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

19nd NOVEMBER, 2021

CONTENTS

SUBJECT		*PAGE NUMBER*
JURISDICTION	**:**	**54574 – 54575**
SPECIAL NOTICE	**:**	**54576 – 54577**
EARLY PUBLICATION (DELHI)	**:**	**54578 – 54715**
EARLY PUBLICATION (MUMBAI)	**:**	**54716 – 54744**
EARLY PUBLICATION (CHENNAI)	**:**	**54745 – 54854**
EARLY PUBLICATION (KOLKATA)	**:**	**54855 – 54857**
PUBLICATION AFTER 18 MONTHS (DELHI)	**:**	**54858 – 55566**
PUBLICATION AFTER 18 MONTHS (MUMBAI)	**:**	**55567 – 55636**
PUBLICATION AFTER 18 MONTHS (CHENNAI)	**:**	**55637 – 55741**
PUBLICATION AFTER 18 MONTHS (KOLKATA)	**:**	**55742 – 55756**
WEEKLY ISSUED FER (DELHI)	**:**	**55757 – 55797**
WEEKLY ISSUED FER (MUMBAI)	**:**	**55798 – 55819**
WEEKLY ISSUED FER (CHENNAI)	**:**	**55820 – 55884**
WEEKLY ISSUED FER (KOLKATA)	**:**	**55885 – 55890**
APPLICATION(S) FOR RESTORATION OF LAPSED PATENT(S) [PUBLICATION U/S 61(1) RULE 84(3)](DELHI)	**:**	**55891**
APPLICATION FOR POST GRANT AMENDMENTS [PUBLICATION U/S 57(3) RULE 81(3)(A)](DELHI)	**:**	**55892**
PUBLICATION U/R 84[3] IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS (KOLKATA)	**:**	**55893**
PUBLICATION U/S.60 IN RESPECT OF APPLICATION FOR RESTORATION OF PATENTS (KOLKATA)	**:**	**55894**
AMENDMENT UNDER SECTION 57(KOLKATA)	**:**	**55895**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (DELHI)	**:**	**55896 – 55909**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (MUMBAI)	**:**	**55910 – 55914**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (CHENNAI	**:**	**55915 – 55930**
PUBLICATION UNDER SECTION 43(2) IN RESPECT OF THE GRANT (KOLKATA)	**:**	**55931 – 55934**
INTRODUCTION TO DESIGN PUBLICATION	**:**	**55935**
CANCELLATION PROCEEDINGS UNDER SECTION 19 OF THE DESIGNS ACT, 2000 &DESIGNS RULES, 2001 (AS AMENDED)	**:**	**55936**
CANCELLATION PROCEEDINGS UNDER SECTION 19 OF THE DESIGNS ACT, 2000 &UNDER RULE 29(1) OF DESIGNS RULES, 2001 (AS AMENDED)	**:**	**55937**
REGISTRATION OF DESIGNS	**:**	**55938 - 56021**

THE PATENT OFFICE
KOLKATA, 19/11/2021
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Website: www.ipindia.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 19/11/2021

• 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
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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

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.202111017647 A

(19) INDIA

(22) Date of filing of Application :15/04/2021

(43) Publication Date : 19/11/2021

(54) Title of the invention : AN ERGONOMIC STUDY TABLE CONSIDERING COVID-19 SITUATION

(51) International classification	:G06Q0010100000, A47B0023000000, A47B0003080000, A47B0009060000, G06Q0050200000
(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 study table (100) comprising: a stand frame (102) having a first pair of legs (114a-114b) and a second pair of legs (116a-116b), such that the first pair of legs (114a-114b) and the second pair of legs (116a-116b) are adapted to be collapsed into a compact form, wherein the stand frame (102) comprises: a footrest (120) to be adjusted at different angles to provide a support to feet of students; and a bottle holder (128) to enable the students to keep a water bottle. The study table (100) comprising: a working surface (104) to hold a first set of components of the study table (100); and a backboard (106) to enable the students to put up reminder items selected from notices, schedules, to-do lists, or a combination thereof on the backboard (106).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/07/2021

(21) Application No.202111030311 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANALYSIS AND MONITORING OF SMART HEALTHCARE MONITORING SYSTEM IN IOT ENVIRONMENT

(51) International classification :H04L0029080000, G16H0050200000, A61B0005145000, G16H0040670000, G16H0050300000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present disclosure relates to an IoT-based smart healthcare data monitoring and analyzing system and the method thereof. The aspects of the system comprise a plurality of health monitoring wireless sensors (102), a short-range transmission circuitry (104), a microcontroller-based local analysis circuitry (106), a near field communication module (108), an IoT server (110), a long-distance communication module (112), and a digital display module (114). The method (200) for the same comprises steps of connecting the sensing nodes (202), transmitting the sensed data (204), analyzing the collected data (206), uploading (208) the analyzed and collected data (206), monitoring (210) the collected data (206), and sending the critical data (212) to doctor.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/07/2021

(21) Application No.202111032015 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFINITE SOURCE OF ENERGY

(51) International classification	:F16H0037080000, A62D0001000000, A23K0020158000, A61B0017135000, H01M0008042230
(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 efficient energy producing device with a very small and simplified footprint disclosed. The device comprises of a torus shaped glass (1) and work on the principle of kinetic energy conversion to electrical. The glass (1) has a very low pressure close to (0.2-0.3pa) because of Vaccum attached (4) and the atmosphere is inert only helium gas present from helium tank (5). The electron (11) from the cathode ray tube (13) with the heating element cesium (6) which has very low ionization energy which could be easily ionized by energy supply by solar panel (7) which is connected with a voltage controller (8) which will regulate kinetic energy of electrons In the tube whose trajectory changes due to presence of heavily charged nonmetallic non conducting sphere (2) which is held by an insulating rod (14). The electron exits from the outlet (12), coated with ZnS (3) which act as an indicator of electrons. The electron enters the wire (10) and finally the operating system which is connected to it (9)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/09/2021

(21) Application No.202111040357 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FUNCTIONALIZED BIOCHAR COMPOSITION AND METHOD FOR PREPARATION THEREOF

(51) International classification	:B01J0020300000, B01J0020200000, B01J0021180000, B01J0023720000, B01J0035000000
(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 functionalized biochar composition, comprising, i) herbal extract in the range of 50-70 wt. %, ii) zinc chloride in the range of 50-70 wt. %, iii) nickel oxide in the range of 0.1-2 wt. %, and iv) distilled water in the range of 1-10 wt. %. The method for preparation of the biochar composition comprising the following steps, i) dissolving the zinc chloride in the distilled water in a beaker to obtain a solution, ii) introducing the nickel oxide in the solution, followed by continuous stirring overnight to obtain an activating mixture, iii) crushing the herbal extract and the activating mixture with a mortar-pestle to obtain a mixture slurry, iv) drying the mixture slurry at 60-80°C for 20-24h to obtain a dried powder and v) carbonizing the dried powder at 750-800°C for 30 - 50min, followed by washing with 1 M HCl and distilled water to obtain functionalized biochar.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202111044786 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR PRODUCING DRUG SUBSTANCE LOADED NANOPARTICLES

(51) International classification :A61K0009510000, A61K0009160000, A61K0009127000, D01F0001100000, A61K0009190000
(86) International Application No :NA
Filing Date :NA
(87) 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 provides a method for producing drug substance loaded nanoparticles. The method comprises steps of: preparing an internal aqueous phase by mixing a drug substance into a first solution of polyvinyl alcohol (PVA); formulating a solution of a polymer matrix (PEG+ lactic-co-glycolic acid) copolymer) in an organic solvent and producing a water-in-oil (W1/O) emulsion by mixing the prepared internal aqueous phase and the formulated solution of polymer matrix. Adding drop by drop and under continuous homogenization condition, the prepared W1/O emulsion into a second solution of PVA to produce a nano water-in-oil-in-water (W1/O/W2) emulsion; centrifuging, the produced nano W1/O/W2 emulsion to produce a pellet, which undergoes freeze drying to produce the drug substance loaded nanoparticles.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202111044787 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NANOPARTICLES FOR SHORT HAIRPIN RNA (SHRNA) DELIVERY

(51) International classification :C12N0015113000, A61K0009510000, A61K0009160000, B82Y0030000000, A61K0009500000
(86) International Application No :NA
Filing Date :NA
(87) 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 provides a double emulsion solvent evaporation-based fabrication method for shRNA loaded nanoparticles. The method comprises preparing an internal phase by mixing shRNA into aqueous PVA solution, and preparing a primary emulsion by homogenous fusion of internal phase with organic phase comprising polymer matrix (e.g., poly (lactic-co-glycolic acid) copolymer (PLGA) and the polyethylene glycol) in organic solvent (e.g., DCM). The primary emulsion can be added into PVA solution in a drop-by-drop manner to produce a nano emulsion, which can be freeze dried, after washing steps, to produce shRNA loaded nanoparticles.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/10/2021

(21) Application No.202111044788 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR TREATING HOUSEHOLD WASTE

(51) International classification	:C12M0001000000, C05F0017500000, B09B0003000000, C05F0009020000, B07C0005360000
(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 system and segregating and converting a kitchen waste into useful products (e.g., fertilizer, biogas etc.). The method comprises a steps of receiving, at a hopper, the waste material from a user; capturing, through an optical sensor, one or more images of each component of the received waste material; removing, through a sorting assembly, one or more metallic waste components and one or more plastic waste components from the received water material to produce organic waste material; segregating, via a classifier unit, the organic waste material into a first stream comprising one or more compostable waste and a second stream comprises one or more non- compostable waste; transferring, through a first conveyor belt, the first stream into an aerobic chamber; measuring one more parameters (e.g. temperature, humidity etc.) of the aerobic chamber; transferring, through a second conveyor belt, the second stream into an anaerobic chamber; measuring one or more ambience factors of the anaerobic chamber; and transmitting a notification to one or more computing devices.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045788 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD AND SYSTEM TO RETRIEVE AND SORT EMAILS

(51) International classification :H04L0029060000, H04L0012580000, G06Q0010100000, G16B0020200000, G06Q0050320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present disclosure relates to a system and method for identifying and sorting e-mails based on email filter that has been personalized for or by a user. The method comprises steps of: receiving, at a user terminal, an authentication credential, and a filtration command, from a first priority list, a second priority list and a third priority list, to retrieve one or more emails; authenticating, the user based on the pre-stored credential information of one or more subscribers; generating, an email corpus comprising one or more emails corresponds to the authenticated user, from the email database; applying, the received filtration criteria command on the generated email corpus to retrieve one or more emails which satisfies the filtration command; creating, a display menu comprising the set of one or more filtered emails; and transmitting, the created display menu to the user terminal, through the network interface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045789 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD AND SYSTEM TO CLASSIFY ONE OR MORE MESSAGES OF AN INSTANT MESSAGING PLATFORM

(51) International classification :H04L0012580000, H04L0029060000, H04W0012060000, G06Q0010100000, G06F0016280000
(86) International Application No :NA
Filing 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 provides a system and method for classifying messages of an instant messaging platform. The method comprise steps of receiving, through a user terminal, an authentication credentials of the user; the user defined a list of classes in which one or more incoming one or more messages are to be categorized; and a classification rule for each of the class; acquiring, at a server arrangement, the authentication credential, the list of classes and classification rule for each of the classes; authenticating, the user based on the pre-stored credential information of one or more user; applying, the classification rule to classify each of incoming message to one or more classes; creating, a display representation that includes classified one or more incoming messages; and transmitting the created display representation to the user terminal.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045790 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BLOOD GLUCOSE LEVEL DETECTING APPARATUS

(51) International classification	:A61B0005145000, G01N0027327000, A61B0005145500, A61B0005148600, G01N0033490000
(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 relates to a system and method for calculating a glucose concentration of biological fluid sample (e.g., blood, salvia etc.). The method comprises steps of a receiving, a biosensor strip into a recess of an adopter assembly, wherein the biosensor strip comprises a first end is arranged to receive the biological fluid sample to generate electric current; and a second end; connecting, the adopter assembly to a smartphone, through a connecting plug; determining, a magnitude of the generated electric current; analyzing, the magnitude to calculate the glucose concentration; and activating, a display screen to display the calculated glucose concentration.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045791 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ORDERING OF UNREAD MESSAGES IN AN INSTANT MESSAGING APPLICATION ACCORDING TO COUNTRY ATTRIBUTE

(51) International classification	:H04L0012580000, G06Q0030060000, H04M0001725000, H04W0052280000, H04N0021643000
(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 provides a system and method for instant messaging application. More specifically, the invention relates to a system and method for ordering of unread messages, according to a country attribute associated with each unread message. The country attribute can be selected from country name, country code and a user assigned priority level assigned to one or more countries.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045793 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD AND SYSTEM TO ORIENT A DISPLAY SCREEN DURING A SCREEN MIRROR MODE

(51) International classification :G06F0001160000, G06T0003600000, G06F0003048100, G06F0003010000, G09G0005380000
(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 :
The present invention provides a system and method to orient a display screen (e.g., TV), based on orientation of portable computing device (e.g., smartphone), during a screen mirror mode. The method comprises steps of determining, a current orientation of a screen display content of a portable computing device, which is arranged to stream data of a current screen content to the display screen; detecting, a current orientation of display screen; receiving, at a mounting apparatus, the determined orientation of the screen display content and the detected orientation of display screen; determining, a required change in position of the display screen to orient the display screen at a second orientation; and activating, a swivel control motor, to control rotation to a swivel joint in a manner that the swivel joint rotates a mounting plate mounted display screen to arranged at the second orientation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045794 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC WASTE SEGREGATION

(51) International classification	:B65F0001140000, B09B0003000000, B03B0009060000, B65F0001160000, B65F0001000000
(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 apparatus, system and method for segregating waste material into plurality of class (e.g., metallic, organic, etc.) based on sensor data and disposing into respective trash bin. The method comprises steps of : receiving, the waste material on a conveyor belt; blowing, high velocity air towards the conveyor belt to remove a lightweight components, determining one or more characteristics (e.g., moisture level, weight, magnetic property etc) of waste material, which is present on the conveyor belt; segregating waste into a metallic waste, an organic waste and recyclable waste; and transferring the segregating waste into respective bin.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045795 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATING FUSION QR CODE

(51) International classification	:G06K0019060000, G06Q0020320000, G06K0009200000, G01C0021360000, G06T0011600000
(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 generally to system and method for generating a fusion Quick Response (QR) code to authenticate multiple documents. The method comprises step of receiving a request to generate fusion QR code at server, from a portable computing device (e.g., smartphone), wherein the request comprises one or more images for plurality of QR code. The server analyzes the each QR code and generate one or more static portions and encoding region. Further, server combine the static portions and encoding region to generate fusion QR code, which can be communicated to user.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045796 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ARRANGING UNREAD MESSAGES ON TOP IN AN INSTANT MESSAGING APPLICATION

(51) International classification :H04L0012580000, G06Q0030060000, H04M0001725000, H04W0004120000, H04N0003140000
(86) International Application No :NA
Filing Date :NA
(87) 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 provides a system and method for instant messaging application. More specifically, the invention relates to a system and method for ordering of unread messages on top.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045798 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NUMBER OF COMMUNICATIONS BASED ORDERING OF UNREAD MESSAGES IN AN INSTANT MESSAGING APPLICATION

(51) International classification :H04L0012580000, G06Q0030060000, G06F0003048200, H04M0001725000, H04W0004120000
(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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Filing Date :NA

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(57) Abstract :
The present invention provides a system and method for instant messaging application. More specifically, the invention relates to a system and method for ordering of unread messages, according to number of communications associated with each unread message.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045799 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD TO DYNAMICALLY APPEND A SIGNATURE TO AN OUTGOING MESSAGE OF AN INSTANT MESSAGING PLATFORM

(51) International classification	:H04L0029060000, H04L0012580000, H04L0029080000, H04L0009320000, G06Q0010100000
(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 provides a system and method for dynamically appending a signature to an outgoing message of an instant messaging platform. The method comprises steps of: receiving, at a computing device: an authentication credential, an outgoing communication data, a recipient information; and a selected signature, from the one or more signature profiles; receiving, at server arrangement, the authentication credential, the outgoing communication data, the recipient information, and the selected signature, from the computing device; authenticating, the user based on comparison between the received authentication credential and the pre-stored credential information; appending, the received selected signature into the outgoing communication data, to prepare an outgoing message; and transmitting, the prepared outgoing message to a portable computing device of the recipient, through the network interface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045800 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ORDERING OF UNREAD MESSAGES IN AN INSTANT MESSAGING APPLICATION BASED ON SAVED/UNSAVED CONTACT IN ADDRESS BOOK

(51) International classification :H04L0012580000, H04M0001725000, H04W0004120000, G06F0003048100, G06Q0030060000
(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 :
The present invention provides a system and method for instant messaging application. More specifically, the invention relates to a system and method for ordering of unread messages, according to number of saved/unsaved contact in address book associated with each unread message.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202111045801 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NUMBER OF ATTACHMENTS BASED ORDERING OF UNREAD MESSAGES IN AN INSTANT MESSAGING APPLICATION

(51) International classification	:H04L0012580000, G06F0003048200, G06Q0030060000, H04M0001725000, G06Q0010100000
(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 provides a system and method for instant messaging application. More specifically, the invention relates to a system and method for ordering of unread messages, according to number of attachments associated with each unread message.

No. of Pages : 29 No. of Claims : 9

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

(21) Application No.202111047308 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A PROCESS FOR RECYCLING OF MULTI LAYERED PLASTICS AND CONVERTING THESE INTO GRANULES AND PRODUCTS FOR SOCIETAL APPLICATION

(51) International classification	:C08J0011060000, C08L0023060000, B29B0017000000, C04B0018200000, B29C0048345000
(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 granules and composite tiles from multilayered plastics which consist of different layers of plastics like LDPE, LLDPE, HDPE, PP, PPCP & PET and aluminum layer. Disposal of Multi-layered Waste is a major problem. It is non-biodegradable & it mainly consists of low-density polyethylene, polypropylene and PET. Burning of these waste multi layered plastic bags causes environmental pollution. More particularly the invention relates to designing of tiles by in-situ incorporating various filers in shredded multi layered plastics which is thoroughly cleaned using alkali solution comprising sodium hydroxide, sodium bicarbonate and sodium lauryl sulphate solution and making granules by utilizing compatibilizers. The granules so formed can be used for making various products like tiles, pallets etc. and these products possess proper mechanical strength. Even these products can have flame retardancy, water permeability and UV- protection from sunlight and antistatic response which are the novelty of the invention.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/10/2021
(21) Application No.202111047321 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PURIFICATION OF IMPURE WATER AND PRODUCTION OF GREEN ELECTRICITY USING SOLAR RADIATION

(51) International classification	:H02K0053000000, F03G0006060000, G06Q0010100000, A01G0022000000, C02F0001680000
(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 :
Providing safe, pure and low-cost drinking water to every citizen of India is a challenge for any government or private agencies. Further, majority of electricity generated in India is from thermal power plants. The thermal power plants have their own limitations like limited supply of the coal and produce harmful gases which pollute our atmosphere. There is an urgent need to develop a technique to purify impure water and production of green energy by using solar radiation. We have provided solution to both these problems. Our novel technique will solve both these problems i.e., it will provide safe, pure and almost free of cost drinking water along with production of green electricity from the steam generated from heating of impure water by using solar radiation. Outcome: We will provide pure, safe and low-cost drinking water for the weaker and deprived section of the society. The electricity (green energy) generated can be used directly during day time and in the night rechargeable battery will supply the electricity of daily needs. The water and electricity produced will not pollute the environment because electricity generated will be green energy (nonpolluting). Hence, problem of pure drinking water and green electricity will be solved by using solar radiation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/10/2021

(21) Application No.202111047728 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING GAS LEAKAGE IN AN AREA OF INTEREST

(51) International classification	:G08B0021160000, G09B0009000000, H04Q0011000000, G01M0003040000, B60Q0009000000
(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 relates to a system for detecting gas leakage in an area of interest. The system includes one or more sensing devices configured in the area of interest for sensing gas leakage and one or more indicating devices. The system is configured to receive, from the one or more sensing devices, a set of first signals pertaining to gas leakage in the area of interest. Compare, based on the set of first signals, a gas leakage value with e a pre-defined range. The pre-defined range comprises the gas value that are not harmful, and transmit, based on the comparison, a set of second signals to the one or more indicating devices when the gas leakage value is more than the pre-defined value.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/10/2021

(21) Application No.202111049256 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : GAUCRETE: A COMPOSITE OF COW DUNG, CLAY AND HYDRATED LIME

(51) International classification	:C03C0014000000, B65F0001140000, C04B0028020000, B29K0105160000, C08L0097020000
(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 discloses a composition and process for producing eco-friendly construction material using cow dung. The process incorporates a collection of fresh cow dung, which is used to prepare composite by mixing it with kaolinite clay and lime hydrate in a specified ratio. The prepared mixture is poured into moulds of the desired shape and left to dry for 5 to 7 days. The final result is a composite with 50% of the mass reduced due to lost moisture. The composite produced has good strength with long life, which makes the material perfect for construction applications. The invention has been named Gaucrete. The processes incorporated in manufacturing Gaucrete are associated with both waste management as well as eco-friendly construction material. The invention also helps promote animal protection by utilizing the waste produced by cattle.

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2021

(21) Application No.202111049752 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELBP BASED FACE AND AGE DETECTION

(51) International classification :G06K0009000000, G06K0009620000, G06K0009460000, G06K0009400000, B44C0005000000
(86) International Application No :NA
Filing Date :NA
(87) 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 eLBP Based Face and Age Detection is an original way to deal with face acknowledgment which considers both shape and surface data to address face pictures. The face region is first partitioned into little areas from which Local Binary Pattern (LBP) histograms are separated and linked into a solitary, spatially improved element histogram productively addressing the face picture. The acknowledgment is performed utilizing a closest neighbor classifier in the registered component space with Chi square as a divergence measure. Broad analyses unmistakably show the predominance of the proposed plot over completely thought about strategies (PCA, Bayesian Intra/additional individual Classifier and Elastic Bunch Graph Matching) on FERET tests which incorporate testing the power of the technique against various looks, lighting and maturing of the subjects. Facial part finding and extraction show the greatest amount of crucial job in face and age acknowledgment. In this exploration work another calculation is proposed for Face and Age Recognition (FAR) by utilizing Discrete Wavelet Transform (DWT), Radial Basis Function Support Vector Machine (RBF-SVM) classifier, and Rotational Local Binary Pattern (RLBP). RLBP is used for the choice and extraction of elements from the face picture. In this calculation, extricate the face part like Nose, Mouth, Left and Right eye. In the preprocessing stage middle channel is utilized to eliminate commotions from the face picture. By utilizing this, there is an improvement in the component extraction strategy. In design acknowledgment, a fundamental task is discovering an image from the image parts.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2021

(21) Application No.202111049753 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IOT-BASED TEMPERATURE MEASUREMENT PLATFORM FOR A REAL-TIME ENVIRONMENT USING LM35.

(51) International classification :G01K0001020000, H04L0029080000, G01K0001140000, G01K0011000000, G01K0001080000
(86) International Application No :NA
Filing 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 :
Our Invention IoT-based Temperature Measurement Platform for a Real-time Environment using LM35. is a The number given to an item to mean its glow is called its tem-perature. Individuals attempted to evaluate and quantify contrasts in warmth, which prompted the creation of the temperature idea. At the point when a hot thing crashes into a chilly thing, heat is moved until the two things are a similar temperature. The two things are viewed as in warm harmony once the hotness move is com-plete. The amount of warmth that is something very similar for at least two things in warm balance is in this way characterized as temperature. The consequences of a rooms or environment related cycle is seen. Temperature estimation in the present modern climate includes a wide assortment of necessities and applications. To meet this wide cluster of necessities the cycle controls industry has fostered an enormous number of sensors and gadgets to deal with this interest. Temperature is an exceptionally basic and generally estimated variable for most mechanical specialists. To clinical expert's temperature is a central amount that should be estimated to achieve solid life in the realm of medication yet to the universe of designing temperature is either preserved with the end goal of powerful work or delivery not to harm the work. The need to gauge and evaluate the temperature of something began around 150 A.D. at the point not really set in stone the 'composition' of somebody dependent on four discernible amounts. Computerized thermometer unites any semblance of microcontroller to be interfaced with Lm35 temperature sensor all together working with an installed C programming language. In headway in innovation, computerized thermometer can be added to home mechanization uses, IOT administration for clinical records, modern positions and some more.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2021

(21) Application No.202111049754 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DESIGN WEARABLE SENSORS TO PROVIDE HEALTHCARE NOTIFICATION USING IOT BASED TECHNOLOGY

(51) International classification	:A61B0005000000, H04L0029060000, H04L0029080000, G16H0040670000, G06Q0050220000
(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 Design Wearable Sensors to Provide Healthcare Notification Using IoT Based Technology is a Observing and overseeing likely contaminated patients of COVID-19 is as yet really difficult for the most recent innovations. In this invention IoT based wearable checking gadget is intended to quantify different essential signs identified with COVID-19. Additionally, the framework consequently alarms the concerned clinical specialists about any infringement of isolation for conceivably contaminated patients by checking their ongoing GPS information. The wearable sensor set on the body is associated with edge hub in IoT cloud where the information is handled and examined to characterize the condition of ailment. The proposed framework is executed with three layered functionalities as wearable IoT sensor layer, cloud layer with Application Peripheral Interface (API) and Android web layer for cell phones. Each layer has individual usefulness, first the information is estimated from IoT sensor layer to characterize the wellbeing manifestations. The following layer is utilized to store the data in the cloud information base for preventive measures, cautions, and prompt activities. The Android versatile application layer is liable for giving notices and cautions to the conceivably tainted patient family respondents. The incorporated framework has the two API and portable application synchronized with one another for anticipating and disturbing the circumstance. The plan fills in as a fundamental stage that characterizes the deliberate readings of COVID-19 manifestations for checking, the executives, and examination. Moreover, the work scatters how computerized far off stage as wearable gadget can be utilized as a checking gadget to follow the wellbeing and recuperation of a COVID-19 patient.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :30/10/2021

(21) Application No.202111049804 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DUAL-PUBLISHED FOOTWEAR

(51) International classification :A43B0003120000, A43B0003100000, A43B0003240000, A43B0003000000, A43B0003160000
(86) International Application No :NA
Filing Date :NA
(87) 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 provides a dual-purpose footwear 100 which is in form of a shoe and accommodating a sandal 110 inside a main sole 106 of the shoe. The main sole 106 of the shoe 100 includes a cavity 108 to store the sandal 110 when the sandal 110 is not being used by a user, and the sandal locks inside the cavity to prevent falling off the sandal 110 from the shoe. When user requires the sandal, user apply force on the main sole through heel of foot, and the sandal 110 unlocks from the cavity and popped out automatically. When the sandal is removed from the shoe 100, the sandal 110 is worn independently.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202111050099 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ONLINE TECHNICAL LEARNING AND ADVANCED TRAINING MANAGEMENT SYSTEM

(51) International classification :G06Q0050200000, G06N0020000000, G09B0019000000, G09B0007020000, G09B0005020000
(86) International Application No :NA
Filing Date :NA
(87) 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 development Online Technical Learning and Advanced Training Management System is an Educational organization (Engineering Institute, schools, universities, and colleges, Training Institute, and so forth) in India are at present dependent on conventional techniques for realizing, that is, they follow the customary set up of vis-à-vis addresses in a study hall. Albeit numerous scholastic units have additionally begun mixed learning, still a ton of them are left with old strategies. The unexpected flare-up of a dangerous infection called Covid-19 brought about by a Corona Virus (SARS-CoV-2) shook the whole world. The World Health Organization proclaimed it as a pandemic. A great deal of issues is joined to online training yet we can't overlook the advantages of it in the midst of such emergency. We can generally have answers for fix these hardships. Specialized hardships can be addressed through prerecording video addresses, testing the substance, and continually keeping Plan B prepared with the goal that the educating learning process can't be hampered. Online courses ought to be made dynamic, intriguing, and intelligent. Instructors should draw timetables and updates for understudies to make them ready and mindful. Endeavors ought to be made to adapt the learning system to the most ideal degree.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202111050242 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DEVELOPING CD4+ T-CELL EPITOPE-BASED PEPTIDE VACCINE AGAINST DENGUE VIRUS

(51) International classification :C07K0014005000, A61K0039000000, G16B0015000000, C07K0001000000, G16B0020000000
(86) International Application No :NA
Filing Date :NA
(87) 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 computer implemented method (800) for developing a CD4+ T-cell epitope-based peptide vaccine against a Dengue Virus (DENV), wherein the method (800) comprising steps of: retrieving protein sequences of genome polyprotein of Dengue Virus (DENV) serotypes; determining immunogenic parameters of the retrieved protein sequences; predicting CD4+ T-cell epitopes of the retrieved protein sequences; selecting one of, the predicted CD4+ T-cell epitopes comprising a first peptide sequence, a second peptide sequence, a third peptide sequence, a fourth peptide sequence, a fifth peptide sequence, a sixth peptide sequence, a seventh peptide sequence and an eight peptide sequence; modeling a three-dimensional structure of the selected CD4+ T-cell epitopes; docking the modeled three-dimensional structure of the selected CD4+ T-cell epitopes with Human Leukocyte Antigen (HLA) alleles; and developing the CD4+ T-cell epitope-based peptide vaccine comprising a final peptide sequence using the docked three-dimensional structure 400 of the selected CD4+ T-cell epitopes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050805 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADAPTABLE FOOD GRIPPING DEVICE

(51) International classification :A61B0005000000, A61B0005020500, A61B0005024000, A61B0005021000, A61B0005145500
(86) International Application No :NA
Filing Date :NA
(87) 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 an adaptable food gripping device, comprising a wearable body 1 installed with an artificial intelligence 5 enabled image capturing module integrated with a microcontroller for decoding physical state of foods, a pair of grippers 6 made up of shape shifting fibers to alter shape of grippers 6 in accordance to detected physical state of food, a biometric scanner 7 integrated with a vital sensor for intaking biometric data and measuring vitals of user, wherein the microcontroller compares the intaken biometric data with a pre-stored data based on which the user is provided access to the body, a tellspec sensor 8 for determining quality and nutritional value of foods, wherein the determined nutritional value are cross-examined with the measured vitals and in case the determined nutritional value is found to be inappropriate for the user, then the user is alerted.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050806 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AESTHETICALLY ADJUSTABLE FLOWERPOT HOLDING DEVICE

(51) International classification :A01G0009020000, G10L0015220000, G06F0003010000, G10L0015190000, A01G0009080000
(86) International Application No :NA
Filing Date :NA
(87) 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 an aesthetically adjustable flowerpot holding device comprising a frame 1 to load the multiple numbers of holders 2 containing flower pots, a pair of imaging units attached to the frame 1 wherein the first imaging unit 3 observe user's gesture/posture, another imaging unit 4 mounted on the frame to capture the image of the plants contain in the flower pot(s), a speech recognition module 5 connected to the frame receive voice input from the user to change the color of electromagnetic coating accumulated on the flower pot(s), a server data base storing all required properties of the plants, a voice recognition module 6 to decode users mood, wherein a lead screw assembly having lead screw rods 7 and nuts 8 is coupled with the frame 1 to facilitate the rearrangement of the holder(s).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050807 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WEARABLE UNDERWATER PROTECTIVE DEVICE

(51) International classification :G06F0003010000, G08B0021020000, A01M0029160000, G06F0003048200, A41D0019000000
(86) International Application No :NA
Filing 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 :
A wearable underwater protective device comprising, a wearable body 1 stitched with gloves 2 worn by a user, an ultrasonic imaging unit 3 for detecting presence of aquatic animals based on danger levels along with a first, second or third threshold distance, multiple sensors 4, 5 for detecting underwater pressure and help in providing gesture commands as per requirements of user, a telescopic gripper 6 arranged within gloves 2 and is activated as per output provided imaging unit 3 or gesture commands of user to detangle marine plants hindering path of user, an acoustic module 7 for generating acoustic signals to repel animal approaching user within first threshold distance, multiple tools 8(a, b) configured in bodysuit 1 to help in driving away animal present within second threshold distance, a safety module 9(a, b) to maintain diving level and regulate movement of user when animal reaches third threshold distance.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050808 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : GOOSEBERRY SYRUP PREPARATION DEVICE

(51) International classification :A23L0021250000, B67D0001000000, A47J0044000000, A61P0011140000, A23B0007080000
(86) International Application No :NA
Filing Date :NA
(87) 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 gooseberry syrup preparation device comprising, a housing 1 having a chamber 2 for storing gooseberries, an image capturing module 3 to distinguish edible gooseberries from inedible ones, a conveyer belt 4 to carry gooseberries, a metallic tube 5 with installed iris lid to receive a gooseberry and make pores via internally housed multiple needles 6, an electronic tongue 8 to taste bitterness and in case gooseberry is found to be excessively bitter, then valves of compartments actuates for dispensing lime and water respectively inside container 7 to maintain bitterness, a vessel 9 for collecting gooseberry, a weight sensor 10 senses weight of gooseberry and according to sensed weight, a pair of storage receptacles dispenses sugar solution and honey inside vessel 9, a motorized mixer 11 for mixing treated gooseberry with dispensed sugar solution and honey to prepare syrup of gooseberry in an efficient manner.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050809 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTIPURPOSE BARRICADING SYSTEM

(51) International classification :E04F0011180000, G06F0003010000, G09F0027000000, G06K0009000000, G08B0021020000
(86) International Application No :NA
Filing Date :NA
(87) 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 multipurpose barricading system comprising a multiple number of railing 1 fixed with the help of telescopic rods 2 such that the height of railing may be adjusted according to user height, an image capturing unit 3 to detect the user with visual impairment in public among crowd, an ultrasonic sensor 4 to acknowledge user in the proximity of the railing and adjusting the height of the telescopic rods 2, multiple number of pneumatic actuators 5 which retract according to the view of surroundings, a motion sensor 6 is placed on each of the railings 1 to detect the motion of head of the user in order to determine where the user is looking, , a speaker unit 7 is placed on the railing to describe the view along with a voice recognition module 8 to interact with the user and adjust the railing height and pneumatic actuators 5 accordingly.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050811 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : VEHICLE HEADLAMP CLEANING SYSTEM

(51) International classification	:G01S0007521000, G01S0015040000, B60R0019480000, B60S0001600000, G01S0015931000
(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 vehicle headlamp cleaning system comprising, a pair of lux sensors 1 installed on a vehicle's bumper 2 for detecting the level of luminosity produced by headlamps 3, a microcontroller generates a command upon detected level of luminosity lies below pre-determined level, a cleaning unit 4 installed in proximity to headlamps 3 extends based on generated command for dispensing cleaning solution to remove accumulated dirt/dust, an ultrasonic sensor 5 attached on bumper 2 for determining approaching/presence of any other vehicle(s) within a threshold range, in case ultrasonic sensor 5 does not determine presence of other vehicle(s) within range, then microcontroller maintains emission of enhanced illumination from headlamps 3 and in case ultrasonic sensor 5 detects presence of other vehicle within range, then microcontroller brings down luminosity level of lamps up to an extent that aids in easy passing/crossing by of vehicle(s).

