invention provides pharmaceutical compositions for intravascular administration comprising phosphatidylcholine derived compounds carrying an omega-3 fatty acid for use in prophylaxis or therapy.

No. of Pages : 83 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002438 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : THICKENERS AND NUTRITIONAL PRODUCTS TO PROMOTE SAFE SWALLOWING FOR INDIVIDUALS WITH DYSPHAGIA AND METHODS OF MAKING AND USING SAME

(51) International classification	:A23L0033000000, A23L0029269000, A61K0009000000, A61K0031716000, A23L0029238000
(31) Priority Document No	:62/890878
(32) Priority Date	:23/08/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2020/073570 :21/08/2020
(87) International Publication No	:WO 2021/037767
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)AMANI, Javad
3)JEDWAB, Michael
4)STEVENSON, Nancy

(57) Abstract :
A thickener is disclosed, as well as a nutritional product including the thickener, uses thereof, methods for the manufacture thereof, methods for improving the cohesiveness of a nutritional product, and related systems. The nutritional products have improved cohesiveness for promoting safer and more efficient swallowing of food boluses for individuals having swallowing difficulties such as dysphagia. In a preferred embodiment, the nutritional product includes a thickener comprising a beta-glucan and an additive. Preferably, the nutritional product has a relaxation time, determined by a Capillary Breakup Extensional Rheometry (CaBER) experiment, of from 10 ms to 2000 ms at a temperature of 20° C.

No. of Pages : 42 No. of Claims : 127

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002440 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : MULTIVALENT PNEUMOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE COMPOSITIONS AND METHODS OF USING THE SAME

(51) International classification	:A61K0039090000, A61K0039000000, A61K0047640000, A61K0039385000, A61P0031040000
(31) Priority Document No	:10-2019-0093276
(32) Priority Date	:31/07/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/US2020/043729 :27/07/2020
(87) International Publication No	:WO 2021/021729
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)KIM, Sunghyun
3)KIM, Hun
4)AN, Kyungjun
5)LEE, Jeong-min
6)KYAW, Moe
7)TALAGA, Philippe

(57) Abstract :
Provided are multivalent pneumococcal conjugate compositions comprising 22-27 different pneumococcal capsular polysaccharide-protein conjugates, wherein each pneumococcal capsular polysaccharide-protein conjugate comprises a protein carrier conjugated to a capsular polysaccharide from a different serotype of Streptococcus pneumoniae, wherein the Streptococcus pneumoniae serotypes are selected from 1, 3, 4, 5, 6A, 6B, 7F, 8, 9N, 9V, 10 A, 11 A, 12F, 14, 15A, 15B, 15C, 18C, 19A, 19F, 22F, 23 A, 23B, 23F, 24F, 33F, and 35B. Also provided are methods of producing the multivalent pneumococcal conjugate compositions and methods of using the same for prophylaxis against Streptococcuspneumoniae infection or disease in a subject. Also provided are immunogenic compositions comprising at least one polysaccharide-protein conjugate wherein the polysaccharide is a capsular polysaccharide from Streptococcus pneumoniae serotype 15A, 15C, 23 A, 23B, 24F, and/or 35B and methods of preparing the same.

No. of Pages : 87 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002445 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : FLOOR MOP

(51) International classification	:A43B0013180000, F03D0003060000, A61B0017072000, F28F0003040000, A47L0013256000
(31) Priority Document No	:16/528050
(32) Priority Date	:31/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2020/057034 :24/07/2020
(87) International Publication No	:WO 2021/019410
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)METZEL, Doug
2)WEHRLI, Eric

(57) Abstract :
A floor mop including a handle, a shaft coupled to the handle, a multidirectional joint coupled to the shaft opposite the handle, and a mop plate. The mop plate is unitarily formed and includes an upper plate including an upper surface, a substantially parallel lower plate including a lower surface, lateral faces extending between the upper and lower plate, and at least one internal web extending between the upper and lower plates. The upper plate, lower plate, lateral faces and at least one internal web are unitarily formed. The mop plate and the multidirectional joint further include complementary coupling structures.

No. of Pages : 13 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002446 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : METHOD AND SYSTEM FOR DETERMINING PROPERTIES IN A VESSEL

(51) International classification	:G01M0099000000, F03H0001000000, H04R0029000000, G01N0013000000, H04L0029060000
(31) Priority Document No	:19315100.8
(32) Priority Date	:21/08/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/073457 :21/08/2020
(87) International Publication No	:WO 2021/032869
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)POULETTY, Philippe
2)BRUNEAU, Maëlle

(57) Abstract :
The invention is directed to a method of determining properties in a vessel or the heart (V) of a patient. It comprises the steps of placing an element in a vessel or the heart (V) and determining a propulsion force (2) acting on the element. Furthermore, at least one of acceleration (3) and velocity (4) of the element is determined. At least one property of a neighbouring medium of the element is determined based on the propulsion force and at least one of acceleration (3) and velocity (4) of the element.

No. of Pages : 17 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/01/2022

(21) Application No.202217002448 A
(43) Publication Date : 25/03/2022

(54) Title of the invention : RNA CONSTRUCT

(51) International classification	:C12N0015113000, A61K0048000000, C12N0015860000, A61K0039000000, A61K0045060000
(31) Priority Document No	:1908729.5
(32) Priority Date	:18/06/2019
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2020/051465 :18/06/2020
(87) International Publication No	:WO 2020/254804
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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2)BLAKNEY, Anna
3)MCKAY, Paul

(57) Abstract :
The invention relates to RNA constructs encoding (i) at least one therapeutic biomolecule; and (ii) at least one innate inhibitor protein (IIP). The constructs are RNA replicons and saRNA molecules, and the invention includes genetic constructs or vectors encoding such RNA replicons. The invention extends to the use of such RNA constructs and replicons in therapy, for example in treating diseases and/or in vaccine delivery. The invention extends to pharmaceutical compositions comprising such RNA constructs, and methods and uses thereof.

No. of Pages : 100 No. of Claims : 36

CONTINUED TO PART-2