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050812 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTERACTIVE TOY STORAGE AND DISPENSING DEVICE

(51) International classification :G06K0009000000, A63H0003280000, A63H0003000000, A63H0033000000, G07F0011000000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
An interactive toy storage and dispensing device includes, a hollow body 1 having a first 2 and second 3 arms and integrated with an interactive display screen 4 that provides list of toys for the user, multiple compartments 13 storing toys, a primary camera 5 fitted within the body 1 to determine position of each of the toys in respective compartments 13, a primary suction duct placed having first end 10 of the duct is positioned within the body 1 via a lead screw unit 15 and second end 6 of the duct is placed over one hand, a secondary camera 12 determine facial expression/mood of the user, a set of digital eyes 7 embedded within the body 1, based upon type of dispensed toy and facial expression of the user, the processing unit accordingly actuates the eyes 7 to represent expressive eyes to entertain the user.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050813 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TIRE MANAGEMENT AND NOISE DAMPING DEVICE

(51) International classification :A61B0090000000, F16C0019520000, B60C0001000000, B32B0027180000, H02H0007080000
(86) International Application No :NA
Filing Date :NA
(87) 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 prevention of tire burst by sensing the temperature of outer layer of the tire 1 using multiple temperature sensors 3 attached underneath of the vehicle arches 2 which are linked with microcontroller which compares this temperature with a threshold value and if the threshold value is reached the microcontroller actuates the solenoid unit 4 and electric valve 9 making the primary sponge 7 to establish contact with the outer periphery of tire 1 and simultaneously make the sponge wet by supplying water from reservoir 11 to the sponge through micro pores 8. When the tire 1 is broader than the primary sponge 7, secondary sponges 12 are deployed using an oscillating rod 13 which is actuated by motor 14. The wet primary sponge 7 and secondary sponges 12 completely damps the noise generated between the tire and road.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050814 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ASSISTIVE SYSTEM FOR PLAYING TILE BASED GAMES

(51) International classification :A63F0013600000, A63F0011000000, G06F0003048200, A63F0013214500, G07F0017320000
(86) International Application No :NA
Filing 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 :
An assistive system for playing tile based games, comprising a frame 1 installed with a platform 2 for placing of multiple tiles, a touch interactive display panel 3 utilized for setting up complexity level of the game along with feeding number of players, a three axis lead screw arrangement 5 having one of the axis that is attached with a gripper 6 to arrange/rearrange tiles 7 in different patterns based on set complexity level, a wearable body 9 integrated with a receiver 10 for interacting with transmitters 8 configured with tiles 7 when the players touch the desired tiles, a microcontroller for processing the interaction and based on the processed data, the gripper 6 is directed to grip and separate touched tiles from rest of placed tiles 7, wherein the microcontroller also decodes similarity of tiles selected by the players, based on which the players are allocated with score points.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050815 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC CLOTH MAINTENANCE DEVICE

(51) International classification :B33Y0010000000, D06C0007000000, B32B0037000000, B29C0065500000, D06F0035000000
(86) International Application No :NA
Filing 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 :
An automatic cloth maintenance device includes, a chamber 1 wherein a first set of rollers 2 positioned at first portion of the chamber 1 to draw clothes, multiple primary sensors embedded on the rollers 2 to measure presence of moisture and sends derived data to a microcontroller, a first base plate 3 installed in continuation with the rollers 2 and fabricated with multiple nozzles for dispensing hot air and a heating unit embedded underneath the plate 3 to dry up the cloth, a secondary sensor determine type of cloth, multiple dispensing units internally connected with a reservoir, that dispenses wrinkle free liquid over the cloth, a second set of rollers 6 placed at second position of the chamber 1 that rotate in clockwise and anticlockwise direction in synchronization to each other to draw the cloth and fold in uniform manner and place over a second base plate 7.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050816 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SECURED ROTATORY GLIDING SWING

(51) International classification :A61B0005000000, G16H0040670000, A63B0069000000, A63B0071000000, A63G0009000000
(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 :
A secured rotatory gliding swing comprises a body attached to platform 1 installed in playground and having motorized central pole 2 with handles 3 via spring assembly 4 to glide around pole 2, an AI imaging unit 5 installed on pole, to detect user's age, and is coupled with first set of sensors 6 integrated within the pole, to detect speed of motor & angle of handles ,second set of sensors 7 integrated within the handles 3, to detects vital parameters and gripping pressure applied by user while holding handles, multiple telescopic rods 8 arranged on platform 1 and equipped with dual-layer fabric 9 to form barrier around pole 2, an inflation unit associated with telescopic rods 8 to fill air between layers of fabric 9 amalgamated along the rods 8 for providing safety means to user to prevent injury.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050817 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADAPTIVE CRUISE CONTROL SYSTEM FOR TWO WHEELERS

(51) International classification	:B60W0030160000, B60W0030140000, G08G0001096700, B60K0031000000, B65G0069000000
(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 adaptive cruise control system for two wheelers comprising, a positioning unit determines current location of vehicle 1, condition of approaching road, an image capturing module captures images of approaching road to determine traffic conditions and obstructions encountered by vehicle 1, a sensing module draws dynamic information of vehicle 1 including speed, braking, selected gear, a clamp 4 incorporated with an iris lid 5 positioned in manner that, once in deployed state, iris lid 5 grips and locks throttle bar 2 of vehicle 1 to automatically maintain speed of vehicle 1 without user's input, a motor controller to deactivate operation of iris lid 5 to free up throttle bar 2, upon detecting brakes applied and presence of obstruction in front of vehicle 1, a touch interactive screen to allow user to enter a speed range within which iris lid 5 gets activated, motor controller deploys iris lid 5.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050818 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTILEVEL GYMNASTIC DEVICE

(51) International classification :A61B0005000000, A61B0005110000, A63B0071060000, A63B0022020000, H04N0005232000
(86) International Application No :NA
Filing Date :NA
(87) 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 multilevel gymnastic device comprises a flat base platform 1, associated with frame having two metallic rings 2, arranged in parallel orientation to each other via multiple horizontal bars 3 to align user's footstep, an AI (Artificial Intelligence) based imaging unit 4 incorporated in the frame for detecting body posture of user and is coupled with first sensor 5 integrated on one of metallic ring used to detect vital parameters of the user, a second sensor 6 installed in each horizontal bars 3, used for sensing the gripping pressure, multiple electromagnetic modules 7 incorporated in both the rings 2 and platform 1 having connection with microcontroller, for controlling the speed of the frame over platform, a display unit 8 installed on the frame, and is operated by the microcontroller, for displaying an image of corrected body posture and instructions regarding gripping pressure.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050819 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATED JUICE EXTRACTION DEVICE

(51) International classification :B29C0045400000, A47J0019020000, G01N0003400000, B65D0085340000, B02C0023000000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
An automated juice extraction device comprises a chamber 1 having a circular plate 2, to provide platform for fruit placement, a retractable covering 3 installed surrounding circular plate 2 to eliminate unintentional movement of fruit, a pressure sensor 4 embedded in plate 2, for sensing placement of fruit, a primary sensing module 5 integrated in chamber 1 to monitor odour and internal fabrication of fruit , a touch interactive screen 6 fitted over chamber 1, to provide notification of rotten fruits, a Peltier unit 7 incorporated for heating fruit, a telescopic bit 8 mounted over plate having a secondary sensing module 9 fabricated to determine hardness of fruit, multiple rollers 10 incorporated on inner periphery of covering 3 to apply pressure on fruit to loosen the outer layer, a mist sprayer 11 attached at proximal end of bit 8 connected with pores for dispensing juice from nozzles.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050820 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SELF ADAPTABLE LIQUID SPRAYING DEVICE

(51) International classification :B05B0009040000, B05B0017060000, F17C0009000000, D06B0023000000, G05D0007060000
(86) International Application No :NA
Filing 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 :
A self adaptable liquid spraying device comprising, a housing 1 having a first and second portion 2, 3, a flexible lid 4 allow housing 1 to mount over a liquid container 12, a primary ultrasonic sensor 5 measures height of container 12 along with level of liquid filled inside container 12, a telescopic hollow pipe 6 actuated based upon height of level of liquid filled inside container 12, a liquid dispenser draws liquid via pipe 6 and discharge in the surroundings, a display screen 8 provides option to choose multiple flow rates and alter dispenser accordingly, a flow sensor measures flow rate of liquid and upon detecting pressure below a threshold value, further extend pipe 6 to maintain pressure, a pair of telescopic stands 9 actuated place housing 1 firmly over ground to spray liquid, an audio unit 10 suggest ideal body posture to handle housing 1 to eliminate tiredness.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050821 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC FOG REMOVING SYSTEM FOR VEHICLES

(51) International classification :G07C0005080000, B64D0047080000, A61B0005026000, E01H0013000000, B60Q0001200000
(86) International Application No :NA
Filing 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 :
An automatic fog removing system for vehicles includes, a first artificial intelligence based camera 1 installed within a vehicle 3 to authenticate and track eye position of the user and store within a microcontroller, a computing unit connected with the microcontroller to enter information about driver, a fog detection module 4 detects presence of fog ahead of the vehicle 3, an aerial unit 5, multiple propellers 6, sensors, wherein the aerial unit comprises a processing unit connects with the microcontroller to fetch signal received from the fog detection module 4, a fog removing unit 7 activate by the processing unit upon receiving signal from the microcontroller and actuates the unit 5 to fly towards the fog to remove fog based upon eyesight and driving skill of the user, and a second artificial intelligence based camera 8 mounted over the unit 5 that aids in providing pathway to the vehicle 3.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050822 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WICKET BALL CONTACT DETECTION DEVICE

(51) International classification :F41H0005007000, A63B0063000000, B60R0021013600, H01F0007200000, F03D0009340000
(86) International Application No :NA
Filing 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 :
A wicket ball contact detection device includes, a stump divided into a first portion 1 grounded in a surface and a second portion 2 that remains above the surface, the first portion 1 mapped with a permanent magnet 8, a primary 3 and secondary electromagnetic coils 4 first layered over the second portion 2 and upon receiving electricity the primary coil 3 act as an opposing pole and the secondary coil 4 act as a same pole to attract and repel the magnet 8, impact sensor 5 to detect impact on the stump, and a microcontroller interconnected with the sensor 5 and coils through a relay, the microcontroller upon receiving signal from the sensor 5 regulates the relay to break the connection of the primary coil 3 and changes the electricity flow towards the secondary coil 4 to disengage and repel the second portion 2 from the first portion 1.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050823 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANTI-SUICIDE CEILING DEVICE

(51) International classification :F16M0013020000, F15B0015260000, F02K0001760000, F21V0021100000, F16M0011100000
(86) International Application No :NA
Filing Date :NA
(87) 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 an anti-suicide ceiling device includes, a telescopic rod 1 connected with a ceiling via a hook at first end 9 and second end 10 is connected with a fan 2, a threaded hook 3 passing through an opening formed over the rod 1 to lock the rod in locked/retracted position, a motorized pinion gear 4 is meshed along with hook 3 that rotates the hook 3 in clockwise or anticlockwise direction to lock or unlock the rod 1, a load cell 5 linked with a microcontroller for detecting an applied load over the rod 1 above a threshold value, the microcontroller actuate the pinion that rotates the hook 3 to remove the hook and allow extension of the rod 1 thereby limiting a person from hanging in support of the fan 2.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050824 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC VEHICLE BRAKE REPLACEMENT SYSTEM

(51) International classification :B25B0021000000, B66F0003440000, B25B0023000000, G07C0005080000, B66F0005020000
(86) International Application No :NA
Filing Date :NA
(87) 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 an automatic vehicle brake replacement system, comprising a moveable body 1 arranged with multiple motorized rollers 2, wherein the rollers 2 are directed by the microcontroller to translates the body 1 up to wheels of the vehicle, an electric jack 3 integrated with an artificial intelligence based image capturing module 4 to determine ground clearance of vehicle, an electric wrench 5 attached on the body 1 to unscrew lug nuts configured with wheels, a pair of motorized grippers 6 installed on the body 1 to grip and remove the detached/loosened wheels, a motorized caliper electric wrench 7 attached to the body 1 to unscrew a nut which locks the caliper, a motorized screw driver 8 attached on the body 1 to remove the pop-out brakes, a motorized grabber 10 in synchronization with the screw driver 8 actuates to place new set of brakes.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050825 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC JUTE RETTING DEVICE

(51) International classification :D01C0001040000, D01C0001020000, G01N0027040000, A01M0031000000, G07C0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to an automatic jute retting device comprising of a frame having main chamber 1 storing harvested jute stems, mapped with a display panel 14 receiving inputs by user regarding time span of retting, multiple moisture sensors 2 fitted inside main chamber sensing moisture level of jute stems that further interlinked with a microcontroller directs a blower 5 inside waiving off cold air removing excess moisture, a container 8 interconnected with the main chamber through two conduits 6, 7 forming a loop retains water along with a Peltier unit 13 around its base, a sub chamber 11 with multiple vessels stores variety of chemicals connected to container 8 via pipes and dispensing them in accordance with command inputted and generated by the microcontroller regarding time-span of retting, whole retting process is monitored by an image capturing module 4 also averting if any discrepancy is detected in retting.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050830 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED TOOLS STORAGE AND RECOMMENDATION DEVICE

(51) International classification :G10L0015220000, B23Q0003155000, G10L0015260000, G06K0009000000, G06F0016330000
(86) International Application No :NA
Filing Date :NA
(87) 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)Anuj Kumar
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(57) Abstract :
The present invention relates to an artificial intelligence based tools storage and recommendation device, comprising a frame 1 incorporated with a slidable tray 2 having multiple slots of different size and shape for storing various types of tools, a voice recognition module 3 integrated with a microcontroller for receiving voice inputs from a user regarding a suitable tool placed, wherein the microcontroller processes the inputs and actuates the tray to move out of the frame 1 to provide access, a LED (Light Emitting Diode) 4 light for blinking up a respective LED light for helping the user in finding out a desired tool, a primary artificial intelligence enabled image capturing module 5 that captures and processes multiple images of the operations to recommend a desired tool on a display unit 6 in case the user is clueless in finding the suitable tool.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050831 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PROTECTIVE CASING DEVICE

(51) International classification :G06K0009000000, G06F0021320000, A61B0005000000, H04B0001388800, G06K0019073000
(86) International Application No :NA
Filing Date :NA
(87) 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 protective casing device comprising, a protective case 1 associated with the device that installed over a gadget to protect from damage, a camera 2 affixed with device that captures images of a user,a fingerprint sensor 3 fabricated over the case 1 that records fingerprint of the user,a pair of slider 4 mounted over each sides of case 1 and installed with a motorized rollers 5 upon authentication of user, the rollers 5 starts sliding over the slider 4 to reveal a gadget,a sensors integrated within the case 1 that measures blood flow rate of user and updates with a processing unit that upon detecting inactive condition from data actuates a processing unit that deactivates the camera 2 and the fingerprint sensor 3, a number pad 6 affixed on bottom of the device that helps to unlock the casing device when the fingerprint verification fails.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050832 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART BEVERAGE PREPARATION DEVICE

(51) International classification	:A23L0002380000, A47J0043046000, B01F0015040000, C12M0001340000, A47J0031400000
(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 smart beverage preparation device, including a container 2 for mixing the ingredients, a computing unit wirelessly connected to the container 2 for giving commands to microcontroller, heating coils 3 installed in the container 2 for heating beverage, a sensing module 4 attached inside the container 2 for sensing the odour and colour of beverage, a break beam sensor 5 integrated at walls of container 2 to determine the level of beverage, a motorised lid 6 installed on the container 2 to avoid spillage and a strainer 7 installed at container 2 base for filtering of beverage by using iris lids 8 integrated within the strainer 7.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050833 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART BEVERAGE PREPARATION DEVICE

(51) International classification :H04L0029060000, G06F0021320000, G06K0009000000, B26B0021400000, G06F0021400000
(86) International Application No :NA
Filing Date :NA
(87) 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, Shobhit University, Gangoh, Distt. Saharanpur - 247341, UP, India. ---------- ----------

(57) Abstract :
A secured storage device, comprising a retractable cover 1 attached on hand held pointing unit 3 to provide access to chamber 2 for stockpiling miniatures, ultrasonic fill level sensor integrated within chamber's 2 inner walls for calculating space occupied within chamber 2, an electro-chromic entity fabricated over chamber's 2 cover 1 and paired with the level sensor for providing categorical information to user on the basis of occupied space by the miniature's, security module assembled within pointing unit 3 for providing security to stored items and follows set of authentication levels which includes a first level of authentication for establishing authenticity of the user via sensing pre-defined gesture, second level of authentication works by verifying user's image via an artificial intelligence based imaging unit 4 and third level of authentication scans and authenticates fingerprint of user via fingerprint sensor popping out for providing complete access to chamber 2.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050834 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PICKLE PREPARATION DEVICE

(51) International classification :B60R0021015000, G06Q0010080000, B01F0013100000, G07G0001000000, G01G0019414000
(86) International Application No :NA
Filing Date :NA
(87) 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 pickle preparation device, comprising of a body having multiple compartments 1, 2, 3 storing oil, spices and dry pieces of raw materials which are utilized for preparation of pickle, wherein the items are transported to a main chamber 12 connected through conduits with its opening affixed with electronic valves 11, a touch responsive display unit 16 for inputting details regarding type and quantity of pickle that is to be prepared along with time period, a weight sensors 10, 14 for determining weight of left-over items present in the compartments only after transportation of considerable amount of the items to the main chamber 12 which itself is crafted with a weight sensor 13, a motorized mixer 8 fabricated at the base of main chamber 12 carry through mixing and preparation of pickle and the compartment 1 storing oil engraved with a heating unit 4 fastening the preparation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050835 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC HAIR STYLING DEVICE

(51) International classification	:A61Q0005060000, A45D0001040000, A46B0013020000, A45D0008000000, A61K0008810000
(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 an automatic hair styling device, comprising a neckband shaped body 1 worn on a user's neck such that hair is positioned to fall over the body, a hair detangling unit 2 coupled with robotic arm 3 attached with body and having multiple motorized pins that rotate for releasing knots and tangles from user's hair, a motorized combing unit 4 attached to the body for smoothening of hair, a flexible styling tool 5 mounted on plurality of telescopic rods 6 attached via movable joints formed by two telescopic bars 7 arranged on the basis of Thales theorem, where the rods and bar move simultaneously to cause movement/ folding of the tool in order to create a hairstyle and plurality of nozzles 11 configured within the tool for dispensing hair spray in order to groom and impart finishing hold onto the hairstyle.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050836 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PORTABLE MEDICAL ASSISTANCE SYSTEM

(51) International classification :A61B0005000000, A61B0005145500, A61B0005021000, A61M0016060000, A61B0005080000
(86) International Application No :NA
Filing Date :NA
(87) 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 medical assistance system, comprising a body having platform 1 attached to it through adjustable arm to hold user's face in order to actuate the system, an imaging unit 2 to recognize facial position and detect breathing rate, a sphygmomanometer 3 with inflatable rubber cuff to measure blood pressure, a wearable unit configured with oximeter 4 and heart sensor 5 combine result of both measure oxygen level in blood, a microcontroller interconnected with the multiple sensors to analyze and process output of the sensors, an oxygen mask 6 attached to the body 1 to facilitate oxygen, an altimeter 7 in association with an air pressure sensor 8 connected with asthma inhaler 9 to tackle breathing issues on several heights where air pressure is less than the required.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050837 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CUSTOMIZED COOKIE PREPARATION DEVICE

(51) International classification :A23L0033105000, A61B0005000000, B01F0013100000, A63B0047000000, A21C0011000000
(86) International Application No :NA
Filing Date :NA
(87) 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 customized cookie preparation device, wherein an interactive display unit 3 provides input regarding quantity of raw material and nutritional additives based on user's health parameters via plurality of dispensing units 4 descended into a bowl 24 incorporated in first 1 and second chamber 18, a motorized whisker 7 making dough coupled with two robotic arms 26 forming small dough balls within second chamber 18, a weather module 8 attached outside is coupled with a temperature sensor 9 monitoring atmospheric conditions and internal temperature of the second chamber 18, also three containers are fabricated with plurality of nozzles 6 dispensing citric acid, baking soda or water preventing from contamination, into molds 20 placed over a concave baseplate 16 embedded upon heating element 13 and once ready given via robotic arm 25 affixed with gripper 22 or wrapped by provided roller based dispenser 23.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050838 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HEEL CARE DEVICE

(51) International classification :A61B0005000000, A61B0017000000, A61B0017540000, A61Q0019000000, A47K0007020000
(86) International Application No :NA
Filing Date :NA
(87) 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 heel care device, includes a frame 1 employed with a camera module 2, configured to determine heel cracks of a user, a frame 1 is fitted with a vamp 6 to cover toes of the user to maintain grip, a pneumatic arrangement 3 installed in the frame 1 to uplift heel for widening the cracks, multiple sensors fitted on the platform to determine pain intensity, hardness of skin, moisture level of skin, and dead skin level over a heel portion, , a motorized scrubber 7 crafted with pores that act as outlet for nozzles 5 arranged within the scrubber 7 and connected with multiple chambers 4 to dispense lactic acid on the heels for removing dead skin along with smoothening of heels.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050839 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : OBSTACLE REMOVING FOOTWEAR DEVICE

(51) International classification :A61H0003060000, A61H0023020000, B62B0005020000, F26B0005020000, E05F0015430000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
An obstacle removing footwear device comprising a wearable body segregated with two sections 1, 2, wherein first section 1 provides cavity to accommodate feet of user along with an imaging unit 3 capturing approaching obstructions in addition with an ultrasonic sensor 4 dynamically measuring distance between user and obstructions; a plurality of motorized telescopic wipers 6 housed within second section 2 attached with motorised lids on actuating moves in oscillating motion to swipe out stated obstacles and a plurality of stretchable pads 7 fabricated at each sides of body supported by plurality of telescopic arms detects terrain condition and gets actuated accordingly in combination with at least two sets of protruding studs 8 fabricated underneath the second section 2 that enhances grip levels of user over potholes and inclined terrain respectively by enabling studs 8 and assembled with a high frequency vibration module knocking off obstruction with produced vibrations.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050840 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC CLAY UTENSIL MANUFACTURING DEVICE

(51) International classification :B25J0009160000, B28B0017000000, G09F0019000000, B65G0017400000, 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
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(57) Abstract :
The present invention relates the automatic clay utensil manufacturing device, comprising a body 1 having a first and second portion, wherein the first portion is installed with conveyor belt 2, in order to transporting irregular shaped of clay a touch controller display 3 mounted over the body 1, to select design and an AI camera module 4 installed to monitor the process and robotic arm 6 receives the clay via belt 2 and places in between the plates 7, and a rollers 8, placed in continuation with the plates 7 and coupled to a displacement sensor 9, and another arm 10 receives clay from first portion and place in second portion and to give proper shape and plurality a telescopic design blocks 11, installed over conveyor belt 2, to imprint the design over the utensil and multiple nozzles 12 placed with second portion, to paints over the utensil.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050841 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATED NAIL ART APPLICATION DEVICE

(51) International classification :A45D0029000000, B33Y0030000000, F25D0023120000, A45D0029220000, A45D0034040000
(86) International Application No :NA
Filing 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 relates to an automated nail art application device, comprising a chamber 1 associated with the device having base plate with opening that allows to insert finger over which nail art to be made, a touch display screen 2 mounted over the chamber 1, that allows to enter design and color of nail art, a imaging unit 3 installed inside the chamber 1, and robotic arm 4 attach inside chamber 1 and multiple compartments with nozzle installed with chamber 1, for storing disinfecting solutions and discharge solution for disinfecting the nail , a cotton dispenser 9 installed inside the chamber 1 in order to apply the solutions on infected area, a shaper unit 10 fitted inside the chamber 1 in order to shape the nail according to pre-selected design, a printer 12 encased inside the chamber 1 for printing various patterns over the nail.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050842 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTILEVEL BOXING TRAINING DEVICE

(51) International classification :A63B0071060000, G06F0003010000, A61B0005000000, A63B0069000000, A63B0024000000
(86) International Application No :NA
Filing Date :NA
(87) 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 multilevel boxing training device comprising, a portable body 1 equipped with a display unit 2 to select beginner/intermediate/expert level of boxing practice protocol, a thermal imaging unit 3 installed on a stand 4 for detecting identity, body posture, muscular and hand movements of user while practicing boxing, multiple target plates 5 attached on horizontal telescopic rod 6 via multiple ball joints affixed on stand 4 for changing position or orientation of plates 5, a first set of sensors 7 integrated within a pair of gloves 8 to determine vital parameters, fist pressure and punching speed of user, a second set of sensors 9 for detecting distance between user and plates 5 along with impact to determine punching efficiency and multiple LEDs 10 for suggesting boxing target corresponding to beginner or intermediate level, boxing instructions corresponding to fist pressure, punching speed, efficiency and body posture provided on display unit 2.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050843 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTERACTIVE TEACHING DEVICE

(51) International classification	:G10L0015260000, G09B0005060000, G10L0015220000, G02B0030270000, G09B0005020000
(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 an interactive teaching device comprising a panel 1 including a touch interactive displaying unit 3 activated through a button 2 when the user pushes the button 2, a touch interactive displaying unit 3 attached to the panel 1 for displaying beginner, intermediate or expert level options, a voice recognition module 6 attached to the panel 1 for detecting the user's voice commands when the user select the beginner level, a speaker 7 coupled with the module 6 for verbal teaching of the parameters of periodic table 4, reciting mnemonics to help the user in memorizing elements, multiple holographic projectors 5 attached to periodic elements for projecting images and the projectors 5 gets paired with the speaker 7 for teaching parameters, reactions, diagonal relationships with different elements based on the type of level selected.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050844 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CASSETTE MAINTENANCE AND RESTORATION DEVICE

(51) International classification :G11B0025100000, G11B0025060000, B65F0001160000, G21G0001000000, G11B0023040000
(86) International Application No :NA
Filing Date :NA
(87) 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 cassette maintenance and restoration device includes, a hollow chamber 1 for housing cassette 2 over a sorter conveyor 3, the chamber 1 is layered with a shielding material 4 to prevent the cassette 2 from damage, a cleaning module incorporating pair of rollers 5, telescopic pic 6 and a cloth 13, the sorter position a cassette 2 such that the rollers 5 insert within holes of the cassette 2 to drive the tape towards a pre-set direction to allow the pic 6 to clean and remove dust from magnetic strip, a sensing module 7 measures temperature, moisture level and tilt angle of the cassette 2, and a display unit 8 allow the user to select the cassette 2 that is to be used by the user, the controller, opens lid 9 and rotate rollers 10 to provide desired cassette 2 to the user.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050845 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FURNITURE TIP OVER PREVENTION DEVICE

(51) International classification :A47B0097000000, A47B0096200000, E06B0005100000, A47B0095000000, G01V0001000000
(86) International Application No :NA
Filing Date :NA
(87) 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 furniture tip over prevention device, comprising a frame 1 installed against a wall and constructed with plurality of telescopic rods, a first portion of frame 1 includes multiple suction clamps 2 an imaging unit 4 coupled with plurality of sensors that detect dimensions of furniture 3, plurality of launching units 5 arranged at the rear and sides portion of the frame 1 for dispensing a suction cup, a motorized door 6 coupled with cushions configured on the frame 1, to prevent furniture 3 from damage, a gimbal arrangement installed with wheels 7 attached to legs of frame 1 arrangement for preventing tipping of the furniture 3 and an audio generating module 8 connected with an earthquake detector 9 attached to the frame 1 for detecting magnitude of seismic waves corresponding to generating cautious alert.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050846 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADJUSTABLE GEOMETRICAL SHAPE DRAWING DEVICE

(51) International classification :F41B0005140000, A61B0005000000, B25J0015000000, A01K0005020000, A63B0051005000
(86) International Application No :NA
Filing Date :NA
(87) 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 an adjustable geometrical shape drawing device comprising a handheld body 1 having a telescopic rod 2, a suction cup 3 at its base to fix the device on the work-piece, a microcontroller connected to a communication module embedded with the body 1 to establish wireless connection between the computing unit and the body 1, a projection unit 4 mounted on the body 1 to project the ellipse on the surface, a pneumatic pin 5 attached at the tip of the rod 2 to maintain the tension of a string 7, a motorized reel 6 to hold the elastic string 7, a tension sensor installed with the pin 5 to measure the tension of the stretched string 7and an iris holder 8 to hold the marker fixed in a loop formed by the string through bearing arrangement 9 for drawing the shape.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202111050847 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART INFECTION PREVENTION DEVICE

(51) International classification :A61L0002100000, A61B0005020500, A61B0005000000, G02C0011000000, A61B0005160000
(86) International Application No :NA
Filing Date :NA
(87) 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 smart infection prevention device, comprises of wearable body 1 divided into first 2, second 3 and third 11 sections, transparent covering associated with pair of straps 4 integrated on both ends of covering to be worn via user, imaging unit 5 installed on front section to determine an approaching individual and alerting in case of infection, multiple sensors fabricated within body 1 to determine vitals parameters of user, multiple LEDs 6 are attached on body 1 to glow with different colours for alerting user, multiple nozzles 7 associated with left and right section for dispensing sanitization solution, glass container 8 fabricated on right and left section equipped with vertical slider for sliding glasses near eyes of user to prevent infection, microphone fixed on inner side for making voice of user audible to individual, sterilization unit associated with ultraviolet rays emitter to sterilize device.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202111050855 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ACCIDENT DETECTION AND MESSAGING SYSTEM USING GSM AND GPS

(51) International classification	:G07C0005080000, H04M0001725000, G01L0005000000, B60R0021013600, B60R0021010000
(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 :
Accordingly, the present invention provides an Accident Detection and Messaging System Using GSM And GPS comprising shock detection device which can sense vibration whenever the vehicle is hit by another vehicle; a processing unit which receive the analog electrical signal from the shock detection device; a location detection device which is activated by the processing unit on receiving input from shock detection device; a communication device which can communicate the doctor and family member about the accident along with location in which accident happens; and a display device.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202111050856 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : OVERLOADING PROTECTION IN VEHICLES

(51) International classification :B60L0003000000, F41H0011020000, G01G0019080000, B60R0016023000, A61B0005000000
(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 :
Accordingly, the present invention discloses a system for overloading protection in vehicles which continuously measure the load on the vehicle and in case of overloading turns off the ignition system of vehicle, and the advantage of present invention include low-cost, highly reliable and efficient working in real time.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050913 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A HERBOMINERAL FORMULATION FOR TREATMENT OF KIDNEY STONE PROBLEMS

(51) International classification :A61K0009000000, C12N0001380000, A01N0037360000, C12N0005000000, A23C0021000000
(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 :
The present invention relates to a herbomineral composition for disintegration and removal of kidney stone from human body comprising of lime stone, lactic acid bacteria and citric acid. Initially prepared the freeze dried powders of Lactic acid bacteria. This freeze dried powders mix with mentioned ingredients. The composition may be further modified in order to prepare its acceptable and marketable product by any of the known methodology for increasing the storage life of the product.

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050914 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SPECTRUM SENSING SYSTEM WITH ARTIFICIAL NEURAL NETWORK FOR AIR TRAFFIC CONTROL

(51) International classification :H04W0016140000, H04L0027000000, G06N0003040000, H04B0017382000, H04W0072080000
(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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Filing Date :NA

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(57) Abstract :
The present invention relates to a spectrum sensing system with artificial neural network for air traffic control. The spectrum sensing efficiency is improved by incorporating novel algorithm for optimizing the weights of conventional neural network and then employing this trained ANN for spectrum detection via energy detector. Wherein the cognitive radio sensors are deployed in the ground level performs spectrum sensing aided with MOSSA trained ANN. The MOSSA is employed to optimize the weights of ANN and thus to minimize the error in the prediction of spectrum holes; the information is then transferred to the ground cognitive radio base station, which then makes the final decision on the vacant spectrum availability

No. of Pages : 7 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050920 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TOOLS SORTING AND STORING DEVICE

(51) International classification :B25J0013080000, C23C0014560000, B65F0001000000, F21S0008080000, B01L0001000000
(86) International Application No :NA
Filing 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 relates to tool sorting and storing device, comprises a chamber 1 separated in first and second portion, which are further divided into compartments 3, the first portion is inlet port 2 equipped with scanning unit 4 connected to the microcontroller for scanning the barcode on the tool, a microcontroller that sends signal to the robotic arm 5 connected with a sliding rack 6 to grab the tool with effector end 7 for placing at the correct location, the AI camera 8 connected in the chamber 1, which captures the footages of tool compartments 3 for an efficient movement of robotic arm 5, display screen 9 mounted on the outer part 10 of chamber 1 which is used for to give commands by the user, and microcontroller processed the given commands for delivering a required tool from outlet port 10 to the user without any waste of time.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050921 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTILEVEL BOWLING TRAINING DEVICE

(51) International classification :A61B0005000000, A43B0003000000, G16H0040630000, A61B0005103000, G09B0005020000
(86) International Application No :NA
Filing Date :NA
(87) 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 multilevel bowling training device, comprising a bowling platform 1 including an AI based imaging unit 2 for detecting body posture of player, a portable body 8 worn on wrist of player integrated with plurality of sensors 9, 10 and 11, an FBG sensor 12 mounted on the body 8, a microcontroller connected with platform 1 and plurality of sensor via a communication module, a set of slider 4 coupled with motorized rollers 5 to accomplish wrapping and unwrapping of layers for changing track length, a magneto-rheological fluid container 6 coupled with an electromagnetic module and multiple nozzles 7 in order to fill fluids between layers and turning the fluid in hard state, a display unit 3 installed on the platform 1 to suggest player about proper bowling instruction.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050922 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : REAL-TIME REST BREAK MANAGEMENT SYSTEM FOR WORKPLACE

(51) International classification :G01G0023370000, G06Q0010060000, G06F0021310000, G06F0021320000, G09B0005000000
(86) International Application No :NA
Filing Date :NA
(87) 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 real-time rest break management system for workplace that comprises of a work desk, wherein first portion is incorporated with a biometric unit 4 for authenticating first user, and a second portion with a telescopic panel 2 associated with a weight sensor 6 and timer unit 7 calculating weight of head/hand manifesting user presence and their resting time period is mounted with an inflated cushion 5, an interactive primary display unit 1 attached over desk enables user to set first/second threshold time for sleeping/taking break, further linked with a tracking interface keeping track of activities and a vibrating unit crafted inside the cushion 5 which is linked to a secondary display unit 8 of second user, giving them access to actuate vibrating unit generating impulses to wake first user when threshold time period is exceeded by the first user.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050923 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SNIFFER DOG TRAINING SYSTEM

(51) International classification :A01K0015020000, A63B0069000000, A61B0005000000, G01S0007480000, A01K0027000000
(86) International Application No :NA
Filing Date :NA
(87) 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 sniffer dog training system comprising a frame 1 installed at floor includes an AI imaging unit 2 connected to a microcontroller for monitor the sniffing skill level of dog i.e. beginner, intermediate or expert, a multiple nozzles 3 arranged with the frame 1 for dispensing aromatic solutions, a projection unit 4 installed on the frame 1 for displaying image of a suspicious object at different locations, number of panels 5 arranged on multiple sliding racks 6 installed on bounders of the frame 1 to create gap between consecutive panels 5 as first path obstacle, number of telescopic hurdles 7 attached on frame 1 and connected to microcontroller, where hurdles 7 attain deployed state representing second path obstacle according to the levels and a neckband worn by the dog and embedded with pair of sensors to determine vital parameters and running speed of the dog.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050924 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTIPURPOSE NASAL ASPIRATING DEVICE

(51) International classification :A61M0001000000, A61M0016060000, H04W0028020000, B64C0029000000, G02C0005120000
(86) International Application No :NA
Filing Date :NA
(87) 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 multipurpose nasal aspirating device, comprising a portable body 1 with a pair of clips 2 and a supporter 3 to adjust the body on the user's nose, a pair of telescopic nose piece 4 connected to the base of the clips 2, an imaging unit 5 paired with moisture senor mounted on the telescopic rods for real time monitoring of the nasal such as detecting internal wound, inflammation or moisture level, a suction unit interconnected to the orifice 7 of the of the nose piece 4 to relieve congestion, a container 8 interconnected to the orifice via a telescopic rods to collect congestion based obstruction, multiple number of nozzles 6 to disperse different solution installed on a pipe 9.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050925 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART GLIDING VEHICLE

(51) International classification	:G02C0011000000, B65F0003000000, A61H0003040000, G09B0005020000, A01D0034640000
(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 smart gliding vehicle, comprising an arched frame 1 having a first 2 and second portion 3 such that both the portions hold the wheels 4,5, a flexible strap 6 attached to the frame 1 to fastened the seat 7 between the frame 1, a touch interactive screen 8 mounted over the first portion 2 of the frame 1 to receive input from the user like the type of injury etc, a sensor 14 integrated over the seat 7 that upon coming in contact with the user determine the frequency of the movement of the user, an artificial intelligence enabled imaging unit 9 mounted on the first portion 2 of the frame 1 to observe the user and the surroundings, a pair of telescopic rods 10,11 with wheels 12,13 attached to the rear wheel 5 and a pair of retracting shades 15 mounted on the frame.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050926 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NON-INVASIVE SKIN ABNORMALITY TREATMENT DEVICE

(51) International classification :A61N0005060000, A61F0013020000, A61H0039000000, A61F0013000000, A61B0010020000
(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 :
The present invention relates to a non-invasive skin abnormality treatment device, configured with a hemispherical cavity 4 positioned over affected skin area, wherein an X-ray scanning unit 6 attached within the cavity 4 scans the affected skin area, sending generated image to microcontroller associated with communication module letting users upload their biopsy report, which later comes up with three types of treatments over display unit 1 curing corresponding stage of infection, a plurality of nozzles 3 attached within the cavity 4 for dispensing ethyl solution for pre-treatment, herbal solution for first stage and plant extract for second stage of infection for third stage of infection an ultrasound module 5 carries out physiological healing of lipoma, once treated pair of robotic arms 9 attached around the device perform dressing using an adhesive bandage withdrawn from dressing storage unit 8 for sustaining the effect upon treated area.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050928 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTIPURPOSE SEATING AND WORK BREAK TRACKING SYSTEM

(51) International classification	:A61B0005000000, G06K0009000000, A61B0005020500, H04R0001020000, A47B0083040000
(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 relates to a multipurpose seating and work break tracking system comprising a desk 1 installed with a cabinet 2, wall of the cabinet is made of smart glass 10 which converts its opaqueness from translucent to transparent, a pair of imaging unit 4, 5 connected to the desk to monitor the vitals of the user while work and rest, a biometric sensor 3 is placed on the gate of the cabinet to allow only authenticated person to rest inside, an electroencephalographic (EEG) sensor 6 configured with the cushion and placed inside cabinet to monitor the activity of neurons while resting, a speaker 7 is arranged in the cabinet to produce binaural beats and a distraction module with a alarm unit 8 and robotic arm 9 to resume the user to work.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050929 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WAX BASED HEAT THERAPY DEVICE

(51) International classification :A61F0007000000, A61F0007020000, A61M0035000000, B23Q0003155000, B25J0015040000
(86) International Application No :NA
Filing 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 :
A wax based heat therapy device including a body 1 having AI imaging unit 2 which detects target area of user's body, body 1 consist of wax chamber, installed with temperature sensors connected with peltier unit that helps in maintenance of wax temperature, a nozzles 3 attached with the chamber released wax to the applicator, which is connected to first robotic arm 4 for wax application, a motorized roller 5 with platic liner attached in the body 1, second robotic arm 6 attached with the body 1 withdraws the plastic liner and wraps around user body, a scraping tools 7 associated with second robotic arm 6 peels the solidified layer of wax from user's body, sterilizing unit 8 associated with the scrapping tool 7 sterilize the tool, a gripper 9 connected with portable body 1 withdraws the oil dipped cotton balls from stored container for wiping the remaining wax.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050930 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADJUSTABLE ELECTRIC SOCKET

(51) International classification :H01R0103000000, A61F0002820000, H01R0024780000, H01J0029070000, H02K0003120000
(86) International Application No :NA
Filing 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 relates to an adjustable electric socket comprising of a plurality of slots 1 configured within a socket plate, slots 1 are interconnected with a steel thread 4 assembly suspended via common hook 2 that is pulled while inserting a plug within the slots 1, a spring assembly links the slots 1 at a common point, springs 3 expand upon pulling off the hook 2 thereby adjusting the position of slots 1 in accordance with plug pins of different sizes inserted, plurality of metallic blades 5 forms an internal funnel shaped periphery of the slots 1 with its one end hinged accompanied with a wire connecting terminal 8, a non-conductive flap 6 is mounted over slots 1 by secondary spring 7 affixed with the plate and secondary spring 7 contracts the flap 6 in upward motion while inserting the pins into the slots 1.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050931 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FOOTBALL TRAINING SYSTEM

(51) International classification :A63B0069000000, G06F0003140000, A63B0069340000, G06F0003030000, A63B0069400000
(86) International Application No :NA
Filing Date :NA
(87) 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 football training system, comprising a wearable band 1 installed with a touch interactive display panel 2, wherein the panel 2 is accessed to select a beginner level, intermediate level and expert level, a holographic projector 7 for imparting virtual holographic projections of a football 4, team mates and opponents in accordance to the selected level, an artificial intelligence enabled image capturing module 6 for capturing multiple images of the user to determine appropriate posture and in case the determined posture is found to be incorrect, then the panel 2 displays corrective posture, multiple sensors 9,10 and 11 for detecting different type of parameters that are processed by the microcontroller through comparing the parameters with the detected distance and in case the parameters are found to be unideal, then the projector 7 re-imparts holographic projection of the football 4 and the microcontroller directs the panel 2 for displaying corrective parameters.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050932 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC CAKE PREPARING DEVICE

(51) International classification :A23G0003280000, A61F0002820000, G01N0035000000, B04B0015060000, A21C0005000000
(86) International Application No :NA
Filing Date :NA
(87) 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 an automatic cake preparing device wherein a display unit suggests previously-stored user-profiles and cake designs, a first chamber fabricated with a rotating platform 5 to place the base layer of a cake and an inverted hollow telescopic icing scrapper 3 dispensing icing batter via primary container 1 over the cake evenly in a predefined path, upon completion of base layer icing detected by camera 2, 10 the cake moves into the second chamber traversing over a plurality of omnidirectional wheels 4 equipped underneath rotating platform 5, the second chamber is affixed with a rotating cylinder 8 by a ball and socket joint interconnected to secondary container 9 at an inverted position with multiple segments and dedicated nozzles linked with differently designed openings over dispensing plate 6 for dispensing multi-colour batter per information provided by the display unit 7.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050933 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTO CONTROLLED WATER JET DEVICE

(51) International classification :G06K0009000000, A61B0005000000, A61B0005110000, A61B0005220000, G06F0021320000
(86) International Application No :NA
Filing Date :NA
(87) 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 an auto controlled water jet device comprising of a body connected with a pipe 3 with one end submerged into water body and other end mounted with motor extracting water, plurality of electronic valves linked to the pump upon actuation pushes extracted water through valves discharging from plurality of nozzles at extremely high pressure generating a thrust thus allowing body lifting for a defined height, an AI imaging unit 6 engraved is coupled to microcontroller processing received images determining user body posture, profile and facial expressions, a sensing module 5 integrated within handle 4 of body measures heart rate and pressure of user griping the handle 4, based upon images and module 5 microcontroller regulates discharge intensity of valves maintaining a safe-level height, a fingerprint sensor 7 fitted with body enables user authentication, a telescopic backrest 8 is also provided to prevent user from falling.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050934 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTILEVEL DANCE STEPS TRAINING DEVICE

(51) International classification :A43B0003000000, A63B0071060000, A41D0001000000, G10L0015220000, G06F0003010000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to a multilevel dance steps training device comprising a pair of footwear 1 wirelessly connected with a computing unit 2 via communication module, a voice recognition module 3 attached to the footwear 1 in connection with microcontroller to give voice command by user, multiple vibration units 4 arranged within footwear 1 and operated by microcontroller to guide user for performing correct step, multiple pressure sensors integrated within the footwear 1 and connected to the microcontroller , a speaker 5 installed on the footwear 1 and operated by the microcontroller, to give alerts and suggestion to the user, a holographic projection 6 unit attached to the foot wear and operated by the microcontroller for projecting visual media of the respective steps.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050935 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC PIPE END ADJUSTING DEVICE

(51) International classification :B23C0003120000, B21D0041020000, B21D0039040000, B23K0009320000, B23P0019000000
(86) International Application No :NA
Filing 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 :
An automatic pipe end adjusting device includes, a perforated body 1 having multiple slots 2 of varying diameter, the body 1 includes a pipe holding unit 4 having sensors for detecting diameter, material and thickness of the pipe 5 and receives the pipe 5, an iris aperture 6 incorporated within the unit 4 to hold the pipe 5, a sliding rack 7 installed on the body 1 and the unit 4 mounted on the rack 7, a microcontroller causes translation of the unit 4 to affix the pipe 5 in the slot 2 having larger diameter than diameter of the pipe, and a pneumatic tool 8 positioned opposite to the unit and includes a pneumatic pusher 3 coupled with an expandable element 9, generates force for inserting the element 9 inside the pipe 5 followed by diametric expansion, thereby helping in increasing diameter of end portion of the pipe 5.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050936 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART PROTECTIVE HEADWEAR DEVICE

(51) International classification :A47L0015160000, B01F0003040000, A62C0003020000, B01F0015000000, G01F0001712000
(86) International Application No :NA
Filing 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 :
A smart protective headwear device comprising, headgear 1 installed with a first and second set of nozzles 2, 3 for releasing water and CO2 (carbon di-oxide) gas, a rack to alter direction of nozzles 2, 3, a pair of telescopic rods for extending/decreasing the convergence of nozzles 2 for increasing/decreasing the velocity of water to hit a distant target, an imaging unit 4 in connection with an ultrasonic sensor to determine fighting or fire related activities, a microcontroller regulates rack to change direction of first set of nozzles 2 towards persons and second set of nozzles 3 towards fire breakout to stop fighting and extinguish fire, multiple conduits supply water and CO2 towards nozzles 2, 3, a flow sensor monitors flow and generates alerts that are sent to a control room, a pressure sensor to detect 5 pressure while water and gas is ejected through nozzles 2, 3 determines misbalance.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050937 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADAPTIVE WEARABLE DEVICE

(51) International classification :A61B0005107000, A61B0005020500, G08B0025100000, G01B0021200000, A42B0003040000
(86) International Application No :NA
Filing 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 :
An adaptive wearable device comprising of a collar having first and second side, wherein second side is crafted with multiple suction cups 1 attaching collar and clothing, device is applied with a fabric layer 6 made from specific material changing collar's colour and shape, is electrically coupled with communication module and computing unit of user embedded over a microcontroller fetching data regarding location and daily outfit of user, microcontroller generates commands of changing fabric colour, a laser sensor 4 integrated discharges laser light over neck region measuring dimensions collar-user neck based upon which microcontroller generates signal reshaping collar, a stiffener incorporated at second side activates or deactivates shifting collar between standing or flat position and plurality of pressure sensors 5 fabricated at first side measures pressure exerted by neck over collar, which once crosses threshold values actuates stiffener and an inflated unit 2 all monitors by affixed imaging unit 3.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050938 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUXILIARY WHEELS BASED PARKING SYSTEM

(51) International classification :G08G0001140000, B60S0009215000, B62D0015020000, B62H0001120000, B60R0001000000
(86) International Application No :NA
Filing 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 relates to auxiliary wheels based parking system which helps in moving vehicle 1 laterally, aiding driver to park the vehicle 1 in lesser time at congested space by taking visuals from right and left side of the vehicle 1 using imaging unit 8 installed on either side of the vehicle 1, helping driver to pick a parking spot and the attached piston cylinder arrangement 2 expand when pressurized air enter the cylinder thus oscillating the shaft 4 up to a specific angle allowing the auxiliary wheels 5 to move vertically downward establishing contact with the main wheel 6 and ground 7 which in turn lifts the vehicle 1 and when shifting the gear in forward and reserve direction the auxiliary main wheel 5 moves vehicle 1 to right and left respectively allowing the driver to park vehicle 1 easily in less time.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050939 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC RING FABRICATING DEVICE

(51) International classification	:A63B0071060000, F02M0051000000, A01G0003025000, B29L0031000000, G01L0003020000
(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 automatic ring fabricating device includes a body 1 having opening in which a measuring tool 2 integrated, an iris lid 3 is installed over body 1, a screen 4 installed in the body in synchronization with microcontroller, a primary conveyer belt 5 placed next to the measuring tool 2, a pair of rollers 6 linked to microcontroller placed just next to the primary conveyer 5 a telescopic cutting tool 7 is incorporated in continuation with the rollers 6 works in synchronization with the camera 8, a telescopic gripping unit 9 attached in the body, a holding jig 10 having static and rotating arm, amalgamated within the body, a motorized ring mandrel 11 incorporated at second end of body 1, a flex shaft 12 connected in the body and hinged by a motorized ball joint a secondary conveyor belt 13 provided inside body 1.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050940 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATED THREAD COLLECTION AND DISPENSING SYSTEM

(51) International classification :G08C0017020000, B21H0003040000, B21H0009020000, B01D0035260000, G07F0017000000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
An automated thread collection and dispensing system comprises, a chamber 1 fitted with cover associated with, to secure , a plate 2 housed in chamber 1 incorporated with multiple pins 3 bolted over it and engraved with a numeric code, used for holding thread roller, a touch interactive screen 4 fitted on cover allows the user to select thread roll, a receiving compartment 5 made below the screen 4, used for collecting dispensed thread roll, a color sensor 6 incorporated with receiving compartment 5 used to determine thread color, an AI based imaging unit 7 installed within compartment 5, for capturing images of thread roller placed in compartment 5, a robotic arm 8 installed along with chamber 1, for unscrewing the pins, an optical character reader 9 is integrated at one end of robotic arm 8 to read out the numeric code engraved on pins 3 for dispensing the thread.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050941 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFLATABLE DAMAGE PROTECTION DEVICE

(51) International classification	:H01M0010420000, A41D0013018000, H01M0010480000, H02J0007350000, H04B0001388300
(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 an inflatable damage protection device comprising, a casing 1 molded in shape and size according to a computing device, a flexible tube 2 adhered in a cavity made around the periphery of the case, a piezoelectric charging module 3 attached to the casing 1 interconnected to a battery associated with the microcontroller to convert the free fall movement into charge thus store into battery, a sensing module having a tri-axial accelerometer 4 and moisture sensor 5 is connected in accordance with a microcontroller to detect falling and moisture, a gas cartridge 6 connected to the pipe 2 to store gas, a solenoid valve 7 is attached to the cartridge 6 to dispense gas into the pipe 2 and a flexible photovoltaic film 8 is fabricated at the back side of the case to convert solar energy into electric charge.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050942 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC EGG BOILING DEVICE

(51) International classification :G01N0033080000, A47G0019280000, A47J0029020000, A47J0029000000, A47J0029040000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
An automatic egg boiling device, comprising a chamber 1 having first and second end, a touch interactive screen 2 connected with fingerprint sensor 3 installed in chamber 1 receiving input, an egg tray 4 holding eggs, an artificial intelligence primary camera 5 for detecting condition of egg, a primary robotic arm 6 arranged in chamber to transfer egg in trash collector 7 and collection chamber 8, a conveyer belt 9 having an egg holder 10 installed with LED 11 performing candling protocol, a boiling chamber 12 attached for egg boiling, a secondary robotic arm 13 transferring egg into chamber, a water reservoir 14 along with salt reservoir 15 fixed over chamber 12 facilitating water into chamber 12, a drainage unit 19 under boiling chamber to discharge water after egg boiled, a peeling unit configuring iris lid 16 installed in chamber peeling outer shell of boiled egg.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2021

(21) Application No.202111050944 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADAPTIVE BANDWIDTH CONTROL TO IMPROVE ENERGY FAIRNESS IN 5G WIRELESS SENSOR NETWORK

(51) International classification	:H04W0084180000, H04L0012825000, H04W0028080000, H04W0004700000, H04W0028100000
(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 an adaptive bandwidth control to improve energy fairness in 5g wireless sensor network. Wireless sensor network (WSN) is a group of number of sensors called as node. Nodes are spatially distributed to monitor environmental conditions. Multi-hop communication is predictable in significant WSN, because of limited transmission range and energy saving purpose. Traffic load in multi-hop wireless sensor network is not distributed uniformly over the nodes. Sensor nodes closer to the sink carries large number of packets. To avoid the congestion and reduce the probability of packet loss we have maintain the energy fairness by varying bandwidth.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202111050971 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : APPARATUS FOR COLLECTING RECYCLABLE OBJECTS AND DISPENSING REWARDS

(51) International classification	:G06Q0030020000, A61B0005000000, B01L0003020000, G05B0015000000, G05B0013020000
(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 relates to an apparatus (100) for collecting recyclable objects and dispensing rewards, the apparatus includes a housing (102) comprising a first compartment (104) to collect objects from a user, and a second compartment (106) to dispense rewards to the user. One or more sensors (122) detects a set of attributes of the objects. A processor (402) operatively coupled to the one or more sensors (122), a first drive mechanism (124) and a second drive mechanism (210), the processor configured to receive, from the one or more sensors, metal attributes of the objects. The processor operates, upon detection of metal attributes, the first drive mechanism to move the objects in a collection chamber, wherein, on receipt of the objects in the collection chamber, the processor is configured to operate the second drive mechanism to allow dispensation of rewards to the user.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202111050988 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IMPROVED PROCESS OF RECYCLING OF WASTE PLASTIC FOR MAKING PALLETS & INTERLOCK TILES FOR INDUSTRIAL APPLICATION

(51) International classification	:B29B0017000000, B29C0048250000, B65D0019000000, B29K0105260000, B29C0043000000
(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 the present innovation, a simple and novel process for production of granules from waste plastic packaging materials and plastic scrap have been developed. Recycling of waste plastic from LDPE, HDPE & PP into usable pallet and interlock tiles are the main concept of this innovation. Also waste from different industries like agricultural industries (Rice Husk) and steel and petroleum industries (coal tar pitch) is reinforced into the waste plastic matrix for fabrication of composite tiles with improved mechanical strength and reduced flammability. Thus, this innovation not only provides a sustainable living for the people who are collecting them from the garbage but also converts waste into a useful product and saves the environment by reducing the amount of CO2 being released into the atmosphere thereby controlling the global warming.

No. of Pages : 32 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202111051007 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR INSTALLING BOLT-EMBEDDED FLANGE TOOLING OF WIND BLADE

(51) International classification :B29L0031080000, B29C0033380000, B23P0019100000, F04D0029320000, B63B0071000000
(86) International Application No :NA
Filing Date :NA
(87) 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 application provides a method for installing a bolt-embedded flange tooling of a wind blade, including: placing the bolt-embedded flange tooling at a corresponding position of a blade mould; adjusting a position of the bolt-embedded flange tooling according to a first measured coordinate value of a target pitch circle hole center and a first theoretical coordinate value of the target pitch circle hole center; under a condition that a difference between the first measured coordinate value and the first theoretical coordinate value is less than or equal to a first threshold, installing a support leg base and an adjustment limiter of the bolt-embedded flange tooling; adjusting positions of the support leg base and the adjustment limiter according to a relative position of the inner plane of the bolt-embedded flange tooling with respect to the blade mould and a relative position of the theoretical plane with respect to the blade mould model, so that a difference between the inner plane of the bolt-embedded flange tooling and the theoretical plane is less than or equal to a second threshold. The embodiments of the present application use the theoretical model as a reference for installing and locating, so that, in the mould closing state, the inner planes of the bolt-embedded flange toolings are on a same plane and perpendicular to the normal line of the blade root, thereby ensuring the installation accuracy of the bolt-embedded flange toolings.

No. of Pages : 31 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202111051050 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IOT BASED WATER FILTER FOR AQUARIUM

(51) International classification :A01K0063040000, A01K0063000000, B65F0001060000, A01K0061850000, C02F0001000000
(86) International Application No :NA
Filing Date :NA
(87) 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 IoT based water filter for aquarium that comprises a four layer water filter with garbage bag, automatic feeder, water heater, aurdino board, sensors. The IoT based automatic fish aquarium is fixed with automatic temperature control, automatic water filtration and automatic oxygen supply and sends the alert when there is any interruption in oxygen supply, feeding system and garbage bag.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202111051122 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL METHOD OD DISEASES DETECTION FROM RNA SECONDARY STRUCTURE USING CONVOLUTIONAL NEURAL NETWORK

(51) International classification :G06N0003040000, G06N0003080000, G06K0009000000, G06K0009620000, C07K0005090000
(86) International Application No :NA
Filing Date :NA
(87) 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 provides method for applying Convolution Neural Network for disease detection in a subject using RNA secondary structure. The disclosure also provides method of developing a CNN involving image of RNA secondary structure. The advantage of using the method is in detecting the disease before the subject shows any symptom of disease.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202111051123 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL FORTIFIED BISCUITS AND METHOD THEREOF

(51) International classification :A21D0002360000, G01N0033490000, A61K0047120000, A61K0033000000, G06F0017140000
(86) International Application No :NA
Filing Date :NA
(87) 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 relates to a novel fortified biscuits consisting of butterfly pea (Clitoria ternatea) powder and the method of preparation of same. The present invention will provide the good fatty acid to the body that is unsaturated fatty acid. The consumption of this unsaturated fatty acid will decrease blood cholesterol level in body and lower the risk of heart disease. It improves muscle movement and blood clotting. The incorporation of butterfly pea in biscuit will lead to the consumption by all age groups.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202111051124 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL DEVICE FOR OIL INFUSION

(51) International classification :A61K0008920000, A61K0008670000, A61Q0005000000, A61K0008110000, A61Q0007000000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
An invention for infusing liquids, such as vitamin E or essential oil with carrier oil such as coconut oil or almond oil for treating skin and hair scalp is disclosed. The invention comprises pluarity of fillable containers to contain infusible capsules of vitamin E or essential oil and the carrier oil with a detachable lid having spokes for piercing the capsule. The preferred embodiment can easily be connected for treating skin and hair with the infused oil.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2021

(21) Application No.202111051249 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IOT AND CLOUD BASED INTELLIGENT TOLL GATE COLLECTION SYSTEM

(51) International classification	:G07B0015060000, G07B0015040000, G07B0015020000, C10L0001198000, H01Q0003020000
(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 Smart Toll Gate System represents a shift from the routine to the automated in every corner of the world. As a result of their decreased engagement, people make fewer mistakes. One of the most significant benefits of introducing automation into society today is that it increases machine/hardware dependence (and thus trustworthiness) while decreasing human dependence. The notion that incorporating automation into our daily routines will make our lives easier and simpler has been debunked. Today, toll booths are manually operated by a toll collector who collects money from drivers and issues a receipt. Because of the sluggishness of this method, we frequently see traffic jams at toll plazas on major routes. Toll collection that is automated saves money, energy, and human resources. The Electronic Toll Collection method described in this paper is both low-cost and effective. RFID modules are used to mechanically collect the toll fee after a vehicle passes through a toll booth. This innovation, which uses RFID to register stolen and coincidental events, will solve toll plaza problems as well as the installation of an identity device for automobiles.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2021

(21) Application No.202111051375 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A BLOCKCHAIN BASED SMART MEDICAL IOT ENABLED SYSTEM FOR ESTIMATING THE AVAILABILITY OF HOSPITAL BEDS MEDICAL OBSERVATION CARE

(51) International classification	:H04W0004021000, H04W0004029000, H04L0029080000, G08B0025000000, A61G0003000000
(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 blockchain based smart medical IOT enabled system for estimating the availability of hospital beds medical observation care. The system allows estimating the occupancy of the hospital beds based on the ambulance trips to the said hospital in the given geo-location with a said geo-fence. The ambulance is acquired from at least one mobile device of at least one ambulance driver and with said geo-fence in the said location. The said geo-location and said geo fence need to be connected to the said user searching for an ambulance to reach a said hospital. The said user is connected to at least one mobile unit connected to at least one GSM mobile tower station. The said geo-location and geo-fence have a traffic density estimation in predefined time period from said location calculated based on the mobile devices connected to GSM Mobile tower.

No. of Pages : 2 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051432 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SYSTEM BASED ON MACHINE LEARNING FOR MUSIC SELECTION WITH NOISE ELIMINATION

(51) International classification :G10K0011178000, H04N0021422000, H04R0001400000, H04R0003000000, G06F0003160000
(86) International Application No :NA
Filing 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 discloses a system based on machine learning for lusic selection with noise elimination, music features and correlated user ctions. The system includes, but not limited to, an audio signal as one or more f a plurality of audio types in real time received by a noise cancellation unit rovided to filter a first audio signal to produce a first filtered audio signal, wherein ie first audio signal generated via a first sensor in an environment during resentation of media content in the environment via a media player.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051515 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SYSTEM TO ANALYSE THE EFFECTIVENESS OF E-LEARNING/ VIRTUAL LEARNING

(51) International classification	:G06Q0050200000, G09B0007000000, G09B0005000000, G09B0005140000, G09B0005060000
(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 generally to the effective way of sharing knowledge to the learner by virtual platform. Due to covid, the online teaching platforms have boomed as there is no geographical limitation or time boundation. Learners can get the knowledge anytime from any part of the world from any institution. But at the same it has caused indiscipline and lack of concentration among the learners especially of the younger group. They have started taking it as an advantage to cheat their studies resulting in poor growth in their intellect. So, to overcome this issue we invented the software which is going to keep the constant eye over the student during the whole lecture by recording their voice and capturing their image from time to time. At the end, the overall report of the learner is going to be generated representing what was their attitude towards the class.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051570 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SMART HYDROPONIC SYSTEM WITH VARIABLE LIGHT INTENSITY

(51) International classification	:G06T0015500000, A01G0027000000, A01G0013020000, G06F0009440000, G09G0003340000
(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 is a device which has a control unit which has plurality of sensors like pH, temperature, soil, moisture, light, nutrients connected to a microcontroller unit for data collection and analysis, the relay is connected to light source and solar powered unit for smooth operations. The said system is automated based on light source and the intensity of the light source is increased or decreased based on the type of growing plant. The system is customized and is IOT enabled.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051571 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A CUSTOMIZED ARRANGEMENT FOR INDUCING BENDING MOMENT ON SHAFT

(51) International classification	:F04B0023020000, F02F0007000000, B66F0009040000, F03D0007040000, G01N0003200000
(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 relates to a customized arrangement for inducing bending moment on shaft. The present invention consists of a plumber block and bearing (1), a motor (2), a coupling (3), a base plate (4), a cylinder (5), a piston (6), a spring (7), a lever operated controller, 3/2 DCV (8), a pressure gauge (9), a shut off –valve (10), a pump (11), a filter (12), a reservoir (13), a hydraulic motor (14), and a pressure relief valve (15). In the present invention, the bending load can be varied by varying hydraulic pressure in the hydraulic unit/arrangement and the position of the coupling (3) can be shifted by varying the length of the shafts.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051572 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL POWER GENERATION METHOD

(51) International classification :G01K0007020000, H01L0035320000, F24C0003120000, H02B0001300000, H01L0035340000
(86) International Application No :NA
Filing Date :NA
(87) 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 novel power generation method. The present invention consists of a burner gas stove (1), a knob (2), a burner (3), plurality of thermocouples (4) and a power socket (7). With the implementation of the present invention, as the temperature difference would be created on both ends, the current start flowing through the thermocouple (4) wires. In the present invention, the connection of the wire is done with the power socket (7) from where the electric power can be utilized.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051573 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL COMPOSITION TO ENHANCE THE LEAF AREA OF BARLEY AND PROCESS THEREOF

(51) International classification :A01N0063000000, C05F0011080000, G01B0011280000, A01G0022000000, A61K0036899800
(86) International Application No :NA
Filing Date :NA
(87) 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 describes the novel composition to enhance the leaf area in barley crops and process thereof. Barley (Hordeum vulgare) is one of the most important crops after rice and wheat produce all over the world and consumed by both human and animals. Azospirillum and Fe-EDTA (Iron-Ethylenediaminetetraacetic acid) is applied on the barley crop to enhance the leaf area of barley crop. The genus Azospirillum is free-living, nitrogen-fixing bacteria, which is known as plant growth-promoting rhizobacteria (PGPR). It associates with plant roots to promote plant growth. Thus, the application of Azospirillum and Fe-EDTA can alter the leaf area of the barley.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051574 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL COMPOSITION OF ROSEMARY ESSENTIAL OIL ENRICHED NANO EMULSION COATING

(51) International classification :A61K0009107000, A61K0036530000, A61K0009000000, A23B0007154000, C09D0005020000
(86) International Application No :NA
Filing 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 disclosure relates to the composition of the rosemary essential oil enriched nano emulsion coating for the preservation of the apples. The nanoemulsion formulation in the present invention is expected to retard decay incidence, weight loss, chilling injury and retain physico-chemical characteristics and functionality of the crop. Water chest nut starch based nanoemulsion coatings incorporated with natural plant extract especially rosemary oil extract could maintain the postharvest quality of apples during refrigerated storage.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051575 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTERACTIVE DISPLACEMENT TYPE BOARD GAME FOR LEARNING AND PERFORMANCE EVALUATION

(51) International classification :A63F0003000000, A63F0009240000, A63F0013245000, A63F0009000000, A63F0013213000
(86) International Application No :NA
Filing Date :NA
(87) 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 utility model relates to an interactive displacement type board game for amusement, learning and evaluation in a live play environment. The interactive game comprises of an electronic board and an electronic movable piece wherein the participant has to select the movable pieces as per the blinking light indication and has to place on the electronic board. The game is interactive where the participant gets the voice command for the wrong and the right selection of the movable piece and its corresponding placement on the electronic board. Based on the number of attempts made by the participant to complete the game the learning and performance of the participant is evaluated using a programmable device with memory and a mobile app.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051576 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IOT AND ZIGBEE BASED SNOW DETECTION SYSTEM FOR HILLY AREAS

(51) International classification :H04L0029080000, G06Q0010060000, H04W0004800000, G05B0019418000, A61N0001362000
(86) International Application No :NA
Filing Date :NA
(87) 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 :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. ---------- ----------

(57) Abstract :
The present disclosure herein is an IoT and Zigbee based snow detection system deployed on the rooftop for homes at hilly areas . the system comes with plurality of snow detection unit deployed at various locations of the rooftop of the home which weigh the snow on the rooftop at regular interval The system provides alert through a cloud assisted mobile application which receives the message through the zigbee and wi-fi module upon detection of excess snow on the rooftop . The zigbee module establishes data transfer to the people in the home by updating the measure of snow on the rooftop to prevent any damage.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051577 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NOVEL SEDIMENT DETECTION SYSTEM FOR WATER TANK

(51) International classification	:G01N0029110000, G01N0029420000, G01N0029300000, G01N0029032000, G01M0017020000
(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 sediment detection system for water tank. The present invention consists of a water tank (1), an acoustic signal generator (2), an acoustic sensor (3), an ADC convertor (4), a DAQ (Data acquisition) system (5), a DAC convertor (6), a Personal computer (PC) (7), and a power system (8). In the present invention, the DAQ (Data acquisition) system (5) is provided which acts as the interface between a computer and signals received from acoustic sensor (3). Here, in case the sand particle exceeds the limit, the changes can be observed in signal received and is displayed on PC Screen (7).

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051579 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL COMPOSITION OF PRIMING AGENT FOR SEED TREATMENT

(51) International classification :A61Q0019000000, A01N0037400000, A61K0031600000, A61K0008368000, A61K0031375000
(86) International Application No :NA
Filing Date :NA
(87) 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 relates to the newly formulated combination of salicylic acid that act as an inhibitor on the production of free radicals because it helps to dissipate safely from the cell therefore, least amount of MDA has been recorded. This composition effectively detoxifies the plant cell reducing the harmful reactive oxygen species (ROS). The reduced production of 2-Melonaldehyde (MDA) reveals about the effectiveness of treatment. The composition chosen in the present invention helps to maintain the production of grain yield under drought conditions. Moreover, the salicylic acid is very safe and ecofriendly.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051580 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IOT AND BIOMETRIC BASED AUTHENTICATION SYSTEM FOR A SMART DRAWER

(51) International classification :H04L0029060000, H04L0029080000, B60R0025300000, G16H0040670000, G07C0009000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present disclosure herein is an IoT and biometric based authentication system for a smart drawer. The system provides authentication access through biometric and a cloud assisted customized mobile application. The generates an alert through a notification upon detection of the door of the drawer is opened without the consent of the authorized owner. The system provides hybrid security through cloud assisted cloud server and biometric authentic to open and close the door of the drawer.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051581 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL COMPOSITION TO ENHANCE THE PROLNE CONTENT IN BARLEY CROPS AND PROCESS THEREOF

(51) International classification	:A61K0036899800, C12N0015820000, C12Q0001684400, A61K0038270000, A01N0043520000
(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 describes thenovelcomposition to enhance the proline content in barley crops and process thereof. Barley (Hordeum vulgare) is one of the most important crops after rice and wheat produce all over the world and consumed by both human and animals. The aqueous solution of combination of Zn-EDTA (Zinc-Ethylenediaminetetraacetic acid) and synthetic plant growth hormone, kinetin is applied on the barley crop to enhance the proline contentin barley crops.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051583 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL DETACHABLE DEVICE FOR PLOUGHING

(51) International classification :G06Q0050020000, A01G0027000000, H02H0005040000, G01N0033240000, A01B0079020000
(86) International Application No :NA
Filing Date :NA
(87) 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 having device has plurality of sensors attached to microcontroller unit to control all operations, the control unit controls the spring of the ploughed for exerting the amount of pressure for ploughing. The ploughing pressure is as per the soil type. The sensors sense temperature, soil type, humidity in the soil. The mobile application helps the farmer to understand and to operate the device accordingly.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051584 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL DEVICE AND SYSTEM FOR MONITORING MINE WORKERS USING LORAWAN

(51) International classification	:G08B0021020000, G08B0025010000, E21F0017180000, B66B0005000000, H01H0071000000
(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 is having microcontroller unit with plurality of sensors, connected to a database, LCD for display, LORAWN transmitter; buzzer for raising alarms and voice module for giving emergency instructions. The said device is cost effective and can be installed in any existing mine. The device is very good for giving alerts and safety of workers.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051585 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SMART SYSTEM TO PREVENT ACCIDENT FOR TWO WHEELERS

(51) International classification :B62H0001020000, G08B0021180000, A45C0013240000, B62J0003000000, B60R0025102000
(86) International Application No :NA
Filing Date :NA
(87) 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 smart system to make rider lift off the side stand before starting the ride. The present invention consists of an arduino board (1), a sound device/ alarm (2), LED lights (3), wires (4) and a battery (5). In the present invention, arduino board (1) is employed for performing the task of making rider lift the side stand and thereby preventing accident. Here, the present invention would activate the system and alert in the form of alarm (2) and LED lights (3) would be sent to the user for lifting the side stand.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051586 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A CUSTOMIZED MOBILE APPLICATION FOR AUTOMOBILE REPAIR WORKSHOP

(51) International classification	:G07C0005000000, G06Q0010060000, G06Q0010080000, G01S0019130000, A61K0038000000
(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 relates to a customized mobile application for automobile repair workshop. The present invention consists of a mobile application (user-friendly interface), a GPS tracker (Connection-oriented), google maps access and a feedback interface. In the present invention, customer can order for the car servicing through this application wherein the concerned service company worker picks the car and delivers it to the customer once the servicing is completed. The present invention ensures safe delivery as it uses GPS tracker for accessing the car status along with the estimated time.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051589 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL COMPOSITION TO IMPROVE THE IODINE VALUE OF MUSTARD OIL AND PROCESS THEREOF

(51) International classification	:A01N0065000000, A01N0065080000, C05D0009020000, A23L0027180000, A01G0007060000
(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 describes the combinationof micronutrient along with phytohormone can leads to an improvement in the crop production. To improve the iodine value mustard oil, combination of micronutrient boron and plant growth hormone cytokinin is applied in the field with the help of foliar spray and this treatment gives excellent result in terms of the quality of mustard oil.An increase in iodine value of mustard oil can leads to a better oil yield production of the mustard crop.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051590 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL DETACHABLE DEVICE FOR SHOE WARMING

(51) International classification	:A61F0007000000, H05B0003340000, H02J0007000000, A61F0007020000, A43B0003000000
(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 having device has a heating pad with heating gel (1), pressure sensor (2), battery (3), charging port (4), microcontroller (5) and temperature sensor (6). The mobile application helps the wearer to precondition the shoe also before wearing. The heating gel has sodium acetate in water.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051591 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL HELMET AND SYSTEM FOR MONITORING MINE WORKERS USING LORAWAN AND ESP 32

(51) International classification :G08B0021020000, G08B0025010000, E21F0017180000, B66B0005000000, H01H0071000000
(86) International Application No :NA
Filing Date :NA
(87) 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 having microcontroller unit with plurality of sensors, connected to a database, LCD for display, LORAWN and ESP 32 transmitter; buzzer for raising alarms and voice module for giving emergency instructions. The said device is cost effective and can be installed in any existing mine. The device is very good for giving alerts and safety of workers.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051592 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SMART SYSTEM TO REMOTELY MONITOR AND CONTROL THE COMMUNITY KITCHEN

(51) International classification :H04L0029080000, H02J0013000000, F24C0015200000, H04W0088160000, H04W0084180000
(86) International Application No :NA
Filing Date :NA
(87) 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 herein is a smart system deployed in the community kitchens to remotely monitor and control through wireless communication. The system provides three main modules such as the smart kitchen module, the coordinator device , the gateway module and the customized cloud server. The system comes with a hybrid wireless communication such as XBee and LoRa for the smart kitchen. The system provides real-time monitoring and control through the customized cloud sever to the user from any location. The system provides smart sensing system which provides real-time information to the concerned authorities and the user in real-time without any delay. The system is cost-effective and easy to install in community kitchen.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051593 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL HERBAL HAIR CARE FORMULATION AND PROCESS THEREOF

(51) International classification :A61K0008920000, A61Q0005060000, A61K0008810000, A61K0036886000, A61K0008970000
(86) International Application No :NA
Filing 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 describes thenovel herbal hair care formulation and process thereof. Various plant extracts such as Aloe vera gel extract, coconut oil, almond oil and various essential oils can be added to this gelatin-based hair gel.Novel herbal hair gel is stored in a glass jar or the glass bottle with a nozzle and then keep the jar in a refrigerator for almost 1 to 2 weeks. This novel herbal hair gel can also act as a heat protective composition and can be used on hair before doing hair styling such as straightening and curling of hair.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051594 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN OZONE LEVEL REAL-TIME GAS LEAKAGE DETECTION SYSTEM FOR ANY INDUSTRY

(51) International classification	:H04L0029080000, H04W0004800000, H04W0004380000, H04Q0009000000, H04W0004700000
(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 herein is an ozone level real-time gas leakage detection system for any industry where the plurality of sensor nodes are deployed in various industry for monitoring. The LoRa+Wi-Fi gateway acts a transmission protocol which establishes communication between the sensory node and the cloud server . The hooter system in the sensory node generates an alert upon detection of higher level of gas leakage in the industry for immediate attention. The customized mobile application or the webpage provides access to the authorized user to view the real-time data remotely via cloud server and for forecast/prediction. The hybrid architecture of LoRa and Wi-Fi-assisted ozone level detection from relevant industries for Ozone-level monitoring in a real-time is cost-effective and improved accuracy.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051595 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART INFRARED GOGGLES

(51) International classification :G09B0021000000, A61H0003060000, G06K0009000000, A61F0009080000, G06F0003160000
(86) International Application No :NA
Filing Date :NA
(87) 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 smart infrared goggles for preventing collision in the dark by calculating distance between the user and the object for visually impaired people or person having weak eyesight. The present invention consists of an infrared distance sensor, an arduino pro mini MCU chip, batteries, audio output speaker, and a switch. The present invention gives the output feedback in the form of audio in the terms of distance to avoid collision. The present invention reduces the chances of accidents and useful in the dim light.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202111051618 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD AND SYSTEM FOR DYNAMICALLY TRANSLATING ENTITIES OF A SERVICE MANAGEMENT PLATFORM

(51) International classification	:G06F0040580000, G06F0009451000, G06Q0010100000, G06F0040263000, G06F0003048400
(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 :
This disclosure relates to method (300) and system (100) for dynamically translating entities of a service management platform. The method (300) includes receiving (305) a preferred language (206) from a user for display on a User Interface (UI) (500) of the service management platform. The preferred language (206) is selected from a set of languages supported by the service management platform. The UI (500) includes a plurality of entities in base language. The plurality of entities includes at least one of static entities and configurable entities. The method (300) further includes activating (306) the preferred language (206) for display on the service management platform. The method (300) further includes translating (301) static entities from the base language to the activated preferred language (206) via a set of preconfigured resource files corresponding to the activated preferred language (206). Upon translating the static entities, the method (300) further includes dynamically translating (302) configurable entities from the base language to the activated preferred language (206) in real-time via automated translation tools.

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

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

(21) Application No.202111051627 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTELLIGENT SYSTEM FOR MANAGEMENT OF HEALTHCARE RECOURSES IN HOSPITAL USING DATA MINING & MACHINE LEARNING

(51) International classification	:G16H0040200000, G06N0003080000, G06Q0050220000, G06F0016735000, G06K0009660000
(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 intelligent system for management of healthcare resources in hospital using data mining & machine learning. The objective of the present invention is to solve the problems in the prior art technologies related to healthcare resources management in hospital with raising demands and limited availability .

No. of Pages : 32 No. of Claims : 4

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

(21) Application No.202111051669 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IOT ASSISTED HYBRID CHARGING SYSTEM BASED ON RENEWABLE ENERGY FOR A FOOTPATH

(51) International classification	:H02N0002180000, H02J0007350000, H02J0050000000, H05B0045500000, H02S0040220000
(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 herein is an internet of things assisted hybrid charging system based on photovoltaic effect and piezoelectric energy which is converted into electrical energy for charging various electronic devices . The system comes with a solar module which converts the sunlight into electrical energy and the piezoelectric energy from the footsteps in the footpath into electrical energy. The system allows the user to utilized the cloud server for remote monitoring through wireless communication. The system provides hybrid energy conversation through conversion of renewable energy into electrical energy through the charging points deployed in the footpath.

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

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

(21) Application No.202111051670 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SMART DETACHABLE AND FOLDABLE DINING TABLE

(51) International classification :H02J0007000000, A47C0017620000, A47B0013080000, A61B0006040000, G06F0040177000
(86) International Application No :NA
Filing Date :NA
(87) 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 table has a table top (6) which has elongated legs which can be folded by actuator with shaft bearing (4 and 5), having solar cell based rechargeable battery and control unit (2). The table can be converted to bed as per requirements.

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.202111051672 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A CUSTOMIZED STAIRCASE SETUP FOR WHEELCHAIR ASSISTED USER

(51) International classification :A61G0005100000, B66B0009080000, A61G0003060000, E04F0011180000, A61G0005040000
(86) International Application No :NA
Filing Date :NA
(87) 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 device for wheelchair assisted user with customized staircase (1) set up. The present invention consists of railing (2), a controller (3), two weight sensors (4), a display unit (5), rollers (6) with locking facility and a power source (7). In the present invention, the roller-based railing (2) for wheelchair on staircase can be installed on the side space of staircase (1) on which wheelchair can be easily rided upon. Here, the rollers (6) are provided with the locking facility to provide the controlled speed to the rider of wheel chair.

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

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

(21) Application No.202111051673 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL COMPOSITION OF JASMONIC ACID FOR MANAGING PHYTOPATHOGENS IN PLANTS

(51) International classification	:A01N0037420000, C12N0015820000, A01N0063300000, A01N0057160000, C05G0003600000
(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 relates to the usage of the Jasmonic acid for managing for managing phytopathogens. Moreover the different formulations of methyl jasmonate are evaluated for the management of first level disease in plants. This invention reduces the pesticide usage. The product is environment friendly product. It is beneficial for farmers, agricultural processing and postharvest transporters, processing industries to reduce crop loss. This provides pre and post inflectional resistance. Moreover it enhances the quality and quantity of the plant and produce more healthy ones.

No. of Pages : 8 No. of Claims : 3

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

(21) Application No.202111051674 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL FORMULATION TO INCREASE THE LEAF AREA OF LEGUMINOUS PLANTS AND PROCESS THEREOF

(51) International classification	:C05F0011080000, A01N0059000000, C05G0003000000, A01C0001000000, G01B0011280000
(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 describesthe novel formulation to enhance the leaf area of leguminous plants. Legumes are basically notable because of the presence of symbiotic nitrogen-fixing bacteria in structure called root nodules. Due to this reason, they play a vital role in crop rotation.The combination of salicylic acid and kinetin is applied in the fields of chickpea crop in the form of foliar spray and it effectively increase the leaf area of the plants.

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

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

(21) Application No.202111051675 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL DETACHABLE ROTATING TRAY

(51) International classification :H02J0007000000, F25D0025020000, F16D0125400000, A61B0017000000, F26B0021100000
(86) International Application No :NA
Filing Date :NA
(87) 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 :Lovely Professional University, Jalandhar-Delhi GT road Phagwara- 144411. ---------- ----------

(57) Abstract :
The present invention is a device which has a tray has a round or oval tray (1) with temperature sensor; coupled with motor spindle (2); reducing gear (3); tray coupler (4); DC motor (5); battery and control unit (6); tray base (7); and buttons (8) for controlling operations. The tray is for maintain uniform temperature within objects kept in the fridge.

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.202111051677 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SMART TRACKING SYSTEM FOR SPECTACLES

(51) International classification :A45C0011040000, G08B0021020000, H05B0047105000, A63B0071060000, B60Q0009000000
(86) International Application No :NA
Filing Date :NA
(87) 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 smart tracking system for spectacles. The present invention consists of an occupancy sensor (101), a human body sensor (102), a computing unit (100), a power supply (103), a buzzer driver (104) and a buzzer (105). In the present invention, the duration of 30 minutes is preset in the computing unit (100) for the non-activation of the sensors while spectacle is kept somewhere outside the spectacle case and not worn by the user.Here, after the preset duration, the buzzer (105) activates and starts ringing to alert the user about the location of the spectacles.

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

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

(21) Application No.202111051704 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A MULTI-FAN TURBULENCE WIND TUNNEL

(51) International classification	:G01M0009040000, F04D0019000000, G01M0009020000, H01F0027080000, B64C0039020000
(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 discloses a multi-fan turbulence wind tunnel device for analyzing the effect of wind by generating natural wind, said device comprising: a plurality of propellers; a plurality of motors; a frame of tunnel; an airfoil; a flat circular disc; a power system; and a remote drive. The frame of tunnel further comprises a housing for a plurality of fans and a plurality of motors, a self-designed contraction casing, safety mesh, divergent mask, and positioning plate; and the propeller further comprises a fan to produce a flow of air parallel to the axis of rotation. The electric current required by said plurality of motors, is obtained by electromagnetic induction from the magnetic field of the stator winding. Moreover, the airfoil is used to control and modulate the flow of air from the wind at required attack angle.

No. of Pages : 23 No. of Claims : 7

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

(21) Application No.202111051705 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A BLOCKCHAIN-BASED DIGITAL FORENSIC SYSTEM FOR AUTONOMOUS CONNECTED VEHICLES INCORPORATING ARTIFICIAL INTELLIGENCE

(51) International classification :G16H0010600000, G06Q0010000000, G05D0001020000, G05D0001000000, G06Q0050180000
(86) International Application No :NA
Filing Date :NA
(87) 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 blockchain-based digital forensic system for autonomous connected vehicles incorporating artificial intelligence and method thereof.The blockchain-based digital forensic system for an autonomous connected vehicle (ACV) incorporating artificial intelligence comprised of a data acquisition module, a block chained based storage unit, a data processing module, a data witness module, an analyzing module, a reporting module and a method for blockchain-based digital investigation system for autonomous connected vehicles incorporating artificial intelligence. The method comprised of multiple steps such as data of incident collection, processing the collected data, verification with witness module, token generation and taking consent corresponding stakeholder related to any incident of ACVs and followed by report generating and judging based on the report by the judge unit.

No. of Pages : 36 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2021
(21) Application No.202121006196 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD FOR FORMING A CONTAINER USING EXTRUSION BLOW MOULDING

(51) International classification	:B29C0049040000, B29C0048090000, B29C0049220000, B29C0049420000, 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 :
Disclosed herein an extrusion blow moulding process for forming or manufacturing a container, wherein the container is strengthened by disposing ribs on the internal wall of said container using a ribbed parison. The invention further discloses containers manufactured by the process of the invention, whereby the ribs in the neck portion of the container are flattened to avoid any leakage of the contents of the container.



Fig. 1

No. of Pages : 16 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/04/2021

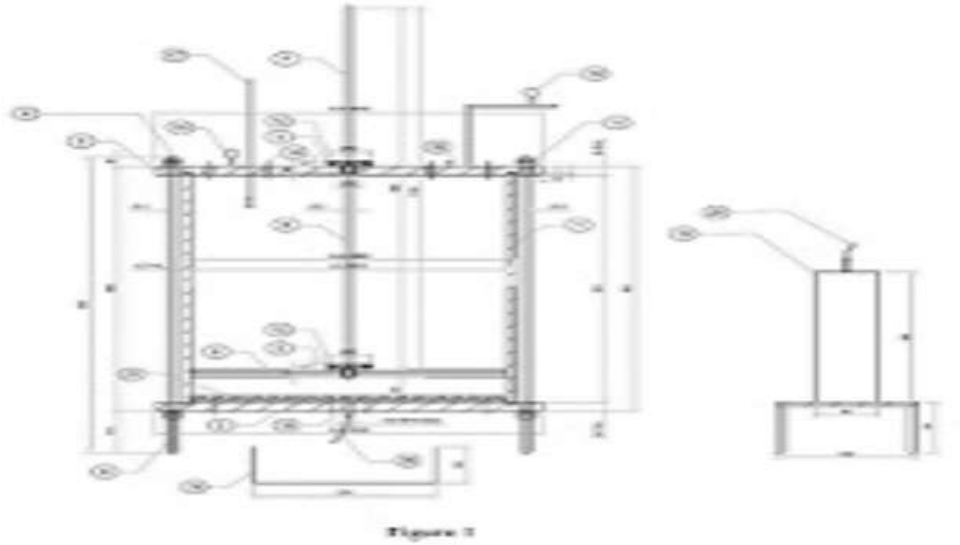
(21) Application No.202121018316 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN APPARATUS FOR MEASURING BIOCHEMICAL AND GEOTECHNICAL PROPERTIES OF MUNICIPAL SOLID WASTE DURING BIODEGRADATION AND METHOD THEREOF

(51) International classification	:B09B0003000000, B09B0001000000, G01N0033240000, B01D0047060000, C10B0053070000
(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 an apparatus for measurement of settlement at different stages of biodegradation of the municipal solid waste (MSW), and hydraulic conductivity with respect to unit weight of the MSW is measured by applying the different pressure on MSW at different aging stages, in continuation with leachate circulation time to time. The apparatus comprises a cylindrical elongated body (01), a piston (7), a pressure plate (8), a dial gauge (13), a pressure gauge (14), collection cylinder (15) connected to the cylindrical body (01) for direct gas collection from the cylindrical body (01) to the collection cylinder (15), a temperature sensor (17), a drainage valve (18) and geotextile material/ gravels (21) placed at the bottom of the cylindrical body to prevent drain out of large waste particles from the cylindrical body (01) through the drainage valve.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202121025386 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A HOMEOPATHIC COMPOSITION OF THE MEDICINES FOR CURE OF LIVER CIRRHOSIS.

(51) International classification :A61K0045060000, C12Q0001688300, A61K0031198000, G16H0050300000, A61K0031416400
(86) International Application No :NA
Filing Date :NA
(87) 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 OF THE INVENTION Liver Cirrhosis is a late stage of scarring (fibrosis) of the liver caused by many forms of liver diseases and conditions, such as hepatitis and chronic alcoholism. Each time your liver is injured — whether by disease, excessive alcohol consumption or another cause — it tries to repair itself. In the process, scar tissue forms. As cirrhosis progresses, more and more scar tissue forms, making it difficult for the liver to function (decompensate cirrhosis). Advanced cirrhosis is life-threatening. The liver damage done by cirrhosis generally can't be undone. But if liver cirrhosis is diagnosed early and the cause is treated, further damage can be limited and, rarely, reversed. Liver cirrhosis is associated with both direct complications of the loss of liver function and portal hypertension, such as jaundice, encephalopathy, or variceal hemorrhage and indirect complications like hepatorenal syndrome, hepatocellular carcinoma, or infections. These complications of cirrhosis lead to high morbidity and mortality, thus making this disease a major cause of global health burden. According to the Global Burden of Disease 2010 study, liver cirrhosis was the cause of 1.2% of the global Disability-Adjusted Life Years, and 2% of all deaths worldwide in year 2010. In India, since 1980, there has been a gradual increase in mortality due to cirrhosis, as the prevalence of risk factors of cirrhosis, i.e., alcohol intake, HBV, HCV, and diabetes (a major risk factor for NAFLD), is also increasing. In the year 2010, deaths due to liver cirrhosis in India accounted for almost one-fifth (18.3%) of the liver cirrhosis deaths worldwide.5 There- fore, universal and stringent efforts are required to control the preventable risk factors for cirrhosis. The risk factors for cirrhosis vary among different geographical populations worldwide. In developed countries, alcohol and HCV infection are major causes of chronic liver disease, while in developing countries; alcohol and HBV infection are the major etiological causes. A systematic review by D'Amico et al6 including 118 studies (23,797 patients) reported alcohol (46%) as the most common cause of cirrhosis, followed by HCV (35%), HBV (11%), and other causes (12%).In India as well, the risk factors of cirrhosis have varied among various studies conducted in different geographical areas. Data on the etiological aspects of cirrhosis of the liver from Punjab, a northern Indian state, are insufficient. This study aimed to evaluate the etiological profile of patients with cirrhosis admitted to a tertiary care institute in Punjab, India. A total of 716 hospitalized patients with cirrhosis were included. The mean age of patients was 54 ± 9.3 years (18–82 years), and male: female ratio was 5.7:1. Most common etiologies of cirrhosis were: alcohol (49.2%; n = 352), hepatitis C virus (HCV) infection (29.4%; 211), and nonalcoholic fatty liver disease (NAFLD) (13.6%; 98). Hepatitis B virus (HBV) infection was identified in 3.9% (n = 28) patients only. Other uncommon causes of cirrhosis were: autoimmune (n = 8; 1.1%), Wilson's disease (n = 5; 0.7%), celiac disease (n = 3; 0.4%), BuddChiari syndrome (BCS) (n = 1; 0.1%), and cryptogenic (n = 10; 1.4%).A total of 716 hospitalized patients with cirrhosis were included. The mean age of patients was 54 ± 9.3 years, with a range from 18 to 82 years. The male: female ratio was 5.7:1 (609/107). The various etiological factors of cirrhosis are shown. Overall, alcohol was the most common cause of cirrhosis. Alcohol intake was reported in all age groups with maximum prevalence in age group of 40 to 49 years (35.5%). Alcohol was the commonest cause of cirrhosis in males (57.8%), while HCV was the commonest cause of cirrhosis among females (68.2%). Overall, of 211 patients with HCV infection, 68 patients had history of significant alcohol intake, and 22 were obese. The mean amount of alcohol consumption among males was 210 gm/day, while none of the female patient had history of significant alcohol intake. The mean duration of alcohol intake was 18 years (12–35 years). Cirrhosis is progressive and chronic scarring of the liver caused by persistent injury. Various etiological factors of cirrhosis include alcohol, HBV, HCV, NAFLD, autoimmune, biliary cirrhosis, cardiac cirrhosis, celiac disease, inherited metabolic liver diseases, including hemochromatosis, Wilson's disease, a1 antitrypsin deficiency, etc. Liver cirrhosis is labeled as cryptogenic if no underlying cause can been identified. There has been a wide variation in the etiological factors of cirrhosis worldwide. Alcohol has been reported as the commonest etiological factor for cirrhosis in countries with high alcohol consumption, whereas in countries with low alcohol consumption, viral hepatitis is the most common cause of cirrhosis. among most of the Indian studies from various regions, HBV has been reported as the leading cause of cirrhosis. A study by Sarin et al. reported HBV as the commonest cause of cirrhosis in adults (44.3%) as well as the young (50.8%), followed by alcohol in both adults (35.8%) and the young (15.9%). A study from eastern India including 175 patients with chronic liver disease reported HBV (35.4%), HCV (14.9%), autoimmunity (2.8%), Wilson's disease (2.8%), and alcohol (1.7%) as the commonest etiological factors of cirrhosis. No etiological factor could be identified in 15.8% patients.9 A study by Trimukhe et al. from Madhya Pradesh reported HBV (40.6%) as the leading cause for cirrhosis followed by alcohol (33.3%), hepatitis C (3.3%), nonalcoholic steatohepatitis (NASH) (2.2%), and cryptogenic (19.4%). In a recent study from Himachal Pradesh, alcohol was the leading cause (62.9%), followed by HBV (10.1%), NASH (7.9%), autoimmune (3.9%), HCV (2.8%), Wilson disease, cardiac cirrhosis and cryptogenic (9.6%). A recent multicentric study reported significant interregional differences in the etiology of chronic liver disease (hepatitis B in East and South, hepatitis C in North, alcohol in Northeast, NAFLD in West). Alcoholism (34.3% of 4413) was the commonest cause of cirrhosis, while HBV (33. 3%) was the major cause of chronic liver disease in general and noncirrhotic chronic liver disease (40.8% out of 8163). In the present study, alcohol was the most common cause of cirrhosis, followed by HCV, NAFLD, HBV, and autoimmune. Alcohol consumption has been one of the major causes of liver cirrhosis among most of the studies from India. As reported by the World Health Organization, in population > 15 years of age, the per capita alcohol consumption (in liters of pure alcohol) in India in the year 2010 was 4.3. In the year 2012, the age-standardized death rates due to liver cirrhosis in India among males and females in year 2012 were 39.5 and 19.6 respectively, of which alcohol attributable fractions constituted 62.9 and 33.2% respectively. A recent epidemiological survey was conducted by the Department of Psychiatry, Govt. Medical College and Hospital, Chandigarh, to estimate the pattern of alcohol and other substance dependence in rural and slum dweller population of Chandigarh. In this survey, out of the total population of 2,992 subjects surveyed, 6.88% of individuals fulfilled dependence criteria of International Classification of Diseases. Both among urban slum and rural areas, alcohol was the primary substance of dependence. Age at first drug use was 19.75 ± 5.4 years in urban slums and 20.89 ± 5.31 years among rural population. The HCV infection is one of the major causes of parentally acquired hepatitis worldwide. An estimated 200 million people are infected with HCV infection worldwide. Chronic HCV infection is associated with a significant risk of development of cirrhosis and hepatocellular carcinoma. The HCV infection was one of the major causes of cirrhosis in our study, similar to the worldwide data, but it is in contrast to the data from other Indian studies. This is possibly due to the high prevalence of HCV infection in general population in Punjab, as compared with other parts of the country. A study by Sood et al. reported 5.2% prevalence of anti-HCV antibodies in a selected geographical region of Punjab. Another study done in Kolkata showed the prevalence of HCV infection among patients to be 1.5%, whereas studies done in Delhi showed the prevalence of HCV infection to be 5.5%.17,18 The NAFLD was the third most common etiological factor for cirrhosis in the present study. The prevalence of NAFLD in India is gradually increasing due to the rise in prevalence of metabolic risk factors including diabetes mellitus, obesity, dyslipidemia, etc. Patients who have NAFLD have been shown to be at increased risk for liver-related morbidity and mortality. In addition, these patients also have increased incidence of diabetes mellitus and increased cardiovascular disease risk on long-term follow-up.19 The HBV as an etiological factor for cirrhosis was less frequent in our study. This is likely due to the low prevalence of HBV (1.3%) in the general population in our region as compared with the rest of India.16 The average estimated carrier rate of HBV in India is 4%, with a total pool of approximately 36 million carriers. Liver cirrhosis-related mortality accounts for a substantial disease burden worldwide. Over the past 30 years, cirrhosis-related mortality has increased steadily, exceeding one million in 2010, or approximately 2% of all deaths in that year.5 In India, liver cirrhosis-related mortality has increased to 188,575 (95% uncertainty levels 109,748–303,989) in 2010 from 77,741 (95% uncertainty levels 52,196–116,746) in 1980.5 Treatment of chronic liver disease is expensive and requires long-term follow-up. Once cirrhosis develops, liver transplant is the only possible cure in most of the cases. In patients with decompensated liver cirrhosis, symptomatic treatment provides minimal survival benefit. Therefore, identifying and controlling the risk factors for cirrhosis are the need of the hour. Steps to improve prevention and treatment of risk factors of liver cirrhosis will decrease the disease burden. (Etiological Profile of Cirrhosis in a Tertiary Care Institute in Northern India 1 Prerna Goyal, 2 Omesh Goyal, 3 Deepinder Kaur, 4 Rajoo S Chhina10.5005/jp-journals-10068-0017).The drug used in our new approach for the treatment of Liver Cirrhosis consists of multi-component drugs of Homoeopathic origin. In accordance with the present invention, there is provided a formulation for healing 0f Liver Cirrhosis said formulation comprising, along with physiologically acceptable carriers, tinctures and/or homeopathic preparations.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202121025395 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A HOMEOPATHIC COMPOSITION OF THE MEDICINES FOR CURE OF PARKINSON'S DISEASE.

(51) International classification :G16H0010200000, G16H0050800000, G06Q0050220000, G16H0050700000, G99Z0099000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT OF THE INVENTION Parkinson's disease is a brain disorder that leads to shaking, stiffness, and coordination. Parkinson's symptoms usually begin gradually and get worse over time. As the disease progresses, people may have difficulty walking and talking. They may also have mental and behavioral changes, sleep problems, depression, memory difficulties, and fatigue. Both men and women can have Parkinson's disease. However, the disease affects about 50 percent more men than women. One clear risk factor for Parkinson's is age. Although most people with Parkinson's first develop the disease at about age 60, about 5 to 10 percent of people with Parkinson's have early-onset disease, which begins before the age of 50. Early-onset forms of Parkinson's are often, but not always, inherited, and some forms have been linked to specific gene mutations. In a review by de Lau and Breteler in 2006, it was reported that an estimated 10 million people in the world (i.e., approximately 0.3% of the world population) and 1% of those above 60 years are found to be affected with PD. There are very few population-based studies determining the exact incidence and prevalence of PD in India. In a door-to-door survey done in Bangalore district in South Karnataka in India in 2004, the prevalence rate of Parkinsonism was found to be 33 per 100,000 (crude prevalence) and 76 per 100,000 (age adjusted). Rural population had a higher prevalence compared to the urban population (41 vs. 14). But it was less compared to other highly prevalent neurological disorders such as headache, epilepsy, stroke, and mental retardation. From a survey in Kolkata in 2006, the prevalence of Parkinsonism was found to be 45.82 per 100,000.In the state of Kashmir, the prevalence was 14.1 per 100,000, while the age adjusted prevalence was 134 per 100,000. A survey, done in Parsi community in Mumbai, a small stable community, showed a prevalence of 192 per 100,000, which was higher compared to rest of the population. In a surveillance in old age homes in a Bangalore, there was very high prevalence of 17.6% (109/612 residents) of Parkinsonism. This may be due to unawareness of this disorder among the general population who do not avail the medical facilities at the appropriate time. The prevalence rate in Europe is 1.8 per 100 in population above 65 years. As the prevalence of PD in non-white population is lower, the normal human brains from India and United Kingdom were compared, to determine the cause. The neurons which were melanized in substantia nigra (pars compacta), as the age increases, were counted and compared. Indian brains, though had low number of melanized neurons, the decrease in these number of neurons with age was much less compared to the whites. But a similar study comparing Nigerian and British brains did not show any difference between these two ethnic groups. In one clinical study comparing the prevalence of PD in different ethnic groups in India, Anglo-Indians, who had admixed ethnicity with Indian population had nearly five times lesser prevalence of PD compared to general Indian population. In summary, there may be several other factors causing the difference in prevalence in varied populations and this need to be explored. In most studies, it has been found that women have lesser prevalence of PD. A study at All India Institutes of Medical Sciences (AIIMS) by Yadav et al., showed that women with higher number and longer duration of pregnancies had lesser prevalence of PD. This may indicate a protective role of estrogen. Most of the prevalence studies have used different methods to screen the population. Tanner et al. devised one of the widely used validated screening questionnaires for PD. Sarangmath et al., from National Institute of Mental Health and Neurosciences (NIMHANS). Have modified the screening questionnaire by Tanner et al., to cater to the varying literacy levels and different languages used in India. A few changes were made from the prior standard screening questionnaire and this was found to have good sensitivity even when administered by a nonmedical assistant. The epidemiology of PD in India is different compared to populations from different countries and also among different ethnicities in India. The prevalence studies in India are done among small population from specific areas probably with a particular type of cultural background. So, to generalize it to the rest of the population in a country where there is a huge cultural, ethnic, and social difference may not be correct. Hence, large multicenter studies for evaluating prevalence at different parts of the country are necessary. In China alone, there are more than 1.7 million people with PD. The prevalence of PD per 100,000 of population varies from country to country, with highest in Albania (800) followed by Egypt (557), USA (329-107), Israel (256), Japan (193-76), Germany (183), Spain (170-122), Italy (168-104), Finland (166-120), Bulgaria (164-137), Estonia (152), Australia (146-104), England (139-121), Portugal (135), Cuba (135), Canada (125), China (119-57), Scotland (129), Norway (102), Thailand (95), Sweden (76), New Zealand (76), Nigeria (67), Poland (66), Jordan (59), etc., Its prevalence, however, differs within countries. The prevalence among Bulgarian Gypsies in only one-tenth of that found among Bulgarians. The prevalence in the USA tends to differ according to race, with Hispanics, then Whites, then Asians, then Blacks being more prone. The incident rate at which people with PD are newly diagnosed differs greatly according to the country. The incidence for each country, in which it is known, per 100,000 of population per year was highest in Sweden (22.5-7.9), USA (20.5-13.0), Japan (16.9-10.2), Estonia (16.8), Finland (16.6-14.9), Norway (12.6), England (12), Bulgaria (11.6), Netherlands (11.5), Italy (10.1),Russia(9.0) et al. The Parsi community in Mumbai has the world's highest incidences of PD where it affects about 328 out of every 100,000 people despite living in a country, India, with one of the world's lowest incidence of PD (70 out of 100,000). Only few quantitative studies analyzing world PD research literature has been carried out in the past. Li, et al. Using data on raw output of papers, citation and keywords from the Web of Science database from 1991 to 1996 studied the global trends of PD research, including its growth in its annual outputs, international collaborations trends, and author keywords analyses. Sorensen and Weedon employed both traditional and innovative scientometric approaches to identify the top 100 PD investigators since 1985 and measured their scientific productivity as well as the citation impact of their contributions to the field. Kost off examined another route to linking disjoint literatures (shared references) through a process called bibliographic coupling. Two disjoint literatures were selected: PD (neurodegeneration) and Crohn's disease (CD) (autoimmune). Three cases were examined: Matching phrases in records with no shared references; shared references in records with no matching phrases; matching phrases in records with shared references. In addition, the main themes in the body of shared references were examined through grouping techniques to identify the myriad linkages between the two literatures.(Parkinson's disease in India: An analysis of publications output during 2002-2011 BM Gupta1, Adarsh Bala21 National Institute of Science, Technology and Development Studies, New Delhi, India,2 Government Medical College and Hospital, Chandigarh, India).The drug used in our new approach for the treatment of Parkinson Disease consists of multi-component drugs of Homoeopathic origin. In accordance with the present invention, there is provided a formulation for healing 0f Parkinson Disease said formulation comprising, along with physiologically acceptable carriers, tinctures and/or homeopathic preparations.

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(54) Title of the invention : A HOMEOPATHIC COMPOSITION OF THE MEDICINES FOR CURE OF RHEUMATOID ARTHRITIS.

(51) International classification :G16H0010200000, G06Q0050220000, G16H0010600000, G16H0050800000, G16H0050200000
(86) International Application No :NA
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(57) Abstract :
ABSTRACT OF THE INVENTION India can be characterized as a sub-continent, given that it has the second largest population (1.2 billion) worldwide, the seventh greatest land area worldwide, and socio-cultural diversity that includes over 20 official languages. Understanding the epidemiology of RA in India is necessary to drive strategies for disease management. Therefore, a literature review of observational studies focused on epidemiology and other disease aspects (co morbidities/extra-articular manifestations, functional abilities/quality of life and treatment patterns) will increase knowledge of the disease burden RA presents in India. Among the 28 studies selected for data extraction, the two main study designs were cohort and cross-sectional; sample sizes ranged from 40 to 39 826 individuals. Over 75% (22 studies) included fewer than 1000 individuals. In 24 studies, the American College of Rheumatology (ACR) criteria (formerly the American Rheumatism Association [ARA]) was used for diagnosis. The remaining studies did not provide diagnostic criteria. The geographic coverage of the selected studies included both eastern and western coasts, the far north, and the far east of India. Fourteen collected data within three northern states (Jammu and Kashmir, Haryana, Uttar Pradesh) as well as the capitol of New Delhi. Five collected data within the western state of Maharashtra. In the south, three studies were conducted within Andhra Pradesh, Karnataka and Kerala. Only two studies took place in eastern states (Tamil Nadu and West Bengal). One study claimed nationwide coverage of India, while three did not report locations of data collection. Both urban and rural regions were represented. Among studies that reported a prevalence of RA for total study populations, the prevalence ranged from 0.28% to 0.7%. In 1996, Chopra et al. conducted a study in the village of Bhigwan (Pune district, Maharashtra) using population surveys developed by the World Health Organization – International League of Associations for Rheumatology (WHO-ILAR) Community Oriented Program for Control of Rheumatic Diseases (COPCORD). They reported a prevalence of 0.51% (95% confidence interval [CI]: 0.3, 0.7) for RA diagnosed with ACR criteria and a prevalence of 0.6% (95% CI: 0.4, 0.9) for RA diagnosed clinically among nearly 6000 men and women 16 years or older (2998 men; 3000 women).Using the COPCORD surveys within urban and rural localities of Jammu, a prevalence of 0.7% was found by Mahajan et al. In a third COPCORD study, Joshi et al. surveyed over 8000 adults 16 years or older (4010 men and 4135 women) living in the Pune metropolis in Maharashtra. They recorded a crude prevalence of 0.28% (95% CI: 0.18, 0.42) for RA diagnosed with ACR criteria and a crude prevalence of 0.45 (95% CI: 0.32, 0.63) for RA diagnosed clinically. In a fourth study, Malaviya et al.surveyed five villages in the Ballabhgarh township (Haryana) and reported a prevalence of 0.7% among nearly 40 000 men and women over 15 years of age.Only one study reporting a prevalence of RA also provided the seropositivity results for the RA cases it identified. In the study completed in Pune, 62% of the RA cases diagnosed clinically were seropositive for rheumatoid factor (RF) while 100% were seropositive for anti-cyclic citrullinated peptide (anti-CCP) antibody.Among studies reporting a prevalence of RA or rheumatic symptoms for specific populations of patients, the prevalence ranged from 1.4% to 5.2%. In the Pune study previously referenced, there was a prevalence of 3.5% of RA among those with rheumatic musculo-skeletal diseases (RMSD). In the Jammu study previously referenced, a prevalence of 2.9% was found among the population with rheumatic disorders. In the eastern state of West Bengal in 1991, Kar et al completed a cross-sectional study of clinical evaluations for 4800 new patients of all ages admitted to a hospital with rheumatological symptoms. A prevalence of 5.2% of RA among these patients was found. In the last prevalence study, the population of the Ottoor village of Kerala was surveyed after an epidemic of Chikungunya virus to assess rheumatic-musculoskeletal (RMSK) pain. In this village, the prevalence of RMSK pain was 1.4% among 437 individuals (mean age: 48 years).Only one study reported RA incidence among a population with rheumatic diseases. In this nationwide clinic study, 3000 doctors provided case records from over 11 900 clinic patients suffering from acute or chronic rheumatic conditions. The incidence among this patient population was 28%; however, the time period of data collection was not provided. Nine studies included data on co morbidities among RA patients. The co morbidities reported in more than one study included anemia, dyslipidemia and Sjögren's syndrome. The co morbidities reported among 30% or more of total RA patients included anemia, dyslipidemia, leukocytosis, thrombocytosis, tuberculosis and infections of unknown organisms (never isolated). (a) Co morbidities among RA patients. (b) Extra-articular manifestations among RA patients.Extra-articular manifestations were reported among RA patients in 14 studies. The percentages of patients diagnosed with extra-articular manifestations that were not specified ranged from 15% to 61%. The specific extra-articular manifestations reported among 20% or more of total RA patients included amyloid deposits, anxiety, subclinical atherosclerosis, malaise, neuropathy, osteoporosis and splenomegaly. Additionally, interstitial lung disease, small vessel vasculitis and uveitis were reported among juvenile RA patients. Ten studies reporting co morbidities and/or extra-articular manifestations among RA patients also provided the RF seropositivity of RA patients; RF seropositivity ranged from 68% to 90%. In only one study of extra-articular manifestations, the anti-CCP assay was given to RA patients presenting to a hospital clinic in New Delhi; among 42 RA patients; the seropositivity was 90%.In accordance with the present invention, there is provided a formulation for healing 0f Rheumatoid Arthritis said formulation comprising, along with physiologically acceptable carriers, tinctures and/or homeopathic preparations. The drug used in our new approach for the treatment of Rheumatoid Arthritis consists of multi- component drugs of Homoeopathic origin.

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(54) Title of the invention : A HOMEOPATHIC COMPOSITION OF THE MEDICINES FOR CURE OF PULMONARY TUBERCULOSIS.

(51) International classification :G16H0050800000, G06Q0050220000, C12Q0001688300, A61K0031050000, G16H0010400000
(86) International Application No :NA
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(57) Abstract :
ABSTRACT OF THE INVENTION Tuberculosis is a bacterial infection that can pass through the air between people. When it affects the lungs, the medical name for this is pulmonary tuberculosis. It can cause chest pain, severe coughing, and a range of other symptoms. Tuberculosis (TB) bacteria mainly grow in the lungs, but they can infect other parts of the body. Miliary TB is an advanced form of the disease that develops when the bacteria spread through the bloodstream to infect organs beyond the lungs. The Revised National Tuberculosis Control Program was started in India in 1997. There has been no nationwide survey to assess the prevalence of pulmonary tuberculosis. We aimed to conduct a systematic review and meta-analysis of published literature to provide an estimate of the prevalence of pulmonary tuberculosis in India. Several databases including Medline, Embase, Scopus, the Cochrane Library, Web of Science, and Google Scholar were searched for studies published between January 1, 1997, and December 31, 2018, which reported the prevalence of pulmonary tuberculosis. Community-based cross-sectional studies conducted among population aged 15 years and above were included. Summary estimates were calculated using random effects models. We identified 13 articles with 16 individual studies having screened 961,633 individuals for pulmonary tuberculosis. The pooled prevalence of bacteriologically positive pulmonary tuberculosis was 295.9 (95% confidence interval: 201.1-390.6) per 100,000 population. The prevalence was higher among males than females and in rural areas compared to urban areas. The pooled prevalence of culture-positive pulmonary tuberculosis (277.8/100,000 population) was higher than smear-positive pulmonary tuberculosis (196.6/100,000 population). The pooled prevalence of bacteriologically positive pulmonary tuberculosis in sensitivity analysis was 186.6/100,000 population. In all these estimates, heterogeneity remained high and significant publication bias was observed. The prevalence of pulmonary tuberculosis varied based on sex and distribution of population in rural and urban areas. There is a need of nationwide population-based survey to estimate the burden of tuberculosis to inform control measures and facilitate monitoring and evaluation. TB is an infection caused by a type of bacteria called Mycobacterium tuberculosis (M. tuberculosis).About one-third of the world's population is infected with this type of bacteria. However, only around 10–20 percent of people with this infection develop active TB.A person who carries the bacteria but does not develop symptoms has latent TB. This is not contagious, but it can eventually develop into active TB, particularly if a person's immune system becomes weakened from a condition such as HIV.TB can become active when the immune system is unable to prevent the bacteria from multiplying. However, many people with latent TB never go on to develop active disease. A doctor can use a skin or blood test to check for the presence of M. tuberculosis. People with active pulmonary TB exhale the bacteria in tiny water droplets when they cough, sneeze, or speak. These droplets travel through the air and a person can breathe them in. However, an individual generally needs to be in prolonged close contact with someone who has active TB to contract the infection. A TB infection in a part of the body other than the lungs is not usually contagious. A TB vaccine called bacillus Calmette-Guérin (BCG) is available, but it is not in wide use in the United States, where TB rates are low. However, doctors may recommend the vaccine for children or healthcare workers who have a high risk of TB exposure. Risk factors for pulmonary TB: The risk for getting pulmonary TB is highest for people who are in close contact with those who have TB. This includes being around family or friends with TB or working in places such as the following that often house people with TB.The drug used in our new approach for the treatment of Pulmonary Tuberculosis. Consists of multi-component drugs of Homoeopathic origin.

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

(12) PATENT APPLICATION PUBLICATION
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(22) Date of filing of Application :16/06/2021

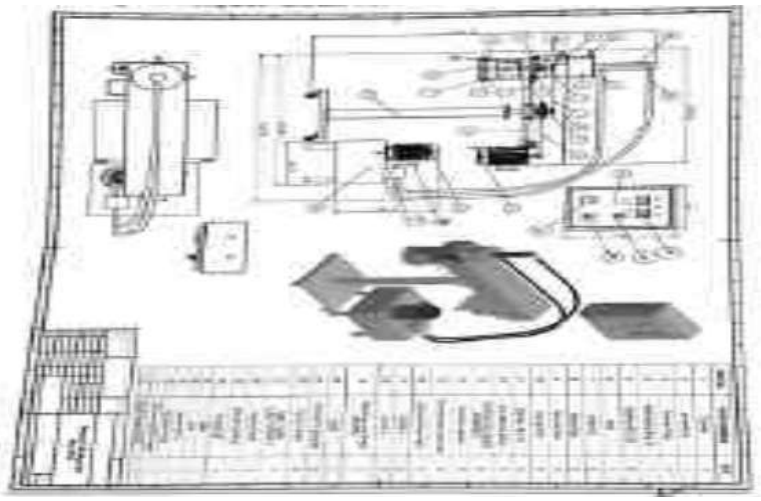
(21) Application No.202121026905 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HYDRAULIC BHUJIA SEV EXTRUDER MACHINE.

(51) International classification	:G06K0019070000, B01F0007000000, B29C0048250000, B30B0015000000, B29C0048920000
(86) International Application No Filing Date	:NA :NA
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(57) Abstract :
The present invention of the Applicant is an automatic invention which aims to eradicate problems relating to manual manufacturing of Bikaneri Bhujia, by using a rotary stirrer with controlled variable rotary stirrer speed with hydraulic downward feed, which would be used to achieve the same hand-made taste of Bhujia, as is done traditionally. The invention of the Applicant consists of a hydraulic pressing mechanism along with rotary extrusion system, which can reduce the manufacturing costs and time related to the manufacturing of Bikaneri Bhujia. Overall, the present invention of the Applicant has flexibility of rotary motion & Vertical motion speed control, Hydraulic Pressure control, Hydraulic motor speed control & on-off-on control of these motors through a timer circuit.



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(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202121035935 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL DECCASACHHARIDE STRUCTURE ISOLATED FROM GADDI SHEEP'S MILK

(51) International classification	:A61K0031702000, C12N0009100000, C10L0001140000, C07C0069960000, H01L0029775000
(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 NOVEL DECCASACHHARIDE STRUCTURE ISOLATED FROM GADDI SHEEP'S MILK The present disclosure relates to a novel deccasachharide structure (100) isolated from gaddi sheep's milk. In an aspect, the novel deccasachharide structure (100) isolated from gaddi sheep's milk structure comprises of a plurality of monosaccharide, an-Glc moiety, linked (1?4) to a-Gal, (1?6) to-Gal; a-Glc moiety; a-Gal moiety, linked (1?4) to an-Glc, (1?6) to-GlcNAc, (1?3) to a-Glc; a-Glc moiety, linked (1?3) to a-Gal, (1?4) to a-Gal; a-Gal moiety, linked (1?4) to a-Glc, (1?3) to an??-GalNAc, (1?4) to a-Gal; a-Gal moiety, linked (1?4) to a-Gal, (1?3) to a-GlcNAc, (1?6) to an-Gal; a-GlcNAc moiety, linked (1?3) to a-Gal; an-Gal moiety, linked (1?6) to a-Gal; a-Gal moiety, linked (1?6) to an-Glc; a-GlcNAc moiety, linked (1?6) to a-Gal; an-GalNAc moiety, linked (1?3) to a-Gal. (FIG. 1 will be the reference figure)

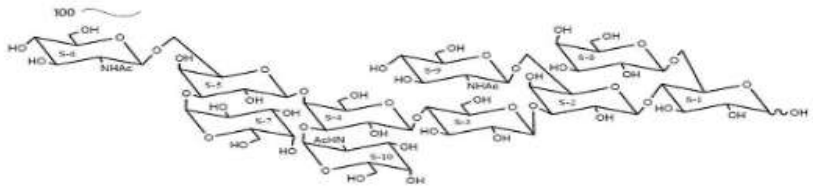


Fig. 1 Structure of deccasachharide isolated from gaddi sheep's milk.

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(19) INDIA
(22) Date of filing of Application :09/08/2021

(21) Application No.202121035936 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL HEPTASACCHARIDE STRUCTURE ISOLATED FROM GADDI SHEEP'S MILK

(51) International classification	:A61K0031702000, C12N0009100000, C12N0001200000, A23C0009123000, C07H0013040000
(86) International Application No Filing Date	:NA :NA
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(57) Abstract :
ABSTRACT A NOVEL HEPTASACCHARIDE STRUCTURE ISOLATED FROM GADDI SHEEP'S MILK The present disclosure relates to a novel heptasaccharide structure (100) isolated from gaddi sheep's milk comprises of a glucose moiety, at the reducing end, a plurality of monosaccharides, a lactosyl moiety, linked to Gal(1?4), an?Gal moiety, (1?3) linked (SRG) to-Gal, a?Gal moiety, (1??) linked (SRG) to-GlcNAc, a?Gal moiety, (1??) linked to?Glc, a-GlcNAc moiety, (1?4) linked (SRG) to-Gal, a-GlcNAc moiety, (1?6) linked (SRG) to-Gal, an a-GalNAc moiety, (1?3) linked to-Gal. Further, the compound (100) has the molecular formula of C48H81N3O36, wherein monosaccharides comprises glucose, galactose, N-acetylgalactosamine, and N-acetyl-glucosamine with there exists??configuration of anomeric linkages amongst?Gal and?Gal, and a-GalNAc and?Gal there is a??configuration of anomeric linkages amongst-GlcNAc and?Gal.) which is useful in making the environment green and clean by enhancing the growth of a plant and prepare medicine related to intestinal tract infections, diphtheria, diarrhea, and other gastrointestinal diseases (FIG. 1 will be the reference figure)

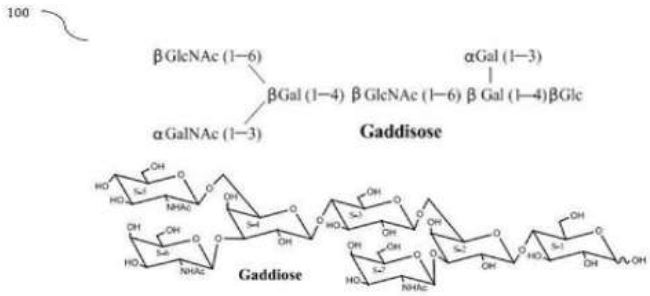


Fig. 1 The structure of heptasaccharide isolated from gaddi sheep's milk.

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(19) INDIA
(22) Date of filing of Application :13/08/2021

(21) Application No.202121036646 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD OF CPU SCHEDULING PERFORMANCE ANALYSIS USING MARKOV CHAIN MODELING.

(51) International classification :G06F0011340000, H04W0072120000, G06Q0010060000, A63B0024000000, G06F0011300000
(86) International Application No :NA
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(87) International Publication No : NA
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Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT A METHOD OF CPU SCHEDULING PERFORMANCE ANALYSIS USING MARKOV CHAIN MODELING. The present disclosure relates to a method (100) for CPU scheduling using Markov chain modeling for CPU performance evaluation. In an aspect, the method (100) for CPU scheduling using Markov chain modeling for CPU performance evaluation comprises of receiving performance information (102) from the processing unit of the CPU, receiving running process information (104), running by the connected terminal devices, determining performance information (106) according to the running process information received (104), scheduling the CPU (108) based on Markov chain modeling, sending the performance information (110) to the connected terminal devices for performance, evaluating the CPU performance (112), by solving the Markov chain model with the priorities input. (FIG. 1 will be the reference figure)

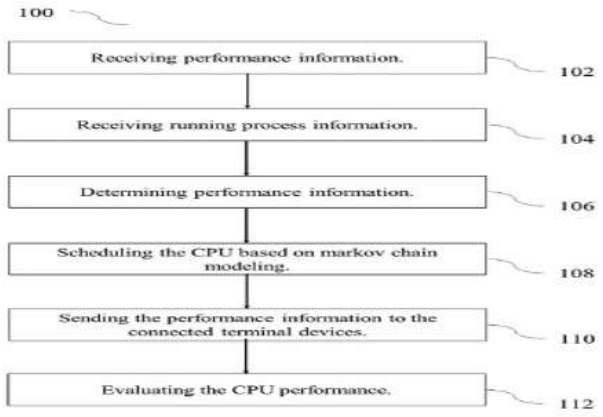


Fig. 1 Flowchart of a method for CPU scheduling using Markov chain modeling for CPU performance evaluation.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/08/2021

(21) Application No.202121038593 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL NONASACCHARIDE STRUCTURE ISOLATED FROM GADDI SHEEP'S MILK

(51) International classification :C12N0009100000, A61K0031702000, A61K0047540000, C12N0001200000, G01N0033564000
(86) International Application No :NA
Filing Date :NA
(87) 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 NOVEL NONASACCHARIDE STRUCTURE ISOLATED FROM GADDI SHEEP'S MILK The present disclosure novel nonasaccharide structure (100) isolated from gaddi sheep's milk, wherein said structure (100) comprises of a glucose moiety, at the reducing end, a plurality of nonasaccharide, a lactosyl moiety, linked to?Gal (1?4) Glc, an?Gal moiety, (1?4) linked?Gal to?Glc, an?Gal moiety, (1?3) linked?Gal to?Glc, a GlcNAc moiety, (1?4) linked to?Gal, an?Gal moiety, (1?3) linked?Gal to?Gal and a?GalNAc moiety, (1?4) linked?Gal to?GalNAc where the the plurality of nonasaccharide comprises of glucose, galactose, N-acetylgalactosamine and N-acetyl-glucosamine also there exists-configuration of anomeric linkages amongst- Glc,-Glc,-Gal,-GlcNAc,- GalNAc which is useful in making the environment green and clean by enhancing the growth of a plant and prepare medicine related to intestinal tract infections, diphtheria, diarrhea, and other gastrointestinal diseases. (FIG. 1 will be the reference figure)

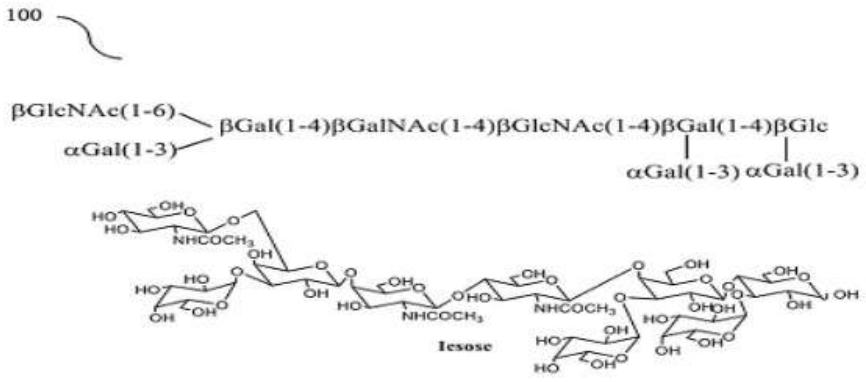


Fig. 1 The structure of nonasaccharide isolated from gaddi sheep's milk.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/08/2021

(21) Application No.202121038680 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A BATTERY MODULE AND A BATTERY PACK CONTAINING THE BATTERY MODULES

(51) International classification	:H01M0002100000, H01M0002200000, H01M0010613000, H01M0010420000, B60L0050640000
(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 MODULE AND A BATTERY PACK CONTAINING THE BATTERY MODULES The disclosure relates to a battery module (102) and a battery pack (100) containing the battery modules (102). The battery module (102) includes a plurality of cells (118), a first cell holder (112), a second cell holder (114), and a current collector (116). The first cell holder (112) and the second cell holder (114) each have a plurality of pockets to retain the cells (118). The first cell holder (112) and the second cell holder (114) are assembled to form a manifold to partially submerge the cells (118) within fluid. In addition, an interface (130) between curved surface of the cells (118) and curved surface on the pockets of at least one of the first cell holder (112) and the second cell holder (114) is sealed using a sealant. Further, the interface between the first cell holder (112) and the second cell holder (114) is sealed. To be published with Fig. 1

No. of Pages : 37 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2021

(21) Application No.202121039670 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEVELOPMENT OF NANOPARTICLE FORMULATION OF ACECLOFENAC

(51) International classification :A61K0031216000, A61K0009510000, A61K0009140000, A61K0009160000, A61K0047140000
(86) International Application No :NA
Filing Date :NA
(87) 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 preparation of controlled release nanoparticle with enhanced solubility and dissolution property by solvent evaporation method. Whereas the polymeres used in the preparation of acelofenac nanoparticles F1-F12 were Ethyl cellulose, Chitosan & HPMC K100 at different ratios. The solubility studies suggested that the nanoparticle formulations enhanced the bioavailability of Aceclofenac by improving its solubility and dissolution rate when compared to pure drug. Zeta potential value of Aceclofenac nanoparticles showed a positive surface charge this is because of more anion on the surface of the particles higher the charge higher is the stability of the nanoparticle.out of all the formulations formulation formulation F6 of nanoparticles shown the extent of drug release around (96.93 %) in 12hrs.

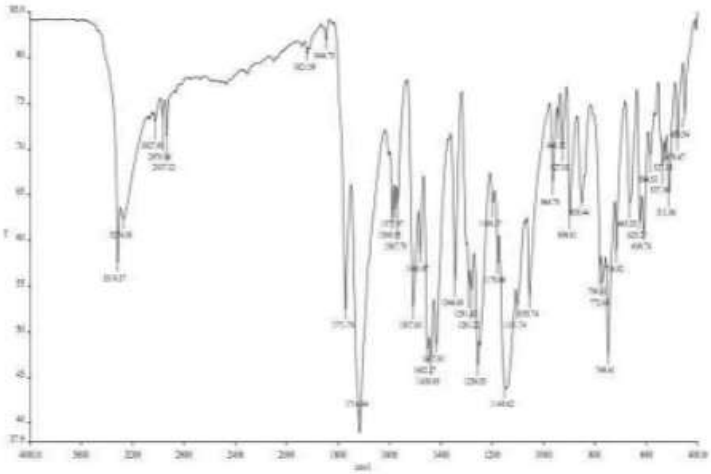


Figure 1

No. of Pages : 20 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/09/2021

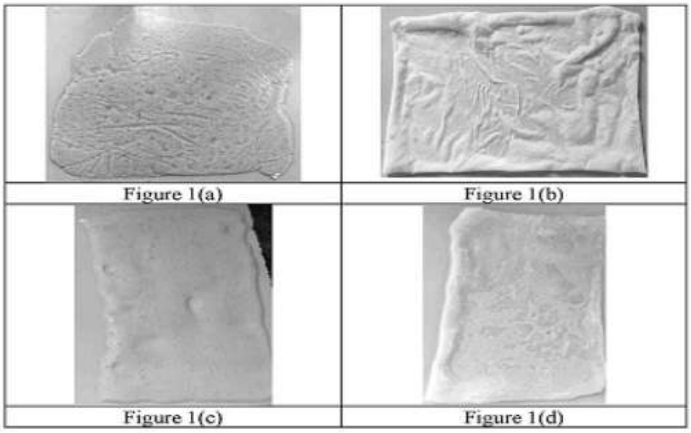
(21) Application No.202121041159 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CARBOXY METHYL CELLULOSE HYDROGEL AND PRODUCTION PROCESS THEREOF

(51) International classification :C02F0001280000, C02F0101200000, C08B0011120000, A23K0020200000, A61K0033440000
(86) International Application No :NA
Filing Date :NA
(87) 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 an improved hydrogel comprising carboxymethyl cellulose (Na) salt, ammonium chloride and/or alkali prepared in an aqueous solution and cast on activated charcoal, cotton fibers or cotton mesh. The use of activated charcoal will act as both supporting material for hydrogel and as well as absorbing agent for the heavy metals. The use of cotton fibers or cotton mesh gives required strength to the hydrogel and assures its easy recovery after reaction. More particularly, the invention discloses a method of production of the improved hydrogel. The improved hydrogel finds application in absorption of heavy metals from contaminated wastewater.


Figure 1(a)
Figure 1(b)
Figure 1(c)
Figure 1(d)

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/10/2021

(21) Application No.202121047528 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NOVEL ANTI-PROLIFERATIVE FLAVONE DERIVATIVES

(51) International classification	:C07D0311300000, A61K0045060000, A61F0002070000, A61L0031160000, C07D0241380000
(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 novel aromatase enzyme Inhibitors flavnne. derivatives. The present invention also relates to a process for the preparation thereof. The novel flavone derivatives of the present invention are non-steroidal aromatase inhibitors for use as anti-proliferative agents.

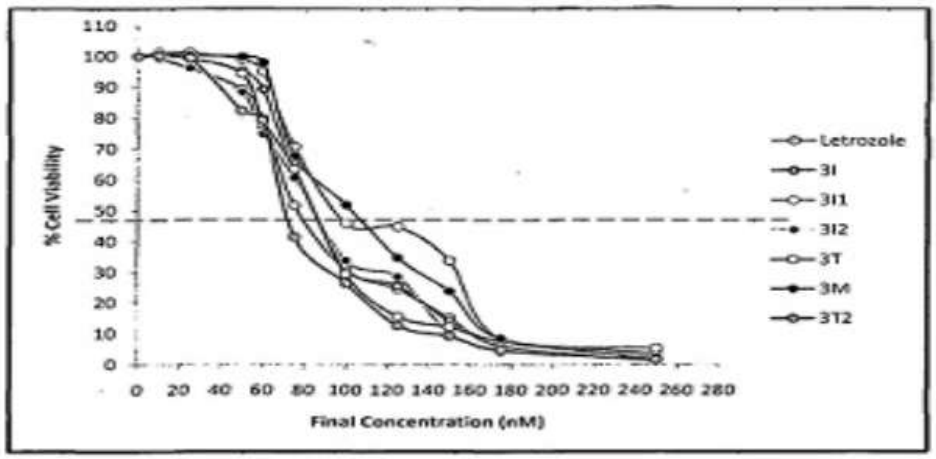


Figure 1

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/10/2021

(21) Application No.202121048707 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ENGLISH SPEAKING ERROR DETECTOR AI- BASED MOBILE CHIP.

(51) International classification :G06F0040253000, G09B0019060000, G06Q0050000000, H04M0001190000, B60K0006543000
(86) International Application No :NA
Filing Date :NA
(87) 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 English Speaking Error Detector AI-Based Mobile Chip is an innovation which will help one actually as well as exceptionally as a fundamental expert. The significance of English language is known to all. Along these lines, an ever increasing number of individuals attempt to master conveying in English language. It is simple for those people to further develop their talking abilities who have concentrated on English as a first language in quite a while. Be that as it may, for understudies of the vernacular medium it is an extremely challenging assignment. Such people battle to convey adequately in English despite joining English-talking classes. These people become exceptionally conscious of utilizing English for correspondence in dread of committing errors, dread that individuals would ridicule them, dread of ruining their impression, etc. They timid away which brings about no improvement in communicating in the language. The thumb rule in figuring out how to communicate in another dialect is to commit errors, yet talk. Individuals are anxious in light of the fact that mix-ups cause us to feel helpless. There are a lot of spelling checker and Grammar checker applications accessible both free and paid that help people in working on their composing style and clearness. Yet, there is no device that assists people with changing over to text one's every day discussion consequently, identify and feature blunders and assist people with understanding one's own slip-ups. A chip embedded in the ear cases or versatile could help record and convert to message at whatever point the singular discussions via telephone to another person. On the off chance that a singular willing to become familiar with the English language just chooses to invest in amounts of energy to talk in English while speaking via telephone, this chip would be exceptionally be useful. When there is no dread of addressing somebody up close and personal straightforwardly, it is simpler to utilize the language. Also, consistently, the individual could actually look at the mistakes and become more certain with the application which will identify blunders and propose adjustments.

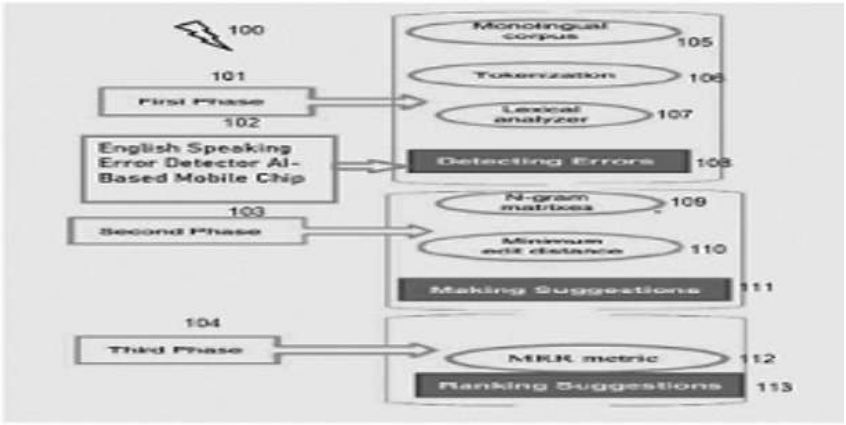


FIG.1: English Speaking Error Detector, Flow Chart.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/10/2021

(21) Application No.202121049293 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM FOR UTILIZATION OF WASTE ETCHANT IN PHOTOCHEMICAL MACHINING

(51) International classification :B09B0003000000, C02F0001660000, B09C0001080000, C02F0001520000, G01N0021780000
(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 :
The present disclosure relates to a system for considering environmental protective approach The proposed system treats the Waste Etchant in Photochemical Machining without disturbing entire assembly structure and methologloy. In the present system included development of a reaction of the waste FeCl3 and FeCl2 with NaOH for the conversion of the waste overflow into useful biproducts which can be further utilised. System uses aqueous ferric chloride waste and sodium hydroxide waste from photochemical machining (PCM) are considered as hazardous waste. It contains significant quantity of acids and heavy metals. Improper disposal of ferric chloride alters the range of alkalinity and acidity affect the fauna and flora in water and soil. The alteration in the value of pH of neutral water affect the aquatic life adversely. Serious issue is that the etch rate of regenerated etchant goes on decreasing with each regeneration. After few regenerations (or after one year), to avoid the problem of landfill, the alternative technique has been developed to decompose the waste etchant into nanoparticles for medical applications. In the present system environmental protection issue is considered

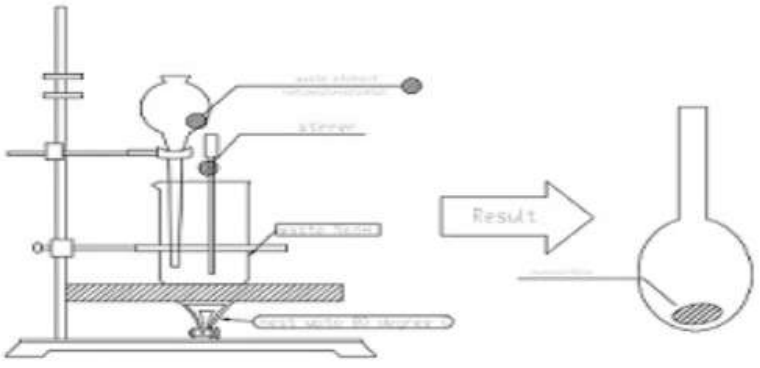


Fig:- An experimental arrangement for Utilization of Waste Etchant in Photochemical Machining

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2021

(21) Application No.202121049746 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PRECAST PREFAB BAMBOO REINFORCED CEMENT CONCRETE COMPOUND WALL PANELS.

(51) International classification	:C04B0028020000, C04B0111000000, E04C0003360000, E04C0002160000, E04B0002720000
(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 Precast Prefab Bamboo Reinforced Cement Concrete Compound Wall Panels is a In earlier days' bricks were considered to be the best choice for compound walls to easily work with them. Traditional compound walls are made from clay and their durability depends upon the quality of plaster used while preparation. In terms of material, these walls are very expensive. Traditional compound wall construction involves extensive installation and a hard labor process. To conquer this problem precast compound walls are gaining much attention for a better design. These Precast compound walls are cost-effective and provide long-lasting life. So there is a need to have an alternative and environmentally friendly material in construction that won't harm the environment, similar to steel, which can contribute to sustainable development. Bamboo is natural, renewable, and its tensile strength to specific weight ratio is high. Also, it possesses both tensile and compressive strength. This research work proposes the use of bamboo as an alternative to steel reinforcement in the manufacturing process of Precast Reinforced cement concrete (RCC) compound walls. This Newly developed product will echo friendly and sustainable as instead of steel Bamboo will be used as reinforcement. At the same time, it will have all the advantages of precast compound walls. This newly developed product will be cost-effective, reusable, lightweight, and durable, save the time of installation and it will have similar strength as that Precast RCC compound wall. This research work proposes eco-friendly and sustainable way towards production of Compound wall.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2021

(21) Application No.202121049747 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : EXPERIMENTAL INVESTIGATION FOR HIGH STRENGTH AND DURABLE CONCRETE WITH ADDITION OF ADMIXTURES.

(51) International classification	:C04B0040000000, G01N0033380000, C04B0018140000, C04B0028040000, D04H0003018000
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
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(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
ABSTRACT Our Invention Experimental Investigation for High Strength and Durable Concrete with addition of Admixtures is a research an experimental investigation is carried out on high strength and durable concrete by using an appropriate combination of reactive and micro filler mineral admixtures. The analysis of result is carried out for water demand, heat of hydration, setting time, bleeding, rate of reactivity, strength and density to find the best combination of the two. The experimental work is carried out by replacing cementitious material with an appropriate combination and proportion of reactive and micro filler mineral admixture. The behavior and properties of concrete are recorded at every stage. Important changes are noticed in compressive strength, density of concrete at various stages (3, 7, 28 and 56 days). The test results are very encouraging for preparing high strength and durable concrete using suitable combination of reactive and micro filler mineral admixture in suitable proportion. With lower cost, naturally available material handling and workability aspects, Metakaolin outplays Micro Silica.

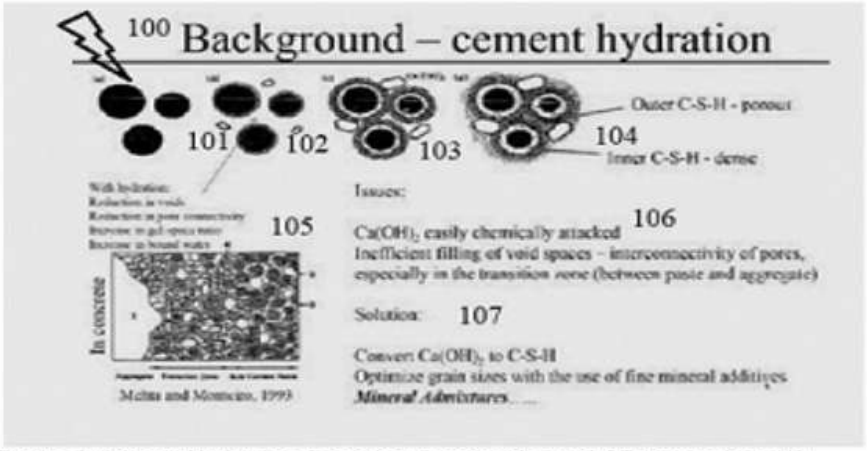


Figure 1. Cement Hydration (source: www.google.com) (Prior Art Search)

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/10/2021

(21) Application No.202121049749 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A MACHINE LEARNING MODEL FOR VENUE EXPLORATION AND RECOMMENDATION.

(51) International classification :G06Q0050140000, G06Q0030020000, G06N0020000000, G06Q0050100000, G06N0005040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Vidya Suresh Parihar
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(57) Abstract :
ABSTRACT Our Invention A Machine Learning Model for Venue Exploration and Recommendation is a with the rise of demand for scalable standalone system for venue's exploration and recommendation plays an increasingly important role, for accurate and speedy Venue's exploration, recommendation and analysis system can help tourism and hospitality sector to solve all the uncertainty associated with Service, information and supply and reduce cost associated with is and produce best results. Most of the business organizations associated with tourism and hospitality sector heavily depend on information base and demands venue's exploration, recommendation, prediction of trends. The accuracy in venue's exploration and recommendation provides a big impact in business. Data mining, collaborative filtering and k-means methods are very actual tools in extracting hidden knowledge from an enormous dataset to enhance accuracy and efficiency of their commendation.

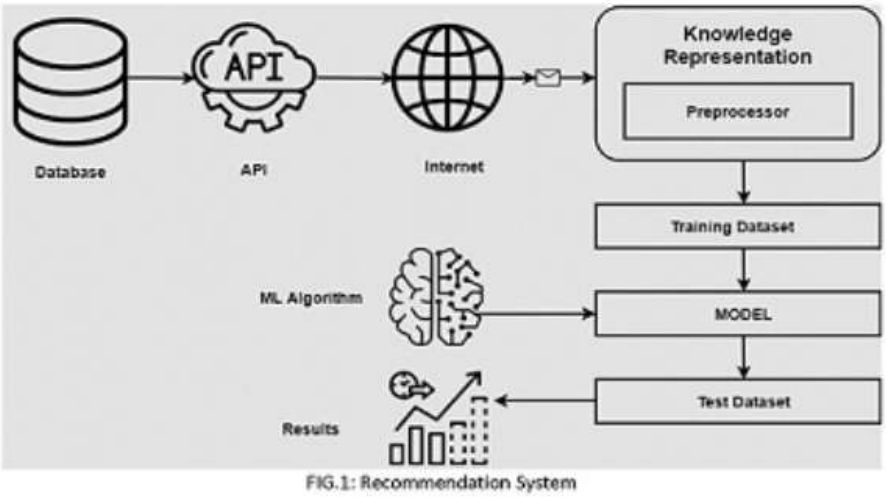


FIG.1: Recommendation System

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

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(19) INDIA
(22) Date of filing of Application :29/10/2021

(21) Application No.202121049750 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE (AI) & INTERNET OF THINGS (IOT) BASED DIGITAL MARKETING STRATEGIES, APPROACHES AND RESULT

(51) International classification :G06Q0030020000, G06Q0010060000, G10L0015220000, G09F0027000000, H01R0013717000
(86) International Application No :NA
Filing 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 :
Abstract: Our Invention Artificial Intelligence and Internet of Things(IoT) Based Digital Marketing Strategies, Approaches and Result is a popularity of organizations integrating technology into their digital marketing strategy using IoT- based through AI-Programming, directs attention to the need for an in-depth review of digital marketing strategies. The invention is a Making a strategic shift to client-centered marketing strategies provide businesses the opportunity to engage in a new era of innovative marketing practices that use digital marketing to meet their advanced marketing requirements. The invention is an effective digital marketing approaches, provide companies with valuable tools to target a larger audience, using a combination of emerging IoT- Technology, Technologies and some aspects of traditional marketing. The Invention provided individuals, companies, organizations, businesses and researchers, with digital marketing strategies to increase visibility to their target market.

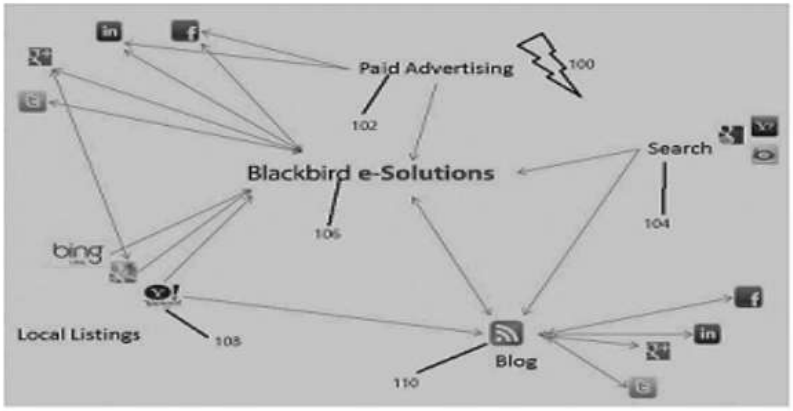


Fig.1: Digital Marketing flow chart.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/10/2021

(21) Application No.202121049955 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AIR POWERED TWO WHEEL VEHICLE

(51) International classification :B62K0025080000, B60R0016030000, A01D0042000000, F16K0031122000, B62B0001140000
(86) International Application No :NA
Filing Date :NA
(87) 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 air powered two wheel vehicles. It consists of the receiver tank which helps to power the segway or two wheels mini scooter and ultimately helps it to move. The assembly includes a microcontroller unit 36, a pneumatic piston unit 38, a driving shaft 40, a vacuum cleaner unit 42, a power supply 34, a servo motor 22, a solenoid valve 26 and a valve control unit 44. The detachable accessories make it suitable for various other applications as well. The solenoid valve helps to control the air flow in the piston which drives the axle. The present invention focuses on the easier, more feasible and cost efficient solution. Figure 1

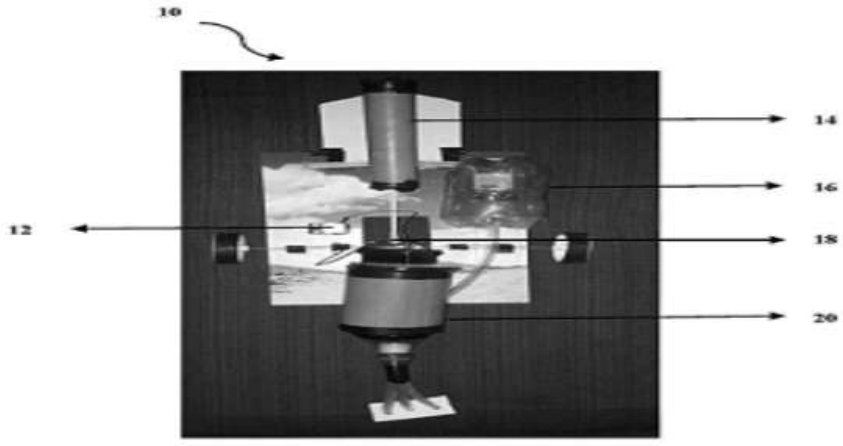


Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202121050100 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BEAM STEERABLE ANTENNA FOR WIRELESS COMMUNICATION TECHNOLOGY

(51) International classification :H01Q0003260000, G16H0050500000, H01Q0009040000, G21K0001040000, B21F0027120000
(86) International Application No :NA
Filing Date :NA
(87) 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 Beam Steerable Antenna utilizing the Conformable Silicone Rubber Substrate and Cilia Rods for Wireless Communication Technology is a radar, satellite, and restriction innovations, shaft controlling receiving wires have turned into an imperative part of current remote correspondence frameworks. The beam shifting can be refined by precisely changing the receiving wire math to the necessary position. Be that as it may, such a framework contains versatile parts, which adds to the framework's intricacy. In the developed plan, a clever high addition shaft steerable dielectric stacked Microstrip Antenna (MSA) is planned and recreated. Silicone elastic polymer is utilized as substrate and dielectric material. A 2?? × 2?? dielectric stacked MSA is likewise manufactured and tested, where? is frequency in dielectric. The shifting of radiation design is then read for 3?? × 3?? dielectric stacked MSA where a variety of 3 × 3 metallic cilia are planned on top surface of dielectric load. It is feasible to shift the receiving or transmitting beam by shifting the metallic cilia rods. The metallic cilia affected by magnetic field are shifted in four distinct ways (left, right, towards and away from feed area) at different points like 10°, 30°,45° and 60° which brings about proportionate beam shifting. The impact of pillar controlling is then examined on different qualities of the receiving wire like Gain, VSWR and so forth. The plan and reproduction of the proposed configuration is done utilizing Computer Simulation Technology (CST) studio suite.

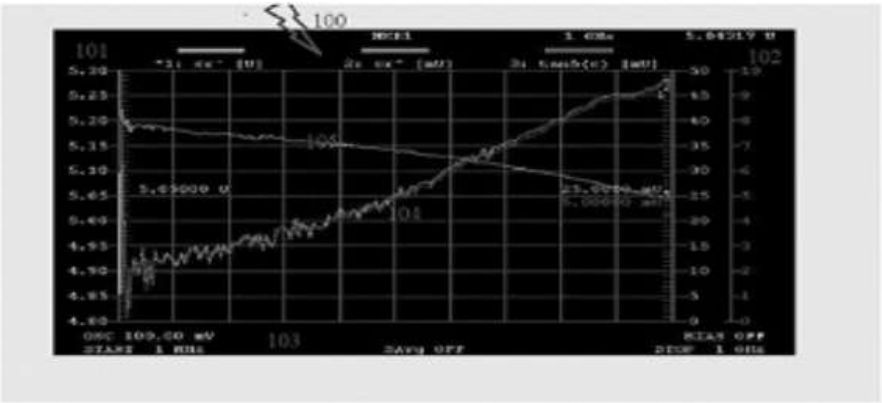


Figure 1 Measured dielectric constant and loss tangent for silicone rubber sample.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202121050101 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTELLIGENT BIOMETRIC SANITIZER WITH ACADEMY TOOLS.

(51) International classification :G06K0009000000, A63F0001040000, E04C0001390000, G07C0009370000, G09B0015020000
(86) International Application No :NA
Filing Date :NA
(87) 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 Intelligent Biometric Sanitizer with Academy Tools. Post Covid pandemic biometric frameworks in the workplaces will be stayed away from as they might spread diseases. To energize individuals/understudies/staff keen biometric is planned. It is a blend of many devices together, utilizing sensor it records the human internal heat level (MLX90614) and furthermore records the participation and it very well may be imparted if there should arise an occurrence of understudies to their folks. Oxygen level additionally is recorded in the gadget. It delivers a specific measure of sanitizer when hands are put beneath the sensor. It is furnished with an enormous mirror making the most common way of recording participation lovely one. It additionally has a small scale emergency treatment unit inside it. The gadget is likewise outfitted with a camera. Along these lines it is an across the board gadget and furthermore an unquestionable requirement for workplaces and instructive foundations remembering the overall conditions. In this digitalized world, businesses, different organizations just as instructive associations are utilizing individual recognizable proof methodology like RFID, unique mark, and so on Out of this load of techniques face acknowledgment is most productive one. It saves time. It has numerous applications in participation the board frameworks just as in security frameworks. A camera is essential prerequisite for this task. On the off chance that an individual enters in a grounds, camera takes a preview and with the further preprocessing like face editing the face data set is gathered to perceive the essences of understudy. At first the framework is prepared with faces which are known as understudy data set. Then, at that point, it contrasts the picture and dataset and if it coordinates with the participation will straightforwardly store into any capacity gadget with separate individual's name and ID. OpenCV calculation is utilized with picture handling system. Our methodology is-face location, face preprocessing, data set creation, face preparing, face acknowledgment, participation information base and internal heat level detecting.

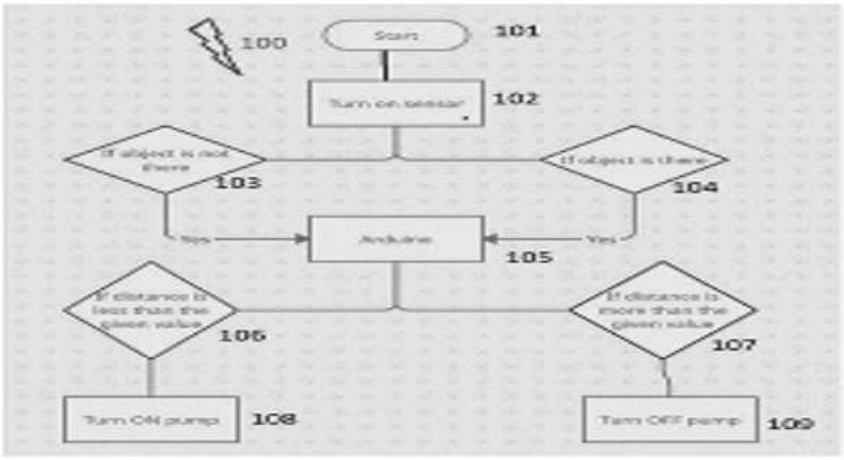


FIG.1: Intelligent Biometric Sanitizer with Academy Tools, Flow Chart.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202121050102 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTERNET OF THINGS(IOT) BASED DEFINED DIGITAL MARKETING STRATEGIES, APPROACHES USING AI- BASED PROGRAMMING

(51) International classification :G06Q0030020000, G06Q0050100000, G06Q0010060000, G09F0027000000, H04L0029080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT: Our Invention Internet of Things(IoT) Based Defined Digital Marketing Strategies, Approaches using AI- Based Programming is to the rise in popularity of organizations integrating technology into their advanced marketing strategy. The digital marketing approaches provide companies with valuable tools to target a larger audience using a combination of emerging technologies and some aspects of traditional marketing. The Invention provided group, individuals, companies, organizations, businesses and researchers innovation, with digital marketing strategies to increase visibility to their target market. The digital marketing strategy using IoT- based through and AI-Based Programming, directs attention to the need for an in-depth review of digital marketing strategies and also the invention is a mapped and Making a strategic shift to client-centered marketing strategies provide higher businesses. The opportunity to engage in an era of innovative marketing practices that use digital marketing to meet their marketing requirements and also the invention is an effective digital marketing approaches, provide companies with valuable more than one tools to target a larger audience, using an integrated and combination of emerging IoT -Protocol Technology and some aspects of old marketing.

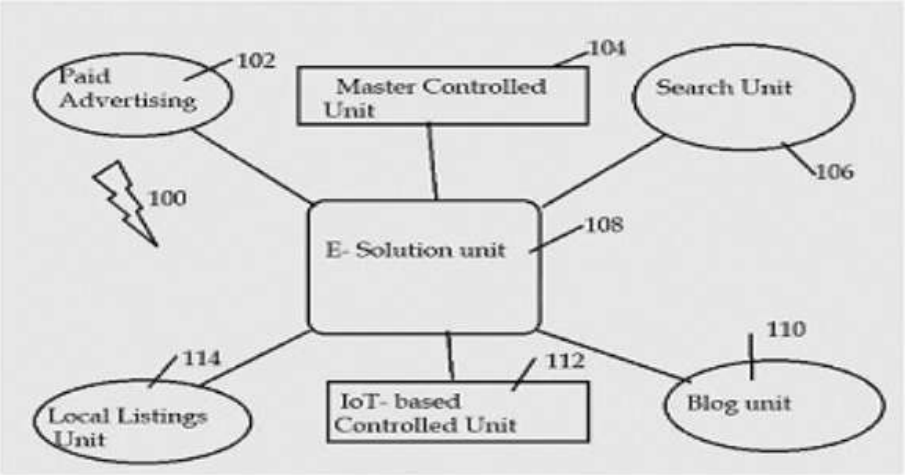


Fig.1: Digital Marketing Strategies, Approaches using AI- Based Programming Flow Chart.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202121050103 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ISOLATION AND CHARACTERIZATION OF BIOACTIVE UNIQUE COMPLEX COMPOUNDS FROM STEMBARK ADVANCED EXTRACT OF UAPACA PILOSAHUTCH.

(51) International classification :A61K0039112000, C12R0001125000, C07K0014255000, C07K0014250000, A61K0031280000
(86) International Application No :NA
Filing 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 :
ABSTRACT Our invention Isolation and Characterization of Bioactive Unique Complex Compounds from Stembark Advanced Extract of Uapaca Pilosahutch is a Uapaca pilosa(Hutch.) a plant utilized in certain pieces of Africa in the treatment of looseness of the bowels, feminine torment, fever, blockage, erectile brokenness, skin contaminations, female sterility, heap, ailment, emetic, tooth-inconveniences and weariness. The most dynamic of the multitude of divisions, prompted the disconnection of two mixtures GF1 and GF2. Their personalities were dictated by investigation of their ghostly information utilizing FTIR, 1D and 2D NMR. The designs of the mixtures were upheld by contrasting their otherworldly information and the writing. GF1 was observed to be botulin while GF2 was observed to be beta-sit sterol. The antimicrobial screening of the rough concentrate and divisions utilizing agar well dispersion method showed action against Staphylococcus aureus, Shigella dysenteries, Salmonella Typhi, Bacillus subtilis and Escherichia coli. The Zone of Inhibition of the plant separate against chosen microorganisms goes from 13mm to 17mm against Staphylococcus aureus, 10mm to 14mm against Bacillus subtilis, 12mm to 15mm against Shigella dysenteries, 15mm to 18mm against Escherichia coli and 10mm to 11mm against Salmonella Typhi. The MIC and MBC for the concentrate, divisions and segregated mixtures not really set in stone. The scope of Minimum Inhibitory fixation is between 6.25 mg/mL to 25 mg/mL for Staphylococcus aureus, 25 mg/mL for Shigella dysenteries, 6.25 mg/mL for Bacillus subtilized 12.50 mg/mL for Escherichia coli while the Minimum Bactericidal Concentration range between 12.50 mg/mL for Staphylococcus aureus, 50 mg/mL for Shigella dysenteries, 12.50 mg/mL for Bacillus subtilis and 25 mg/mL for Escherichia coli.

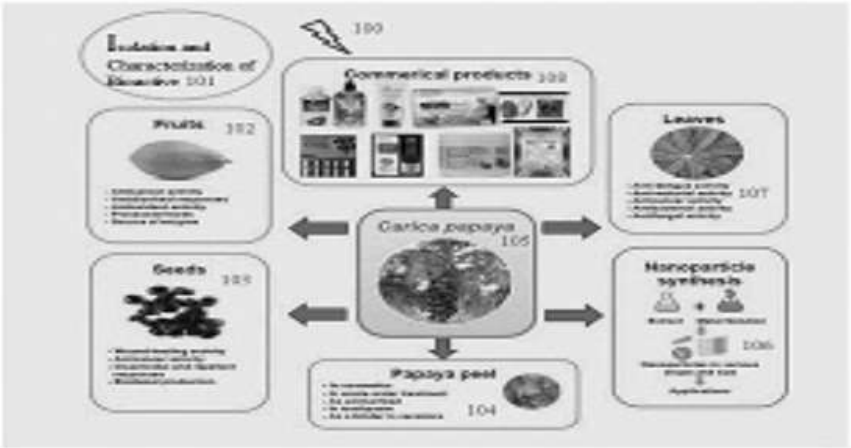


FIG.1: Isolation and Characterization of Bioactive Unique Complex Compounds from Stembark Advanced Extract of Uapaca Pilosahutch Flow Chart.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202121050104 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BITCOIN PRICE QUICK PREDICTION USING AI, DL AND ML

(51) International classification :G06Q0020060000, G06Q0020380000, A61K0031366000, G07F0017320000, G06Q0020360000
(86) International Application No :NA
Filing Date :NA
(87) 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)Veer Bhadra Pratap Singh, (Assistant Professor)
4)Dr. Lata Menon
5)Mr. Ravi Bari
6)Ms. Neethumol K G
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(57) Abstract :
ABSTRACT Our Invention Bitcoin Price Quick Prediction Using AI, DL and ML is a Digital currency are a computerized method of cash wherein all exchanges are held electronically. It is a delicate money which doesn't exist as hard notes truly. Here, we are underscoring the distinction of fiat cash which is decentralized that with practically no outsider intercession all virtual money clients can get the administrations. Notwithstanding, getting administrations of these digital currencies impacts on global relations and exchange, because of its excessive cost unpredictability. There are a few virtual monetary forms, for example, bitcoin, swell, ethereum, ethereum exemplary, light coin, and so on in our review, we particularly centered around a well-known digital money, i.e., bitcoin. From many sorts of virtual monetary forms, bitcoin has an extraordinary acknowledgment by various bodies like financial backers, scientists, brokers, and strategy creators. As far as we could possibly know, our objective is to carry out the effective profound learning-based forecast models explicitly long momentary memory (LSTM) and gated intermittent unit (GRU) to deal with the value unpredictability of bitcoin and to acquire high exactness. Our review includes looking at these double cross series profound learning strategies and demonstrated the viability in estimating the cost of bitcoin.

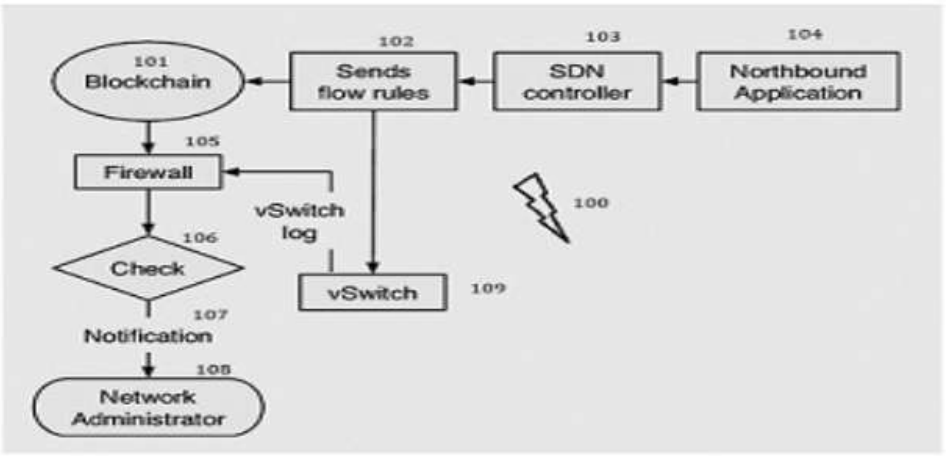


Fig.1: Bitcoin Price Quick Prediction Using AI, DL and ML, Flow Chart.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202121050510 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LISINOPRIL ION-PAIR TOPICAL GEL FOR IMPROVEMENT OF PERMEABILITY AND CARDIOVASCULAR DISEASES MANAGEMENT

(51) International classification	:A61K0009000000, A61K0009060000, C11D0001220000, C11D0001140000, C11D0001650000
(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 :
Reportedly, oral bioavailability of the lisinopril is 25 to 30%, assigned to its poor permeability. Hence, the aim of current investigation was to formulate transdermal ion-pair gel using permeation enhancer for enhanced delivery of lisinopril. Initially, formation of ion-pair is corroborated using Fourier Transform Infrared (FTIR) Spectroscopy, Differential Scanning Calorimetry (DSC), X-ray Diffraction (XRD), Zeta Potential, particle size analysis, Oil/Water partition coefficient study etc. Optimization of formulation was done using 32 factorial design. Total nine batches (F1-F9) were prepared and effect of propylene glycol (Xi) and carbopol 934 (X2) was systemically investigated on gel viscosity (Yi) and permeability through rabbit's skin at 8h (Y2). Propylene glycol exhibited non-significant ($p>0.05$) effect on both gel viscosity and skin permeability whereas carbopol 934 demonstrated significant ($p<0.05$) positive and negative effect on both respectively. Viscosity of all the lisinopril ion-pair gel (F1-F9) was ranging between 17.24 ± 2.16 Pa.s (Batch F9) to 7.54 ± 1.34 Pa.s (Batch F4). Ex-vivo permeability of all the prepared batches (F1-F9) across excised rabbit's skin was ranging between 85.93 ± 1.26% (Batch F4) to 62.17 ± 1.57% (Batch F9). Remarkably, optimized formulation (F4) exhibited 1.7 folds improvement in skin permeability than plain lisinopril gel. Conclusively, study demonstrated ion pair formation is a promising strategy for significantly improving the skin permeability of lisinopril.

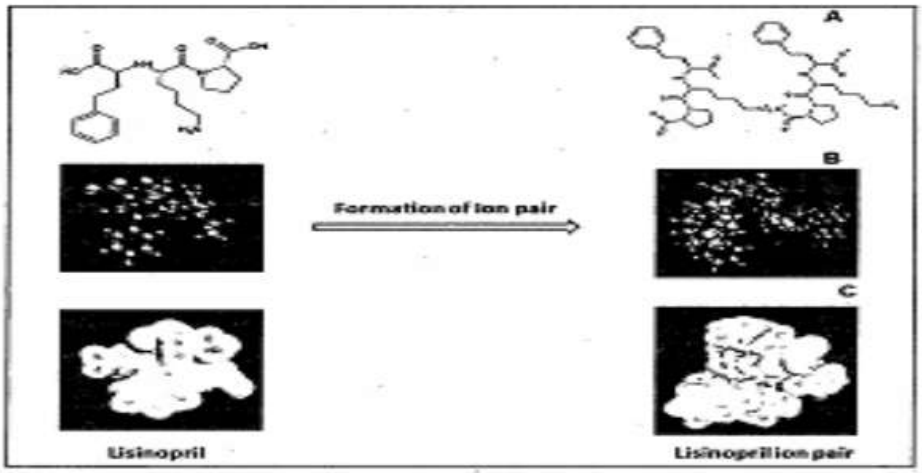


Figure 1: Formation of Lisinopril ion-pair, (A) 2D structure (B) ball and stick model and (C) space field model

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2021

(21) Application No.202121051511 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A DEVICE AND METHOD FOR ON-FIELD SOIL TESTING AND FEED CALCULATION

(51) International classification	:H04M0001725000, G01R0031360000, G16H0040670000, A01C0021000000, E02D0001020000
(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 device for on-field soil testing and feed calculation comprises a set of soil and air parameters measurement sensors (4-10) connected to the mobile device (2) via control unit (1) and the mobile device capable to upload recorded parameters on server (3) and access the calculated values of feed. A method for on-field soil testing and feed calculation gives a most effective and efficient way to use the said device to get the testing done, derive the values of estimated feed of nutrients and water and suggest suitable fertilisers and quantities to apply on crop. The process uses a unique ML algorithm for calculation of feed and giving suggestions. This invention is portable, com-paratively economical and effective; and successfully eradicates de-pendency of farmers over agricultural consultants for fertiliser sug-gestions.
Reference: Drawing 2

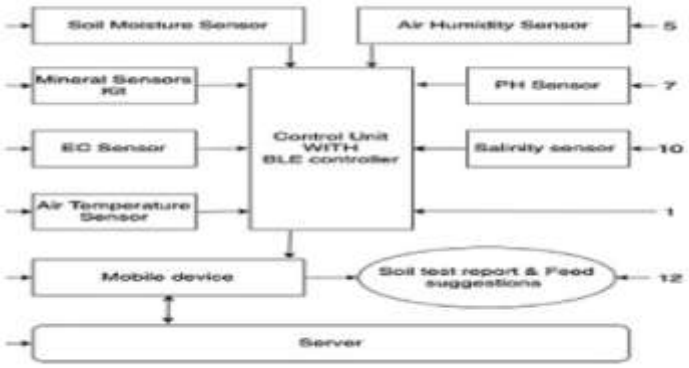


Figure 1

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/07/2019

(21) Application No.201941027804 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BENCH-SCALE TRAPEZOIDAL PHOTOCATALYIC REACTOR FOR HYDROGEN PRODUCTION USING CdZnS COATED IRON OXIDE CORE SHELL PARTICLES

(51) International classification :C09C0001240000, C12P0003000000, C09D0005320000, G11B0005706000, H01M0004360000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
NA

No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/07/2019

(21) Application No.201941027805 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WIFI INFO DISSEMINATOR

(51) International classification	:H04W0084120000, H04W0064000000, H01L0021560000, H01L0021683000, G11B0027320000
(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 WiFi Info Disseminator system focuses on considering the available infrastructure of any organization which presents digital information dissemination to a group or team of people. An authenticated wireless display system accessed, controlled and monitored by the admin anywhere and anytime with secured login credentials so that the information can be provided without the need of mobile phones within the group. (Refer Fig. 1 and 2)

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/10/2020

(21) Application No.202041045789 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SPEECH COMMUNICATION FOR APHASIA DISORDER (SCAD) USING MACHINE LEARNING TECHNIQUE

(51) International classification :A61B0005000000, A61B0005047600, G04G0013000000, C07D0231120000, G10L0025660000
(86) International Application No :NA
Filing Date :NA
(87) 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 Speech Communication for Aphasia Disorder (SCAD) using machine learning technique has been described in the present invention. The objective of the present invention is to design and develop a wearable device specifically used to treat persons affected with monolingual Aphasia disorder. The electroencephalogram (EEG) signals are pre-processed (101) using machine learning algorithms feature selection (102), patten recognition and classified (103) are carried out and words are recognized and send using speech synthesizer (104) to produce speech sound (105). With the extraction of EEG signals, the inner mind speech will be extracted as a collection of words which will be converted into a speech communication exactly what the person with monolingual Aphasia Disorder intends to speak.

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/10/2020

(21) Application No.202041047590 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A Portable Powered Blower for PAPR

(51) International classification :A62B0018000000, A62B0007100000, A62B0018080000, A62B0018020000, H04L0027260000
(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 design and development of a Powered Air Purifying Respirator (PAPR) to safeguard people who work at places with contaminated air, by providing filtered air is described in the present invention. In an aspect of the present invention, a battery powered portable blower for powered air purifying respirator (PAPR), that is designed to protect the health of a user by reducing the exposure of the user to harmful viruses and bacteria and to enable comfortable breathing. (Refer Fig. 1)

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

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

(21) Application No.202041048029 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR NAVIGATING AN AUTONOMOUS ENTITY THROUGH A NAVIGATION SPACE IN REAL TIME

(51) International classification :G05D0001020000, G01C0021360000, G05D0001100000, G01C0021340000, G01C0021200000
(86) International Application No :NA
Filing Date :NA
(87) 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 and system are provided for navigating an autonomous entity by using positioning sensors. Using the location information provided by the positing sensing unit, the absolute position unit and the absolute orientation unit provide an instantaneous absolute position and an absolute orientation. The navigation unit navigates between two points using a combination of line segments, each line seg-ment using a multi-stage navigation processes that include ramping- up a speed of the entity, performing a course correction on the entity to orient the entity along a predetermined path, performing a stabilization of navigation of the entity for align-ing the entity within a deviation limit from the predetermined path and ramping-down the speed of the entity and stopping navigation upon the entity reaching a pre-determined limit from a target location. Drive wheel control unit translates the cor-rection control signal from the navigation units to differential speeds applied on the drive wheels. [FIG.1]

No. of Pages : 56 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2020

(21) Application No.202041049762 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART ROBOTIC SELF STEERABLE WATERCRAFT

(51) International classification	:B63B0001120000, B63B0001040000, B63B0034100000, B63B0007020000, B63H0025460000
(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 :
Please see attached specification

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/12/2020

(21) Application No.202041052367 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING AN INSTANTANEOUS ABSOLUTE POSITION AND ORIENTATION OF AN ENTITY IN A NAVIGATION SPACE

(51) International classification :G01S0005160000, G06T0007730000, G01C0021160000, G01C0025000000, G01S0007400000
(86) International Application No :NA
Filing Date :NA
(87) 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 method and system for determining a refined absolute position and refined absolute orientation of an entity in a navigation space is provided. The system includes a plurality of sensors, a coarse absolute position and orientation estimation unit to determine a coarse absolute position and/or a coarse absolute orientation, of entity based on a position data captured by sensors at predefined frequency/interval, a relative position and orientation estimation unit to determine a relative position and/or a relative orientation, of the entity based on a set of data captured from sensors, a navigation guidance unit to provide and update unique attributes of the navigation space, and an analytics unit to determine a refined absolute position or a refined absolute orientation of the entity by fine tuning: the coarse absolute position based on relative position and the coarse absolute orientation based on relative orientation using the navigation map. [FIG. 1]

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/12/2020

(21) Application No.202041055641 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DRUG RESISTANCE OF TARGET STRAINS OF A PATHOGEN

(51) International classification	:C22C0014000000, C12Q0001689000, C12Q0001180000, C22C0021000000, C22C0027040000
(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 :
AS ATTACHED

No. of Pages : 26 No. of Claims : 15

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

(21) Application No.202141002336 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD BASED ON CONSTRAINT PRIORITIZED ROUTING IN WIRELESS MANETS

(51) International classification	:H04W0084180000, H04W0040100000, H04W0072120000, G06Q0050060000, H04L0012400000
(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 :
Method based on Constraint Prioritized Routing in Wireless MANETs ABSTRACT A method for routing based on constraint prioritization in wireless MANETs in improving..... overall network lifetime and novel experimental evaluation approach for testing the MANET. The method includes determining priority based on individual node and network constraints: energy of the node, energy of the network and bandwidth. The individual node priority is determined based on the remaining energy and the network priority is determined by a central node considering average energy in the network. The MANET can be operated in priority and non-priority modes as commanded by a central node. The node participation in priority mode in the MANET is optional. As the routing is a consequence of information to be communicated, the present invention relates the routing with the source of this information under network and node constraints.

No. of Pages : 20 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202141025403 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BIOMETRIC ATM USING GLCM ALGORITHM

(51) International classification :G06K0009000000, G06Q0020400000, G06F0021320000, G06Q0020380000, B60R0025250000
(86) International Application No :NA
Filing Date :NA
(87) 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 In the proposed method the both biometric type that is fingerprint and iris recognition is used. Finger and iris are unique for each and every person it will not be same for even twins. So, this type of biometric system will account safe and highly secure. In addition to that without the knowledge of primary holder the money cannot be withdrawn. Because the OTP is sent to the primary holder's phone only. The primary holder should share the OTP to the secondary holder then only the money will be withdrawn. This feature makes an extra advantage in security side. This system is based on Embedded system. In our proposed system, fingerprint authentication, iris recognition and OTP generation are done system. If an authorized person enters the room, his/her iris is recognized, if it matches then fingerprint checking is done and if it clears these two identifications, the screen shows account details, bio-data like Aadhar number etc. If unauthorized person is recognized, buzzer will be ON. Iris recognition is done by median filter and Fingerprint is implemented by edge detection algorithm. It also has an additional advantage having a secondary holder attached with the primary holders account who can use this account in the absence of the primary holder with the help of the OTP pin is generated to the primary account holders' number, so that the two parties are aware of the account information if the secondary holder is operating that account.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/07/2021

(21) Application No.202141033094 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BARRIER MASK FOR RESPIRATORY PANDEMICS

(51) International classification	:A62B0018020000, C07K0016100000, A61M0016080000, A62B0023020000, A61K0038170000
(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 :
Not Submitted

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/07/2021

(21) Application No.202141033371 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A MULTI-PURPOSE MANUALLY OPERATED LOAD CARRYING TROLLEY WITH SELF LOADING/UNLOADING FEATURE

(51) International classification :G06Q0050020000, A23L0033000000, A01B0069000000, B66F0009060000, B62B0001200000
(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 MULTI-PURPOSE MANUALLY OPERATED LOAD CARRYING TROLLEY WITH SELF LOADING/UNLOADING FEATURE Agriculture is the most important sector for the existence of mankind. Urban agriculture is an expanding segment, lots of senior citizen as well as women homemakers are engaged in setting up of nutrition garden. In agricultural farming, it is inevitable to carry heavy loads such as containers like, filled grow bags, clay pots, fertilizer packs, sprayers, harvested crops, garden garbage, loose sand, stones etc. At present, wheelbarrows are generally used for transporting heavy things in the nearby localities but it needs the manual loading and unloading of objects. In the long run, picking heavy objects by bending our back, may leads to the generation of back and knee joint pain. The present invention relates to a lifting trolley, in particular a wheeled trolley that incorporates a scissor-like assembly made up of two first class levers, which is a manually operated mechanical machine which effectively addresses these problems faced by farmers. The device can also find application in warehouses, building construction etc.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/09/2021

(21) Application No.202141039646 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A solar panel assembly with an autonomous cleaning unit

(51) International classification :H02S0040100000, F24S0040200000, B08B0001000000, B64G0001440000, 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 :
A solar panel assembly with an autonomous cleaning unit The present disclosure relates to the development of an improved solar panel assembly, with the cleaning attachment. The present invention further relates to the development and placement of a cleaning unit (310) on the improved solar panel assembly. Furthermore, the present invention relates to automatic cleaning of solar panels by means of the said cleaning unit (310).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/09/2021

(21) Application No.202141043182 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A TRAILER SYSTEM FOR CARRYING A LOAD

(51) International classification	:B60P0003100000, B62D0053000000, B60P0003420000, B62D0021200000, B60P0001640000
(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 TRAILER SYSTEM FOR CARRYING A LOAD The present disclosure relates to a trailer system (400) for carrying a load. The trailer system (400) comprising a front trailer part (100); a rear trailer part (200) configured to be interlocked to form a trailer system in combined configuration (400a), and capable of being separated to form a trailer system in separated configuration (400b); a telescopic frame (50) connected to the front trailer part (100); a wheeled chassis and a kingpin provided on the trailer part for facilitating attachment to a tractor vehicle; a sliding-bogie (150) with a coupler (70) and wheel attachment unit is provided on the front trailer part (100), configured to slide longitudinally along the said chassis. Advantageously, the length of the rear trailer part (200) can be adjusted longitudinally as desired. The shorter length of the rear trailer (200) allows more flexibility in last mile deliveries.

No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/09/2021

(21) Application No.202141043646 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SPLIT RINGS SUPPORTED BY INNER HEXAGONAL RING PATCH ANTENNA USEFUL FOR WIRELESS APPLICATIONS

(51) International classification	:H01Q0009040000, H04L0001000000, F16L0021080000, B60G0015060000, F16L0017040000
(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 recent motivations in antenna technology are highly appreciable in the field of communications as it improves the performance of the Communication system. The major design issues of antenna are wide bandwidth, multiple frequency operation, high gain and directivity, miniaturization. In order achieve the above needs of wireless communication system the electric and magnetic geometrical modelling of antennas is necessary. Conventional microstrip antennas have few limitations; such as narrow operating frequency, low impedance bandwidth, less gain, bulk size, and AR problems. The microstrip technology has good scope for various researchers to investigate on the applications at radio and microwave regime due to various methods like fractal, metamaterial, slots, DCS, Dielectric resonator techniques are supports micro strip Antenna design. This project aims to design and develop circular ring type patch antenna for wireless applications. The numerical simulation analysis will be carried out in High frequency Structural simulator Tool (HFSS).

No. of Pages : 12 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/10/2021

(21) Application No.202141045368 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADD ON ELECTRIC POWER TRAIN MECHANISM TO EXISTING GASOLINE (PETROL), C.V.T (CONTINUOUS VARIABLE

(51) International classification	:B60K0006400000, B60K0006260000, G06Q0050260000, B60W0010110000, G07C0005080000
(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 mechanism being patented here provides a hybrid functionality to C.V.T (continuous Variable Transmission) Gasoline (Petrol) Two-Wheeler/Three-Wheeler/Four-Wheeler by powering the said vehicles through Electric Power Train Mechanism. The mechanism when fixed on to any of the above said vehicles will enable these vehicles to operate in a minimum of the following three modes: 1. Pure Electric Mode 2. Pure Gasoline (Petrol) Mode 3. Dual Mode (Electric + Petrol) Mode. The above said mode can be Manually or Automatically Operated with the help of on-board computer (Control Unit). This Hybrid Kit would serve the purpose of riding primarily on electric mode in City Limits while it also provides a choice of switching over to petrol mode on Highways and also on Dual Mode whenever an additional torque is deemed necessary by the rider. The objective of this invention is to enable a rider to make use of Electric Hybrid kit Technology to fit on to existing Gasoline vehicle to decrease the cost of travel and, also decrease the pollution levels.

No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202141045589 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CALIBRATED TISSUE FORCEPS

(51) International classification :A61B0010020000, A61B0017340000, A61B0010040000, A61B0018140000, 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 :
Biopsy is a valuable tool in oral diagnosis, ll consists of obtaining a specimen of living tissue in order to study its structure microscopically. It is very helpful to confirm or deny a diagnosis and (o determine the nature and characteristics of the lesion to establish the final diagnosis. There are various types of biopsies. Among them, incisional biopsy is most commonly done in oral lesions. During this procedure, there are no instruments to measure the adequate (5mm) depth of the tissue to be incised. Insufficient sample results in non-specific diagnosis and additional biopsy procedure which results in discomfort to the patient. Henceforth, this calibrated tissue holding forceps will help to grasp the adequate amount of tissue to be incised during biopsy and may prevent the non-specific diagnosis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202141045590 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ORGANIC BEETROOT WINE LIP BALM

(51) International classification :A61Q0019000000, A61K0008920000, A45D0040000000, A45D0040160000, A45D0040020000
(86) International Application No :NA
Filing Date :NA
(87) 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 : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202141045591 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CUSTOMIZED SALIVA COLLECTING DEVICE

(51) International classification :A61B0010000000, A61K0038480000, A61K0009000000, A61K0038000000, A61J0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
Disclosed herein is single unit customized saliva collecting device which aids in the collection of submandibular and sublingual salivary glands. The device comprises of a wide mouthed transparent silicone cup of radius 5cm (A) and a small screw(B) attached with a transparent graduated 5ml dropper like cylindrical structure(C).The device is well described with a pictorial representation(Figuresl-5). It is a handy, simple and cost effective gland specific customized saliva collecting device which helps in collecting saliva from submandibular and sublingual glands.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2021

(21) Application No.202141045669 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MODEST REAL EMANCIPATION TACTICS FOR GLASSES

(51) International classification :B29L0031000000, B29K0705000000, B02C0019000000, B03B0009060000, C08J0011080000
(86) International Application No :NA
Filing Date :NA
(87) 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 global scenario demands the management of solid waste and its' importance prevailing the challenges especially in the use of Plastics, Glasses, Ceramics; Metals, etc. Recycling solid waste into reusable products is one of the best methods of managing solid waste such as removing wrappers pasted on the plastics/glass bottles in the food industry before they recycle those bottles either plastics or glasses. During-the recycling developments, the removal of synthetic glue and adhesive, applied over plastics/glass bottles, will be removed with the help of inorganic solvents while chelating compounds without any damages. Low concentrated chemicals are used forthis invention without bringing any damages for both foodstuffs arid human beings. Based on this research, it has been identified that the recycling process has low temperature maintenance, low processing time, low-cost process also for long term process and beneficial for businesses on industries.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046166 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED SYSTEM AND METHOD TO MONITOR CYBERBULLYING N SOCIAL MEDIA NETWORK

(51) International classification :H04L0012580000, H04L0029080000, H04W0004020000, G06Q0050000000, G06Q0010100000
(86) International Application No :NA
Filing Date :NA
(87) 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 provides an artificial intelligence based system to monitor cyberbullying and a method to identify the cyberbullying content in social media networks. The users (11, 12) are connected to a social media network (15) using interface devices (13, 14). A stalker server (21) is connected to the social media network (15) and said server (21) is connected to an artificial intelligence server (31) and authorized personnel (16) wherein said artificial intelligence server (31) monitors and identifies the cyberbullying content posting in said social media network.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046167 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MOBILE APPLICATION BASED IOT SYSTEM FOR INTEGRATED FARM

(51) International classification :G06Q0050020000, H04L0029080000, A01K0029000000, G06Q0010080000, A01G0025160000
(86) International Application No :NA
Filing 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 :
This invention employs sensory modules to monitor the various parameters of the farm including standing water level in cultivated land, well water level and weed growth through a mobile application. Temperature sensor is also incorporated in the barn to detect fire. The economy of the country heavily relies on animal husbandry for production of food and other products. It is easy to manage animals with technology employing sensors for monitoring them and their habitat. Here a mobile application based IoT system with sensors for monitoring integrated farms is presented. A set of sensors and a universal data acquisition system along with an IoT module for monitoring the stats of the farmland via a mobile application or/and website is presented here. IoT in agriculture uses robots, drones, remote sensors and computer imaging combined with continuously progressing machine learning and analytical tools for monitoring crops, surveying and mapping the fields and providing data to farmers for rational farm management plans to save both time and money. Precision Fanning, Livestock Monitoring, Monitor Climate Conditions and Computer imaging of Crop cycles are the goals of the futuristic version of this invention. Farming has seen a number of technological transformations in the last decades, becoming more industrialized and technology-driven. By using various smart agriculture gadgets, farmers have gained better control over the process of raising livestock and growing crops, making it more predictable and improving its efficiency. Data collected by smart agriculture sensors, e.g. weather conditions, soil quality, crops growth progress or cattles health can be used to track the state of your business in general as well as staff performance, equipment efficiency, etc. Better control over the internal processes and, as a result, lower production risks can be achieved by employing IoT in agriculture. The ability to foresee the output of your production allows the planning for a better product distribution. If the exact quantity of crops that are going to be harvested is known, the planning for selling all of them can be made and implemented.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046203 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PLAYER PERFORMANCE PATTERN DETECTION FOR INDIVIDUAL FIELD GAMES USING DEEP LEARNING

(51) International classification :G06N0003040000, G06N0003080000, G06K0009620000, G06K0009000000, G06N0003020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
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Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
Deep learning subset of machine learning is being an inspiring scientific computing technology in todays artificial world. Pattern recognition is thus implemented into deep learning technology to predict the performance of the player in the individual filed games through the statistical data collected prior as an input. This collected data can be feed through the deep learning algorithms to analyze and predict the performance of the payer in the game. Different types of neural networking can be exploited by the deep learning algorithms in-order to play a vital role in troubleshooting and solving major complex tasks which are equivalent to the human brain capability of sorting and effective decision making. In this proposed method we have utilized morion sensor for tracking the stroke and swing characteristics and Kalman filter to track and identify the object used in the paly and feed this data through deep learning algorithm Recurrent Neural Networks (RNNs) and LSTMs, to help in the pattern detection of the player performance in individual filed game.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046204 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COOPERATIVE DRIVING: VEHICLE TO VEHICLE COMMUNICATION

(51) International classification :G08G0001160000, G08G0001090000, G08G0001010000, H04B0001382200, G08G0001096700
(86) International Application No :NA
Filing 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 :
Vehicles are an important way of transportation all over the world. There are many cases of road accidents every day in the world. Commonly many road accidents are caused by collision between vehicles due to inability of the drivers to gauge the perimeter of their vehicles and other reason is unawareness of nearby vehicles. This study aims to propose a wireless communication that effectively transfers vehicles information within the vehicles surrounding. The vehicle information are broadcasted to the nearby vehicle and vice versa, this system has a vehicle information exchange system capable of identifying and disseminating vehicular details like vibration, steering rotation arid braking in the front panel. These messages are shared with the vehicle in the network whenever they met an abnormality or if they cross a pit or speed brakes or if there is sudden bending in the road. The result is to control the collision between the vehicles. ,

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046206 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN UNMANNED AERIAL ARDUCOPTER FOR MEDICAL APPLICATIONS

(51) International classification :B64C0039020000, G05D0001000000, G05D0001100000, G08G0005000000, H02J0007350000
(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 :
Nowadays, individuals are especially inspired by web-based shopping, items are required on time conveyance reason like birthday shock and it likewise conveyance sustenance items to clients without traffic issues. Because of this design is intended to do the assignment all the more successfully without human error, which will spare a lot of time, exertion and achievement. Delivery drones are unmanned aerial vehicles (UAVs) that can deliver lightweight packages. Drones generally use 4-8 propellers and rechargeable batteries to provide thrust and attach packages underneath the body of the drone. Delivery drones are operated autonomously or remotely, with operators potentially overseeing multiple drones at once. In several examples across the world, drones are being used for delivering time-sensitive items, such as medicine, or deliveries that would be difficult with traditional vehicle-based services. Delivery drones have the potential to change last-mile delivery economics for smaller and lighter packages as they could replace many deliveries currently made by traditional delivery vehicles. Advances in technology and diminishing expenses have prompted an expanded utilization of unmanned aerial vehicles (UAVs) by the military and citizen. The main objective of this paper is to create an autonomous Arducopter for product delivery through servo motor with the gripper to pick and drop in a specified location. This drone can also be used in other purposes like agriculture, military, disaster relief applications. The purpose of this DRONE is to increase safety by using an Ardupilot mega version 2.8 flight controller having an inbuilt microcontroller and it is interfaced with GPS Navigation. Also, to reduce noise in conventional drone noiseless propellers are being used. In addition, the Arducopter flight path is generated with the help of the Mission planner and Tower Software. With this, dual supply was provided with help of solar panel as well as battery. Therefore, the idea to designed this drone to do the task more effectively without human error and reach the location with the help of mobile application during an emergency situation or fast assistant. To propose the execution of a multipurpose drone system (MPDS). The MPDS is utilized for multi-administrations like nourishment, medicinal items, and so on. These Arducopter are intended for conveying the infusion, blood and other therapeutic things these are required in some crisis cases are all in urban regions and vacationer place which are situated a long way from medical clinics, they can reach in a simple way.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046208 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DROWSINESS DETECTION OF A DRIVER

(51) International classification :G08B0021060000, A61B0005180000, B60K0028060000, G06K0009000000, B60Q0009000000
(86) International Application No :NA
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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 :
Nowadays, Drowsiness while driving is a prevalent and serious public health issue that deserves attention. Recent studies estimate that around 20% of car crashes have been caused by drowsy drivers. Hence one of the main goals in the development of new advanced driver assistance systems is trustworthy drowsiness detection. In this paper, a drowsiness detection . method based on changes in the eye state and mouth state is proposed. This model includes warning systems for dangerously drowsy drivers. The model presented here is based on-a blink of an eye and opening of mouth state. A novel algorithm for drivers state of alertness monitoring through the identification of the fight against falling asleep has been validated. The proposed algorithm may be a valuable vehicle safety system to alert drowsiness while driving.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046209 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SYSTEM FOR FAST TRAVEL ACROSS LOCATIONS USING PNEUMATIC TECHNOLOGY

(51) International classification	:B01D0053620000, H04N0001000000, B60T0017220000, B61B0013000000, B60L0003120000
(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 :
There is no older or more proven efficient mode of transportation in our universe than what we are proposing. Our planet has been travelling in this direction for all of recorded history, and it has proven to be successful. During their lifetimes, the average person travels at least 300 billion kilometres in-orbit without using any fossil fuels. The proposed systems scientific principles are well-proven, with car-sized passenger wagons travelling through cylindrical tunnel tubes under controlled pneumatic pressure changes, ensuring fast, eco-friendly, less time-consuming travels.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046232 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NON-METAL EMBEDDED BI-METALLIC NANOSTRUCTURED MATERIALS FOR USE AS HIGH-PERFORMANCE ELECTROCATALYSTS

(51) International classification	:C01C0001040000, C25B0011040000, C12N0009100000, C22C0001040000, B01J0037160000
(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 electrochemical nitrogen reduction process can be considered an easy, green and sustainable technique for the production of ammonia. In order to use this process highly efficacious electrocatalysts are needed. In this patent, a one- pot chemical reduction method is proposed. This involves direct synthesis leading to the rapid formation of B-PdCu nanoscrubbers. In this process NaBl-Lj is used as reductant and dopant, while DMF solvent. B-PdCu nanoscrubbers exhibit excellent NRR performance characteristics: high yield 29.97 ug.rf.mg cat.; Faradaic efficiency -16.96% at - 0.3 V vs. RHE. This, study proposes a simplistic and scalable technique, that does not involve the use of any pollutants for the synthesis of nanoscrubbers with a metal/non-metal combination possessing an interconnected structure for the ammonia production. The increased catalytic activity and FE boron-combined PdCu bi-metallic nanoscrubbers are due to more active sites and excellent stability offered by NRR.

No. of Pages : 23 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046234 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WATER SUPPLY METERING SYSTEM FOR MULTI-STORIED BUILDINGS USING IOT

(51) International classification :G06Q0050060000, H04L0029080000, G05B0013020000, H02J0003000000, E04B0001350000
(86) International Application No :NA
Filing Date :NA
(87) 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 crisis of water in the recent days is kept on increasing all over the world. Due to increase in the population and lack of proper methods to utilize and conserve water and control its wastage, scarcity of water is an issue, particularly in places where the density of population is higher. Necessary Management and Conservation of water supply is needed in most of the Residential and Commercial Multistoried buildings. This proposal integrates multiple technological stacks to find a feasible solution for the problem stated above. Usually the main water channel from the overhead tank will be splitted into multiple sub channels as per the consumer size. The proposed idea is focused on monitoring the water flow level with the help of a flow sensor fitted in the sub channels. The purpose of the flow sensor is to measure the exact utilization of water in the main and sub channel pipe lines. Since the sensors are electronic devices the power and signal will be send and received with the help of a Controller unit located at the control room. The controller unit is responsible for processing the measured values received through different input pins. The Central Processing Unit (CPU) manipulates the water flow through the main pipe channel and different sub channels which are needed to identify the exact water consumption every day. The per day calculated values are accumulated day by day for a period of one month duration which is synchronized with an online calendar. Once we have the consumption details of individual Housing units the tariff process is initiated through automatic programing. The billing process is carried out based on the percentage of consumption out of the total water dispensed through the main pipe channel. When the billing process is completed the controller updates the tariff amount to every consumer through a mobile app using Internet of Things (IoT) platform. The consumer receives alert in the mobile app for the consumption details and amount to be paid for the utilization. Further the conservation of the water can be achieved by alerting the consumer when he exceeds the per day usage limit. This keeps the consumer to utilize the water within the margin values so as to avoid the additional penalty charges. This pays the way for awareness towards water conservation and leads to effective utilization of the water resource.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2021

(21) Application No.202141046236 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BIO FEED FOR AQUACULTURE

(51) International classification :A23K0010300000, A23L0033135000, A61K0035745000, A23K0050800000, A61B0005000000
(86) International Application No :NA
Filing Date :NA
(87) 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 a bio feed and a method for preparing the same for farmed aquatic animal. Said bio feed comprises of at least 2 - 5 % azolla pinnata, at least 3 - 6 % of spiurlina and probiotic bacteria. Said probiotic bacteria is preferably be bifidobacterium and lactobacillus. The method for preparing bio feed involves selection of raw materials and grinding of certain raw materials. Further, the bio feed is formulated by mixing of the raw material, boiling the mixture, filtering and forming into pellets. Said pellets are subjected to drying and fermentation and again drying.

No. of Pages : 15 No. of Claims : 6

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

(21) Application No.202141046418 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A PROCESS OF ISOLATION AND PURIFICATION OF AN ANTI-PROLIFERATIVE COMPOUND FROM STRIGA ANGUSTIFOLIA (

(51) International classification	:A61K0036800000, G01N0033940000, B01D0061580000, A61K0031045000, G01N0027620000
(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 study discloses a process for the isolation and purification of an organic disulfide compound from Striga angustifolia (D. Don) CJ. Saldanha (Orbanchaceae). The isolated compound, identified as 5,5'-Dithiobis(l-phenyI-, IH-tetrazole) (or) l-Phenyl-5-(2-(l-phenyl-lH-tetrazol-5yl)disulfanyl)-lH-tetrazole (IUPAC name) was described from a plant source for the first time. The process entails conventional analytical techniques including extraction, fractionation and purification with standardized parameters to obtain compound with higher purity and efficacy. The said compound assayed anti-proliferative effects on the tested cancer cell lines and showed better anti-cancer effects.

No. of Pages : 20 No. of Claims : 1

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

(21) Application No.202141046449 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CARBON NEUTRAL CONCRETE WALL PANEL

(51) International classification	:E04C0002380000, E04B0002860000, E04C0002040000, F17C0013000000, E06B0003180000
(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 construction industry uses 40% of the world's energy each year and emits around 33% of global greenhouse gas emissions, making it a major contributor to the greenhouse effect. It also offers a lot of potential in terms of saving energy and lowering greenhouse gas emissions. As a result, in order to alleviate the effects of global climate change, carbon emissions in the building industry must be deliberately regulated. The extensive use of prefabricated forms of modern building technologies is a popular trend, and it is also regarded a countermeasure against climate change, given the rapid expansion of high-rise buildings. Prefabricated buildings, as compared to traditional construction methods, are not only more efficient, high-quality, and low-cost, but they also efficiently reduce construction waste. The major design concepts of sustainable construction development have steadily become energy conservation and emission reduction. The degree of energy conservation and emission reduction, which are equally important for prefabricated structures to demonstrate advantages in sustainable development, is strongly related to the green degree during the construction period for prefabricated buildings. Therefore, the carbon emissions in concrete was effectively reduced by the usage of marble sludge powder and olivine sand as a partial replacement of fine aggregate in concrete which also enhances the properties of concrete wall panel.

No. of Pages : 10 No. of Claims : 3

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

(21) Application No.202141046455 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : RAIN SENSING AUTOMATIC CAR MONO WIPER USING IC-LM358 MICROCONTROLLER

(51) International classification :B60S0003000000, B60S0001080000, B60R0016030000, B60S0001340000, B61G0003160000
(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 :
Over the past few years the automotive industry has aggressively researched ways to develop systems for safety, to save humans life. Generally working of a car wiper is based on manual switching. In this case the driver has to switch ON the power button to turn on the wiper. It complicate things because the driver has to concentrate simultaneously on driving and wiper. With drivers exposed to increased distraction, automatic rain sensing wiper system becomes more appealing feature, as they eliminate the risk and distraction to turn on the wiper manually. In this wiper it has single wiper to wipe the whole windshield with umbrella technology and it's expandable with the adaptive nature and also automatic wiper system, a rain sensor, microcontroller IC-LM358 and a driver integrated circuit is used to convert manual operation into automatic operation. When water falls on the rain sensor, the sensor sends the signal to the microcontroller and then the microcontroller processes the data and energizes the driver IC to turn on the wiper. With these modifications automatic cleaning and mono wiping of the glass can be done without the involvement of the driver.

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

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

(21) Application No.202141046456 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : GHAT ROAD ALERTING SYSTEM

(51) International classification :F21Y0115100000, F21K0009232000, G01J0005000000, G01J0001420000, G01J0001320000
(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 :
Vehicle safety and safety for passengers in vehicle is a crucial parameter. Most of the vehicles get accidents are happened due to improper safety measures that are taken especially at curves and hairpin bends. In this project, the implementation of the Accident Prevention System in Hairpin bend road is aimed to reduce the risks of collisions at the hairpin bend on a hilly track, Ghats, or other zero visibility turns. This product can be used for the prevention of such a problem. It is used to prevent the accident, increased human survival and also all drivers are previously known about is there any vehicle are there in another side. The proposed system contains two IR proximity sensors, LEDs. It uses two IR sensors, which are placed on either side of the bend. The sensors are connected to Arduino UNO through jumper wires. The priority algorithm intelligently controls the movement of the vehicles at the bend supported the sensor values giving appropriate warnings on detection.

No. of Pages : 8 No. of Claims : 2

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

(21) Application No.202141046457 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART IRRIGATION SYSTEM USING IOT

(51) International classification :H04L0029080000, A01G0025090000, A01G0025160000, A01G0025060000, A01G0027000000
(86) International Application No :NA
Filing Date :NA
(87) 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 : 12 No. of Claims : 2

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

(21) Application No.202141046458 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DBMD FOR CLUSTERING AND BIG DATA MINING IN CLOUD COMPUTING

(51) International classification	:G06F0016350000, G06F0016245800, G06Q0050020000, H04L0012240000, 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 :
The essential tools to discover statistics from large statistics changed into matrix composition. Here facts generated via cutting-edge applications through cloud Computing, but, it's far nonetheless wasteful or infeasible to development very massive data the use of this type of device in a solo device or thorough virtual machines. Furthermore, big records are regularly dispersed accumulated information from a variety of facts centers and stored on distinct machines thru scheduling algorithms. For that reason, such records generally endure strong numerous noises. Its miles necessary and useful to make bigger distributed matrix decomposition for huge records analytics. Such a method is well measured, illustration the heterogeneous noise, and deal with the conversation difficulty in a distributed system. To this stop, we applied a disbursed Bayesian Matrix Decomposition version (DBMD) for massive information mining and clustering. Solely, we undertake three plan to implement the disbursed computing which includes 1) The accelerate Gradient Descent, 2) The Alternating path method of Multipliers (ADMM), and three) The Statistical Deduction. We take a look at the theoretical convergence behaviors of these methods. To address the heterogeneity of the noise, we advise a top of the line plug-in weighted fashionable that reduces the distinction of the estimation. Finally, assessment made among these strategies to apprehend the result between them.

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

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

(21) Application No.202141046459 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : EFFICIENT PRIORITY BASED TASK SCHEDULING IN VEHICULAR CLOUD COMPUTING

(51) International classification	:G06F0009480000, H04L0029080000, G06F0009500000, H04W0072120000, H04N0019436000
(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 :
Equipping smart devices with the vehicles provides multimedia based services and applications. When the vehicles move from one place to another, multiple users request access from the centra! server for the same images, video or audio. Consequently, more number of requests arises and this results in buffering problem for the users at remote location owing to poor network coverage. This issue allows the intruder to steal the data of users. To get rid of this buffering problem and to get the downloaded data any time task allocation algorithm system is used. This system provides better Quality of Service for the vehicular users from anywhere, any location, and from any device inexpensively. Efficient Priority based Scheduling Scheme is estimated based on the resource cost optimization in the Dot. net framework as well as response time of the service.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2021
(21) Application No.202141046644 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WORLD WIDE ALL BRAND SPLIT AIR CONDITIONER ADJUSTABLE INDOOR BRACKET & PLATE

(51) International classification	:F24F0013220000, F24F0001000300, B29C0048300000, F24F0011300000, F24F0013200000
(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 project required for all type model split A/c indoor fit piece missing and any damage and solution for this project.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2021

(21) Application No.202141046955 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : System and Method for Optimized Selection and Placement of Information Slots

(51) International classification :A61B0005107000, G06Q0030020000, B23P0019000000, H04L0029080000, 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 :
As uploaded herein

No. of Pages : 48 No. of Claims : 70

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2021

(21) Application No.202141047112 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ODOURLESS, MOSQUITO AND SCUM FREE BIOGAS PLANT HAVING A MIXING LEVER PRODUCING HIGH FLAME

(51) International classification	:C12M0001107000, C12M0001000000, C02F0003280000, C02F0001000000, C02F0003340000
(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 invention relates to a specially designed biogas plant 100 which is free from mosquitoes, odour and scum. This system has a 105 attached to 111 which can be rotated to prevent the scum formation inside the system. Further the entire system is concealed preventing the mosquitoes from laying eggs and prevents the bad odour. In this system the biogas formed is collected in 106 to produce high flame biogas. The system has 102 to input waste in to the system. Further the system has 103, 104 and 107 to regulate the slurry or gas inside. It is a highly economical system compared to other conventional systems.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141049961 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : QR CODE AND COIN-BASED AUTOMATIC FACE MASK VENDING MACHINE

(51) International classification	:A41D0013110000, A62B0023020000, A61K0008260000, A01N0025340000, A62B0018080000
(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 :
Masks have become the most commercial products of this period. On the one hand, the rapidly rising spread of the pandemic caused by Covid-19 has changed lifestyles. On the other hand, working people and people in essential services risk their lives to protect the country's economic growth and achieve their income to run their routine lives. Wearing masks to prevent this deadly virus becomes mandatory these days. Therefore, masks are essential to protect ourselves from the pandemic, at least not as a carrier of the virus which may affect the weak immune people. Keeping a mask with us creates practical difficulty, which can be eased with the availability of face mask vending machines in public places. The proposed machine vends the face mask preloaded based on the payment done through QR code or coin. This machine makes face masks accessible to all people in all public and crowded places with the help of technology and modern science.

No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141049970 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTONOMOUS MOBILE ROBOT FOR MATERIAL HANDLING USING PHOTOELECTRIC SENSORS

(51) International classification	:G05D0001020000, B62B0003000000, D01G0021000000, B25J0005000000, D01H0013320000
(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 the majority of the textile mills manual workers are used for locomotion from the process of Carding to Autoconer, the cotton is transported manually using trays and bins. To reduce the manual workers for transporting the processed cotton, a mobile robot is implemented in the textile mill. The main idea of this proposed work is to reduce manual human effort for transporting processed cotton between different process stages. The main objective of the project is to design and model an autonomous mobile robot for material handling in the textile industry. This reduces the workers for transportation of the cotton to the next process stage. These mobile robots are also used for warehouse goods movement. The workers who are manually transporting the processed cotton can be utilized in other fields. The mobile robot will be traveling by tracing the path of painted stripes. Hence the production and efficiency of the mill increase significantly. Also, the workers are no longer required for transporting the processed cotton.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141050023 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IOT SYSTEM BASED ON BLOCKCHAIN IN DOCUMENT MANAGEMENT SYSTEM FOR THE SECURITY ENHANCEMENT AND METHOD THEREOF

(51) International classification	:H04W0076140000, H04W0092180000, H04W0088100000, H04W0008000000, 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 :
[034] The present invention discloses an IoT system based on blockchain in document management system for the security enhancement and method thereof. The system includes, but not limited to, a plurality of mobile communication units adapted to D2D communication that is direct inter-terminal communication, a plurality of base stations adapted to perform predetermined wireless communication using a specific frequency band; a plurality of user terminals located in a plurality of cells of the base station. Each of the base station permits the user terminal to perform the D2D communication using the specific frequency band which is further evaluated by the Artificial Intelligence and machine learning interfaces during a period in which the predetermined wireless communication is stopped. Accompanied Drawing [FIG. 1]

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(54) Title of the invention : QUICK CYBER THREAT IDENTIFICATION AND NOTIFICATION USING DEEP LEARNING.

(51) International classification :H04L0029060000, G09B0019000000, G06N0005020000, G06N0003080000, G06N0005040000
(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
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Filing Date :NA

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(57) Abstract :
ABSTRACT Our Invention Quick Cyber Threat Identification and Notification Using Deep Learning is a processing setting, network protection is going through enormous changes in innovation and its activities lately, and information science is driving the change. Removing security episode examples or bits of knowledge from online protection information and building relating information driven model, is the way to make a security framework robotized and smart. To comprehend and investigate the real wonders with information, different logical strategies, AI methods, cycles, and frameworks are utilized, which is regularly known as information science. In this invention, we zero in and momentarily examine on network safety information science, where the information is being assembled from pertinent online protection sources, and the investigation supplement the most recent information driven examples for giving more viable security arrangements. The idea of network protection information science permits making the figuring system more significant and insightful when contrasted with conventional ones in the space of network safety. We then, at that point, examine and sum up various related exploration issues and future headings. Moreover, we give an AI based multifaceted system with the end goal of network safety displaying. In general, our objective isn't just to examine network safety information science and significant techniques yet in addition to concentrate the pertinence towards information driven savvy dynamic for shielding the frameworks from digital assaults.

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(43) Publication Date : 19/11/2021

(54) Title of the invention : DATA LINK BRIDGE (DLB): ALGORITHM FOR CONNECT THE LARGE DATA FROM CRYPTANALYSIS.

(51) International classification :H04L0029060000, H04L0009000000, H04L0009140000, H04L0009060000, G06F0021600000
(86) International Application No :NA
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Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT Our Invention Information Link Bridge (DLB): Algorithm for Connect the Large Data from Cryptanalysis is a The DLB estimation will take any data type and converts it into alphanumeric construction protecting the data type information from the attacker. The security assurance really remains a critical concern for the CC to move data to the cloud. The progress in advanced attacks and insider attacks are executing CC to scrutinize the capability of the current encryption computations being taken on. The current innovation attempts to make customers stick to appropriated capacity by introducing a coding-based encryption estimation named Data Link Bridge (DLB), which is executed on the client side. To protect the data from advanced intruder's distinctive security computation have been arranged and are being completed. Nevertheless, in light of the climb of advanced attacks and data thefts the on-line amassing providers similarly as the customers can't have all out certainty on the current computations as various o trim have been compromised and remaining have some security risks. Monster power attack is the ordinary risk for the entire class of encryption estimations, if the key is revealed, the entire security of the data is broken. To protect from the possible cryptanalysis, the proposed DLB computation has been arranged to not need any key for encryption however rather creates a key after the encoding framework as opposed to standard encryption estimations which need a key for encryption. The proposed DLB estimation ensures data security just as produces a lesser size of code in connection with other encryption computations achieving a faster data move to and fro from cloud laborers.

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(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141050116 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : EMOTION RECOGNITION AND NOTIFICATION USING MACHINE LEARNING AND AI.

(51) International classification :G06N0020000000, H04W0088120000, G10L0025630000, C07C0303400000, C12N0015740000
(86) International Application No :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT Our Invention Emotion Recognition and notification using Machine Learning and AI. Programmed is a feeling acknowledgment dependent on look is a fascinating examination field, which has introduced and applied in a few regions like security, wellbeing and in human machine interfaces. Scientists in this field are keen on creating procedures to decipher, code looks and concentrate these elements to have a superior forecast by PC. With the astounding accomplishment of profound learning, the various kinds of designs of this procedure are taken advantage of to accomplish a superior presentation. The reason for this development is to make a review on late chips away at programmed facial feeling acknowledgment FER through profound learning. We underline on these commitments treated, the design and the information bases utilized and we present the advancement made by looking at the proposed strategies and the outcomes acquired. The interest of this paper is to serve and guide analysts by audit ongoing works and giving experiences to make upgrades to this field.

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(54) Title of the invention : IMPROVED THE QUALITY OF SERVICES IN HOSPITAL

(51) International classification	:G06Q0050220000, G16H0040200000, G06Q0030020000, G06Q0010060000, G06Q0010100000
(86) International Application No Filing Date	:NA :NA
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(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
ABSTRACT Our Invention Improved the Quality of Services in Hospital is the reason for this review is to explore medical clinic administration quality and its impact on understanding fulfillment and conduct aim. A sum of 3350 surveys were appropriated and 3216 were returned. The outcomes affirm that the five measurements' affirmation, clinical benefit, in general help, release and social obligation are an unmistakable build for medical clinic administration quality. Each measurement has a critical relationship with medical clinic administration quality. The discoveries of this review show that the foundation of more significant levels of clinic administration quality will lead clients to have an undeniable degree of fulfillment and social goal. This examination inspected the idea of emergency clinic administration quality, patient fulfillment and conduct expectation according to the point of view of patients. Notwithstanding, this review didn't investigate the point of view of specialist co-ops. This is a constraint in however much it just thinks about the patients' view, which may be unique in relation to the suppliers' view. The outcomes demonstrate that supervisors should utilize the apparent help quality and consumer loyalty as components for leave system that will expand reliability among the current clients. This review will empower clinics to have a superior comprehension of the impacts of administration quality, which will prompt patient fulfillment and conduct aim to construct long haul associations with their patients.

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(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141050122 A
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(54) Title of the invention : NOVEL PREDICTIVE ANALYTICS ON MALWARE INVESTIGATION

(51) International classification :H04L0029060000, G06F0021560000, H04L0029080000, G06N0020000000, G06N0005040000
(86) International Application No :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
ABSTRACT Novel Predictive Analytics on Malware Investigation The present invention is related to a real-time detection of the virus using the emerging technologies Internet of Things and Artificial Intelligence. The objective of the present invention is to investigate on how to implement machine learning to malware detection in order to detection unknown malware. To develop malware detection software that implement machine learning to detect unknown malware. To validate that malware detection that implement machine learning will be able to achieve a high accuracy rate with low false positive rate. The training may include selecting one of the plurality of categories of training files, identifying features present in the training files in the selected category of training files, evaluating the identified features to determine the identified features most effective at distinguishing between malign and benign files, and building a category specific classifier based on the evaluated features. The security of networked IoT devices is quite challenging since the nature of devices is heterogeneous and the multidisciplinary IoT applications has variable contexts and dissimilar service requirements. The Next Generation IoT Firewall project intends to make progress in this new domain of active safety and research, whereby we will develop, refine and employ our novel ML and AI based algorithms to provide context aware security in IoT network. Efforts will be made to develop hybrid approaches for automatic vulnerability discovery in both small and large scale IoT networks with little or no human intervention. A novel IoT firewall solution will be developed in lowest possible cost based on the open-source tools that will help in providing the IoT networks and applications full proof security while ensuring its easy adaptability for different IoT system developers, service providers and device vendors. • Prevent – Put ML in line with zero delay update signatures. Prevent up to 95% of zero-day malware. • Detect – Extend the ML security analytics to IoT security. • Improve – ML-powered policy recommendations. Automate and simplify. Key factors of IoT ML firewall: • ML must be inline • ML must be both embedded and cloud based • Near real-time ML should make instant changes (as opposed to signature updates every X minutes) • Massive data collection is required for ML

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(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141050125 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULBERRY FRUIT COOKIES

(51) International classification :A61K0036605000, A23L0019000000, A21D0002360000, A61K0009140000, A23L0007104000
(86) International Application No :NA
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(54) Title of the invention : MULBERRY FRUIT BISCUITS

(51) International classification :A61K0036605000, A21D0002360000, A23L0007100000, A23L0019000000, A23L0005300000
(86) International Application No :NA
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Filing Date :NA

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(43) Publication Date : 19/11/2021

(54) Title of the invention : MULBERRY CHOCOLATE

(51) International classification	:A61K0036605000, A23L0019000000, A23K0010260000, A23C0009133000, A23G0003340000
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(57) Abstract :
APPLICANT: PROF. GANTA SAVITHRI, PROF. SUJATHAMMA PALLAMPALLI, DR. GUTTAPALAM SIREESHA, DR.NALLANAGULA RAJANI, DR.GALI.INDIRA PRIYADARSINI, DR. PALLAMPARTHI. NEERAJA AND GUNDABATHINA.BLESSY SWARANJALI TITLE: MULBERRY CHOCOLATE ABSTRACT The present invention discloses a process of preparation of Nutritionally rich Mulberries chocolate. The process of the present invention comprises of following steps; a. preparation of mulberry fruit powder comprises of cleaning, cutting and solar drying of matured mulberry fruits followed by grinding and sieving to form the mulberry fruit powder; b. mixing predetermined amounts of Cocoa powder with butter in a processor to form a paste followed by melting the said paste in a water bath to form a melted paste; c. adding predetermined amounts of milk powder, mulberry fruit powder, Vanilla essence and powdered sugar to the melted paste followed by mixing thoroughly, to form a lumps free batter and d. pouring the batter in molds and refrigerated followed by storing at predetermined temperature for predetermined time to form the Nutritionally rich Mulberries chocolate. The present invention also disclose a Nutritionally rich Mulberries chocolate prepared by the process described above.

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(54) Title of the invention : IOT AND BIG DATA BASED SMART HYDROPONIC FARMING WITH AQUACULTURE

(51) International classification :A01G0031020000, A01G0009140000, A01G0031060000, A01G0009240000, A01G0007040000

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(57) Abstract :
This soilless agriculture technique is utilized the water resources for plant growth then will be recycled to avoid the wastage of water. To motivate this concept, Aquaculture is combined with this technique for effectively use the resources of nature. The entire system is automated using the IoT framework; further, it will be controlled and monitored through a centralized controller. Aquaculture is the concept of using fishes to grow in a box of water or a glass bed in a small place. Implementing this structure along with a smart hydroponic system on horizontal or vertical frames can reduce the work and recycling process improves the sustainability of natural resources in an agriculture field. This research work will improve the growth of the plants and fishes count effectively, similarly their economy also grown in a small place of land. The entire system is implemented with Big Data analytics framework for maintaining the details of the Smart Hydroponic-Aquaculture Farming (SHAF) systems effectively.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141050172 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BIO-FUEL COMPOSITION AND METHOD FOR MANUFACTURE USING PYROLYSIS

(51) International classification :C10L0001020000, F02D0019060000, C11D0003200000, C11C0003000000, H01J0037280000
(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
Filing Date :NA
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(57) Abstract :
Using the current invention, a liquid bio-fuel combination may be created that includes biomass rapid pyrolysis liquid condensate, a biodiesel component, and a component of alcoholic alcohol. The liquid biofuel mixture exhibits a single phase under a scanning electron microscope (SEM). Methanol, a C3 to C10 alcohol, or a combination of two or more separate C1 to C10 alcohols may all be used as the alcohol component.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141050174 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN CLOUD COMPUTING ENABLED 5G WIRELESS SENSOR NETWORK COMPRISES IOT SENSOR FOR SMART CITY IMPLEMENTS

(51) International classification	:H04L0029080000, H04W0084180000, H04W0004700000, H04W0074080000, H04W0004380000
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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 :
The present invention relates to an IOT and cloud computing enabled 5g wireless sensor network for smart city implements wherein a virtual buffer nodes and machine learning are incorporated that make effects on energy distribution and efficient data transmission to the base station. Further in the preferred embodiment of present invention an adaptive Buffering with Fuzzy based Clustering (ABFC) in IoT based-sensor network has facilitated sensor nodes in 5 G IoT network to communicate easily with the base station with the introduction of buffer nodes. And machine learning implemented for smarter intelligence of the system. The decision based on the distance factor made by the selection of transmission through Cluster Head (CH) in fuzzy based clustering, has resulted in good energy distribution and improved the network lifetime.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :01/11/2021

(21) Application No.202141050175 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CONGESTION AVOIDANCE AND CONTROL IN 5G WIRELESS SENSOR NETWORK FOR CHAIN TOPOLOGY

(51) International classification :H04W0084180000, H04L0012801000, H04W0052020000, H04W0028020000, H04L0012835000
(86) International Application No :NA
Filing Date :NA
(87) 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 congestion avoidance and control in 5g wireless sensor network for chain topology. In Wireless Sensor Networks (WSNs) there are one or more sinks or base stations and many sensor nodes distributed over wide area. Sensor nodes have restricted power. Sensor nodes gather specific data and transmit gathered data to sink when a particular event is occurred. These sensor nodes can transmit large volume of data towards the sink. It can result in buffer overflow at the nodes. Hence there is congestion in the sensor network around the sink. Congestion in the network may cause packet drops and energy waste. Hence it shortens the lifetime of sensor nodes. So congestion in sensor network needs to be controlled to decrease the waste of energy and also to increase the lifetime of sensor nodes.

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202141050186 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FINE-GRAINED FISH CLASSIFICATION ON UNDERWATER IMAGES USING DEEP LEARNING ARCHITECTURES

(51) International classification :G06K0009620000, G06N0003040000, G06N0003080000, G06T0007000000, G06K0009660000
(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 :
Deep learning's arrival has benefited tremendous improvement in the area of FC research. Fine-grained fish classification is more complicated than conventional image classification because of low-quality and small-scale data. Convolutional neural networks (CNNs), well-known for their effectiveness, necessitate a significant volume of high-quality data over time. The proposed study addresses these two issues. First, the raw image quality was improved by an Underwater Image Enhanced Generative Adversarial Network (UIEGAN) trained on 6128 images from the ImageNet dataset by CycleGAN. Conventional data augmentation can help increase the dataset size by using traditional image transformations, but it cannot handle the imbalanced class problem. Synthetic images are generated for each species category using DCGAN to balance the dataset. Furthermore, two deep architectures, SmallerVGG and SmallerRESNET, were proposed as the best fit for the Croatian dataset. Again, the proposed method was tested against eight popular pre-trained transfer learning models trained on the ImageNet dataset. The experimental results show that the proposed techniques outperform well-known CNNs in terms of accuracy, demonstrating their potential applications in real-time underwater fish image classification.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202141050197 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DESIGN OF NOVEL ROTARY FLOW CONTROL VALVE FOR A GAS TURBINE FUEL INJECTION SYSTEM

(51) International classification :F02C0009260000, F02M0051060000, B23K0101040000, F23K0005140000, F02C0007047000
(86) International Application No :NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
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(57) Abstract :
A pulsing valve assembly pulses metered fuel flow to a turbine engine. The pulsing valve assembly comprises a valve housing having an inlet and an outlet. A divider valve divides metered fuel flow into a first flow portion and a second flow portion. A first actuator sets a magnitude of a flow divide between the first and second flow portions. The valve assembly also includes a pulsing valve for pulsing the first flow portion and a second actuator for setting the frequency of the pulsing valve. The pulsed and unpulsed flow portions are then joined and delivered to the turbine engine combustion chamber

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021
(21) Application No.202141050202 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IOT BASED SYSTEM FOR ALARM CLOCK HAVING TEMPERATURE MEASUREMENT FUNCTION AND METHOD THEREOF

(51) International classification	:H04L0029080000, G04G0013020000, H04L0009320000, G01D0021020000, A61B0005020000
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(57) Abstract :
[035] The present invention discloses an IoT based system for alarm clock having temperature measurement function and method thereof. The system includes, but not limited to, one or more processing units connected with an alarm clock in an IoT network and a desktop alarm clock module; and the alarm clock is provided with a display screen is installed on the front elevation, and multiple sets of buttons are arranged on one side of the display screen. Further, the processing unit is configured the temperature sensors for sensing the temperature in the room which has a range 3.3 to 6 of input voltage and it uses 5V TTL (Transistor–transistor logic) over only one wire and further provides for measuring the humidity (0 to 100%) accuracy of 2-5%. Accompanied Drawing [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202141050215 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : VIRTUAL SHOPPING FACILITATION MODULE ASSOCIATED WITH ROBOTIC CART AND AUGMENTED REALITY (AR) GLASSES

(51) International classification	:G06Q0030060000, G06F0003010000, H04L0029060000, G06T0019000000, G06Q0030020000
(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 VIRTUAL SHOPPING FACILITATION MODULE ASSOCIATED WITH ROBOTIC CART AND AUGMENTED REALITY (AR) GLASSES The disclosed method and system provides an approach for facilitating users in selecting items and/or products via virtual shopping by associating a robotic shopping cart and an augmented reality (AR) device with the users for enabling contact-less shopping. The disclosed system implements the method for receiving customer authentication data from a user and associating the customer authentication data with a tagged wearable device and a tagged mobility device with the user. The method further includes receiving an indication the user is wearing the tagged mobility device, and that the user is entering a shopping facility using the tagged mobility device. The method further includes receiving a user instruction to capture an image causing the tagged wearable device to capture the image, determining an item and transmitting an action instruction to the tagged mobility device to retrieve the item and secure the item.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202141050226 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A PROCESS FOR PREPARING MULTI-PARTICULATE PREPARATION OF PIRFENIDONE USING SPRAY-DRYING TECHNIQUE

(51) International classification :A61K0009160000, A61K0031441200, A61K0031441800, A61K0009500000, A61L0027540000
(86) International Application No :NA
Filing 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 :
A PROCESS FOR PREPARING MULTIPARTICULATE PREPARATION OF PIRFENIDONE USING SPRAY-DRYING TECHNIQUE A process for preparing multi-particulate preparation of pirfenidone using spray-drying technique relates to preparation of stable sustained release of multi-particulate preparation of pirfenidone with enhanced yield using spray-drying technique comprises of i) mixing the drug and a biodegradable polymer into an aprotic solvent and stirring the said mixture for 30 minutes in order to obtain a homogenous solution; ii) adding a phospholipid into the solution as obtained in step (i) through drop-wise manner; iii) subjecting the product as obtained into a spray dryer in order to achieve a particle wherein the said dryer includes nozzle (8), atomizer (7), feed system (2 & 3), aspirator (15), inlet unit (10) and outlet unit (11); iv) optionally adding an excipient into the particle as obtained in step (iii). Fig. 1

No. of Pages : 28 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202141050252 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IMPACT OF DIRECT MARKETING: CHALLENGES, BENEFITS AND FUTURE PROSPECTS

(51) International classification :G06Q0030020000, G06Q0010060000, H04L0029080000, H04N0021258000, H04N0021810000
(86) International Application No :NA
Filing 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 :
Impact of Direct Marketing: Challenges, Benefits and future prospects Abstract: Direct marketing allows you to communicate with your target audience in a timely and precise manner. In this investigation, we will look at the advantages and disadvantages of conducting direct marketing campaigns at work. According to the Direct Marketing Association, it is an interactive marketing to produce a measurable reaction. According to the DMA's official definition, direct marketing as having four distinct characteristics that distinguish it from other types of marketing. Direct marketing is distinguished from other types of marketing. Other types of advertising include television commercials and newspaper advertisements. In direct marketing, you must make a proposition. As a result, they can better target them. Direct marketing is distinct from other types of marketing in that it is quantifiable. Direct marketers can monitor how their offers are received. Because of the ability to track results, a wide range of lists, offers, media, and virtually every other aspect of a campaign can be tested. As a result, direct marketers can concentrate their efforts on the factors that have the most impact on their bottom line. Direct marketing includes postal mailings, magazine and newspaper ads. Direct marketing, due to its inherent flexibility, can provide both engagement and measurability while also taking advantage of new technological advancements. Finally, unlike traditional marketing, direct marketing transactions can occur anywhere. This can be done in a variety of settings, including the customer's own home or workplace. There is also the option of using the postal service. Outside of the home or office, it could occur at a convenience store or a kiosk. Although direct marketing encompasses all of these concepts, it must be distinguished from direct mail and mail-order companies.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202141050282 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR PREPARATION OF TRANSDERMAL DRUG DELIVERY SYSTEM WITH NATURAL BIOPOLYMER MATRIX

(51) International classification :A61K0009700000, A61K0036550000, A61K0031192000, A61K0047380000, A23L0033220000
(86) International Application No :NA
Filing Date :NA
(87) 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 PREPARATION OF TRANSDERMAL DRUG DELIVERY SYSTEM WITH NATURAL BIOPOLYMER MATRIX The present disclosure relates to a method of preparing of matrix-dispersion type transdermal drug delivery system using biopolymer derived from flaxseed Linum usitatissimum. Transdermal patches of naproxen sodium were prepared with flaxseed mucilage in combination with hydroxyl propyl methyl cellulose (HPMC). (FIG. 2 will be the reference figure)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021
(21) Application No.202141050289 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : THE DECISIVE ROLE OF THE HR FUNCTION, FROM A STRATEGIC PERSPECTIVE AND AS AN IMMEDIATE BENEFICIARY OF THE OUTPUT DATA

(51) International classification	:G06Q0010060000, G06Q0010100000, H01M0010440000, G06N0003000000, A63F0013822000
(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 :
[027] In companies and organizations, for everything relating to people and with a transversal approach, the HR function is naturally legitimate. Identifying everyone's contribution to lasting collective success is part of the function's natural evolution towards the role of strategic business partner. A function can only be strengthened by the place given to people in the success of leading companies (creativity, innovation, spirit of service) or by the social impact of digital transformation. The function is best placed to be this architect of people data, participating in the design of the organizational space, responsible for drawing up the map, there is an opportunity for coherence, gathering, and strategic positioning. It can legitimately take it on as long as it does not isolate itself in a soft skills approach of generic skills that ignores the specificities of each company, specificities often better marked with regard to products, markets or institutional image than at the level of people (with the exception of certain charismatic or media leaders), of whom it is however admitted that the latter make the major difference and are the source of it. Accompanied Drawing [FIG. 1]

No. of Pages : 28 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/11/2021

(21) Application No.202141050385 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : POLYMER ELECTRODES FOR BATTERIES

(51) International classification	:H01M0004620000, H01M0004360000, H01M0004600000, H01G0011380000, H01M0004580000
(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 :
One embodiment of the invention relates to an electrode material that includes a copolymer comprising a benzoquinone and a pyrrole; a conductive additive; and a binder. Another embodiment of the invention relates to a battery that include a cathode comprising the electrode material of the present invention.

No. of Pages : 31 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050400 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN AI & ML BASED SYSTEM FOR BUILDING ARCHITECTURE & MAP DESIGNING

(51) International classification :G06N0003040000, G06N0003080000, G06N0020000000, G06K0009620000, G06N0003020000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
Increasingly, computer-aided design (CAD) has benefited from the introduction of mass computation and programming concepts due to advancements in information technology (IT). Using the concept of creating with data, we started manipulating and interpreting data in design projects. Many disciplines have benefited from the use of Machine Learning and Artificial intelligence as a decision-making tools. It can examine and forecast massive volumes of data in the future. In machine learning, a model framework known as the Generative Adversarial Network (GAN) is used. It's built to learn from input data and produce similar or identical output data as a result. Image data is learned in pairs using Pix2pixHD, a customized version of GAN that produces new pictures depending on the input. The author used pix2pixHD to recognize and generate architectural drawings, color-coding rooms and then creating floor plans using two convolutional neural networks.

No. of Pages : 20 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050402 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MODEL OF AGILE TRANSFORMATION OF ORGANIZATIONS

(51) International classification	:G06F0021600000, C12Q0001686000, G06Q0030020000, H04M0003420000, G06Q0010100000
(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 :
[013] This work confirms that agile transformation is a key for organizations if they want to survive and be competitive in a current market full of constant change. Agility can be introduced in all parts of the organization, which is also recommended, because only in this way will it actually be successful and will bring better results to the organization, facilitate its operations and provide all the benefits that agility offers. Agility is an approach that needs to be constantly changed and adapted and does not have precise rules. At the beginning of the testing we set three hypotheses: • H1: We can establish an agile HRM in the organization. • H2: Agile HRM requires an agile HR manager. • H3: Agile HRM leads to increased performance in the organization. All the above hypotheses were confirmed. It is possible to establish an agile HRM in the organization. Organizations today need to be able to cope with changes from the environment that come quickly and are unpredictable. Accompanied Drawing [FIG. 1]

No. of Pages : 27 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050405 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : EFFECT OF STEEL ON REINFORCEMENT CORROSION

(51) International classification	:H01M0002020000, C04B0028020000, C08L0063000000, C04B0041500000, C04B0007520000
(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 :
[018] This work examines the category of specimens III, which includes 12 prismatic reinforced plaster specimens of dimensions 80 × 80 × 100 mm, with 4 steel reinforcements of concrete, either S220, or S400 or S500s, diameter 12 mm and height 100 mm, made with a constant ratio cement: fine castor: water 1: 3: 0.85. The S220 steels were smooth, while the S400 and S500s were neuro steels with prominent, embossed ribs. CEM II / B-M 32.5 cement was used and the specimens were coated with an inorganic coating based on white (Y coating).

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/11/2021

(21) Application No.202141050406 A

(43) Publication Date : 19/11/2021

(54) Title of the invention : DEVELOPMENT OF IOT BASED ACCIDENT DETECTION AND SMART TRAFFIC SIGNAL MONITORING

(51) International classification	:G08G0001010000, G08G0001095000, G08G0001087000, G08G0001096800, G08G0001096500
(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 :

Proper traffic management works to create the safe, orderly, and efficient movement of persons and goods, while also aiming to protect the quality of the local environment. A proper traffic control plan will help prevent motorists from being stuck in a traffic jam for hours on end. While all road work construction projects cause some disruptions to the normal traffic flow, the plan will help keep things moving smoothly, preventing long delay though rapid rise in technology made our life easier, put our life in risk. Increasing in demand of automobiles leads to increasing the traffic hazards and road accidents. The delay in reaching of the ambulance to the accident location and the traffic congestion in between accident location and hospital increases the chances of death of the victim. To overcome this problem our automatic ambulance rescue system should be used to avoid unnecessary death.

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(12) PATENT APPLICATION PUBLICATION
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(22) Date of filing of Application :03/11/2021

(21) Application No.202141050407 A
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(54) Title of the invention : AN AI BASED EV BATTERY CHARGING CONTROLLER WITH ENHANCED BATTERY MANAGEMENT

(51) International classification :G06N0020000000, H02J0007000000, G01R0031392000, H01M0010052500, H01M0010480000
(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
Filing Date :NA

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(57) Abstract :
Lithium-ion battery management is critical for a low-carbon future since it is used in electric cars and grid-scale energy storage. The materials utilized, the system architecture, and the operating circumstances all significantly impact how long these devices last. Because of this, controlling battery systems in the real world has proven difficult. New machine learning and Artificial intelligence approaches may be used to create a digital battery twin with recent improvements in understanding battery deterioration, modeling tools, and diagnostics. A battery's physical and digital embodiments interact closely in this cyber-physical system, allowing for better regulation and a longer lifespan.

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050456 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANALYSIS OF SKILLS, TOOLS AND DECISION-MAKING STYLES IN PRACTICE

(51) International classification :G06Q0010060000, A63F0003000000, G09B0019000000, G09B0007040000, G06Q0099000000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
Decision-making, whether managerial or done in everyday life, is a complex process that requires a thorough mapping of the situation, consideration of all possible options and an effort to think about the consequences. However, I don't think there is a purely bad decision. Firstly, because the determination of the correctness or wrongness of a decision is in some situations a subjective matter, and secondly, because in my opinion, even such a decision, which had a bad consequence for us, the company, for employees, can be take lessons for future solutions to a similar situation. We will already have some instructions on how to behave in such a situation, how to proceed in solving the problem. However, trial and error decision-making can also be a decision-making style for some. However, this is not possible in all situations, because the losses that an unfavorable decision could cause could be significant for us. Then we need to surround ourselves with the right people who will help us provide enough of the right information in time, we can rely on them. This is the role of the manager, to lead people, to manage, to motivate so that they achieve the best possible results. Because the results of the work team are, of course, also managerial results. The main goal of the work is to refute or confirm some hypotheses, theoretical views on the manager's decision-making and his role using a questionnaire survey among employees of a Power Plant.

No. of Pages : 29 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050485 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMPRESSED AND RECYCLED AIR ENGINE

(51) International classification :F03G0007080000, B60R0013080000, F03G0007100000, G01G0019020000, G06Q0010000000
(86) International Application No :NA
Filing 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 :
Abstract: The latest trend in the automotive industry is to develop light weight vehicles. Every automotive industry is looking to reduce the weight of the vehicle as it helps in the better handling of the vehicle and increases the efficiency of the vehicle. Today, the heavy vehicles are known for producing a large amount of harmful gases like CO2, SO2, and HC etc. Which act as the major source for Global warming. So research is going on to find a light weight vehicle which does not pollute the environment. One of the alternatives is the use of compressed air to generate power to run an automobile. Due to the unique and environmental friendly properties of air, it is considered as one of the future fuels which will run the vehicles. In this project an effort is made to the engine which is works based on compressed and recycled air.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050486 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : VISITORS DETECTION AND FACE RECOGNITION SYSTEM USING IOT TECHNOLOGY

(51) International classification	:G06K0009000000, G06Q0050100000, H04L0029060000, H04W0004120000, A61K0036730000
(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
Filing Date	:NA

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(57) Abstract :
ABSTRACT VISITORS DETECTION AND FACE RECOGNITION SYSTEM USING IOT TECHNOLOGY Web of Things is the snare of actual articles that contain the implanted innovation which is serving to foster man to machine or machine to machine correspondence. Security framework has become imperative in day to day existence. Face recognition is a vital with the end goal of reconnaissance and security. Thus there is a need for a practical framework. We will likely investigate the practicality of executing Raspberry Pi based face recognition framework utilizing customary face location. This paper targets taking face recognition to high security frameworks and structures. With the utilization of the Raspberry Pi unit, the framework savvy and simple to utilize, with elite execution. After recognizing the face, the regulator empowers the camera for catching the occasion, and alarms the client by setting the live video of that occasion on site page that is shown in android mobile. The design and improvement of a guests monitoring framework, in view of web of things innovation and picture catching innovation, to affirm guest personality and time just as date has been accounted for in this paper. This paper portrays about the execution and organization of IOT based security reconnaissance framework in structures utilizing Raspberry Pi single board with Wi-Fi network availability. The new innovation in guests observing framework gives security, wellbeing and agreeable life. That is the reason in the cutthroat climate and quick world, guests observing framework innovation is needed for each individual. This purposed guests observing framework gives savvy checking.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050487 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SECURE DATA SHARING IN CLOUD AND COMPUTING USING REVOCABLE STORAGE IDENTITY- BASED ENCRYPTION

(51) International classification	:H04L0009300000, H04L0009080000, G06F0021620000, H04L0009320000, H04L0029060000
(86) International Application No Filing Date	:NA :NA
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(57) Abstract :
ABSTRACT SECURE DATA SHARING IN CLOUD AND COMPUTING USING REVOCABLE STORAGE IDENTITY- BASED ENCRYPTION Cloud computing gives an adaptable and advantageous way for information sharing, which brings different advantages for both the general public furthermore, people. Yet, there exists a characteristic opposition for clients to straightforwardly re-appropriate the common information to the cloud server since the information frequently contain important data. Accordingly, it is important to put cryptographically upgraded admittance control on the common information. Identity based encryption is a promising crypto-graphical crude to fabricate a reasonable information sharing framework. In any case, access control is not static. That is, the point at which some client's approval is terminated, there ought to be an instrument that can eliminate him/her from the framework. Thusly, the disavowed client can't get to both the beforehand and hence shared information. To this end, we propose an idea called revocable-capacity personality based encryption (RS-IBE), which can give the forward/in reverse security of cipher text by presenting the functionalities of client denial and cipher text update all the while. Moreover, we present a substantial development of RS-IBE, and demonstrate its security in the characterized security model. The exhibition examinations show that the proposed RS-IBE conspire enjoys benefits as far as usefulness and proficiency, and along these lines is achievable for a useful and practical information sharing framework. At long last, we give execution consequences of the proposed plan to exhibit its practicability.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050499 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DOSE SETTING AND CORRECTING SYSTEM FOR A DISPENSING DEVICE

(51) International classification	:A61M0005315000, A61M0005310000, A61M0005200000, H01R0013240000, B25F0005000000
(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 feedback-enabled dose setting and correcting system for a dispensing device (102) is provided. The system includes a dose dial knob (108) including a protrusion (412), and a plunger (205) including a plunger body (206). The plunger body (206) includes a set of stopper columns (608A-D) each of which includes a set of non-flexible stoppers (610A-H, 614A-G, 618A-H, and 622A-H) and a set of flexible stoppers (612A-H, 616A-H, 620A-H, and 624A-I). The protrusion (412) is adapted to slide over one or more designated flexible stoppers selected from the flexible stoppers (612A-H, 616A-H, 620A-H, and 624A-I) when setting a desired dose and when correcting an incorrectly set dose to the desired dose. Siding of the protrusion (412) over each of the designated flexible stoppers generates a corresponding non-visual feedback that indicates one of an increment and a decrement of a dose of a material by a designated unit.

No. of Pages : 63 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050557 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR FACILE SYNTHESIZING HETEROSTRUCTURE NIO-SNO2 NANOCOMPOSITE FOR SELECTIVE ELECTROCHEMICAL DETERMINATION OF L-CYSTEINE

(51) International classification	:H01M0004360000, A61K0009107000, B01J0031300000, D21H0017200000, A61K0031198000
(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 :
METHOD FOR FACILE SYNTHESIZING OF HETEROSTRUCTURE NiO-SnO2 NANOCOMPOSITE FOR SELECTIVE ELECTROCHEMICAL DETERMINATION OF L-CYSTEINE Accordingly, embodiments herein disclose a method for facile synthesizing of heterostructure NiO-SnO2 nanocomposite for selective electrochemical determination of L-cysteine comprising the steps of: dissolving nickel chloride (NiCl2.6H2O) in 50 mL of distilled water under stirring at room temperature; adding 0.5 g of Polyvinylpyrrolidone (PVP) into the dissolved solution; adding, after stirring 5 min, 0.1 M of tin chloride into the above solution; adding 0.3 M of sodium hydroxide (NaOH) solution drop by drop into the stirred solution; removing the resultant colloidal solution from the stirred; and washing with distilled water, acetone and ethanol for several times; and then drying in an oven at 1600C for 12 h, after the stirring process; and obtaining the NiO-SnO2 powder for further characterizations. For the first time, the developed heterostructure NiO-SnO2/GCE modify electrode was used for determination of L-cysteine molecules. Figure Published with Abstract: Fig. 1(A) –(G)

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050604 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART MONITORING SYSTEM FOR PLANT GROWTH USING BOT AND CONTROLLING THROUGH IOT

(51) International classification	:A01G0009240000, A01G0009140000, H04L0029080000, G06Q0050020000, A01G0009180000
(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 agriculture sector plays an important role worldwide and in order to increase the productivity of this sector; monitoring and control of parameters for plant growth is required. The familiar phenomenon that helps to increase the yield of agriculture is the Greenhouse system. There is only greenhouse system that are developed to monitor and control the parameters like temperature and humidity. To overcome this issue, a novel Smart Monitoring System for Plant Growth using BOT and Controlling through IoT has been developed. In this proposed invention, monitoring of the parameters (temperature, humidity, solar radiation, soil texture) and control of data is implemented using Proportional Integral and Derivative (PID) controller. BOT is used to monitor and transmit the parameters to the farmer through IOT. The smart system also transplants agricultural crops/ plants from nursery/greenhouse system to the agricultural field using BOT.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050605 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A BIODEGRADABLE WRITING DEVICE AND A METHOD TO MANUFACTURE THE SAME

(51) International classification	:B65B0003000000, B65D0003220000, B05C0013020000, D21H0011140000, B23K0103100000
(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 (200) for manufacturing a biodegradable writing device is disclosed. The method includes cleaning a recycled paper collected from an external source (210); cutting the recycled paper collected into a predefined size (220); rolling a cut recycled paper in form of a barrel using a barrelling machine (230); pasting a rolled recycled paper of the barrel by applying an adhesive material using a gumming machine (240); coating an internal surface of the barrel with a water repellent material (250); trimming at least one end of the barrel using a bend grinder for integrating an adaptor (260); coupling a nozzle with the adaptor integrated at the at least one end of the barrel (270); filling ink into the barrel for enabling flow of the ink through the nozzle (280); fabricating a cap using a cap barrelling machine to protect the nozzle (290); assembling the barrel, the adaptor, the nozzle and the cap to manufacture the biodegradable writing device for facilitating writing (300). FIG. 3(a) -FIG.3(b)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050607 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ENHANCING QUALITY OF A TEACHING-LEARNING EXPERIENCE

(51) International classification	:G06Q0030060000, G06N0005040000, G06F0016930000, G10L0015320000, H01S0003067000
(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 to enhance quality of a teaching-learning experience is provided. The system includes a processing subsystem which includes an input module (40) which receives multimedia data. The processing subsystem also includes a monitoring module (50) which identifies first timeslot(s) when a responsive behavior is negative and monitors an attention level of the first user. The processing subsystem also includes a complex topic identification module (60) which tracks a timeline, identifies second timeslot(s) when a teaching-learning session is re-played for a count greater than a threshold re-play count value, and identifies complex topic(s). The processing subsystem also includes an interaction module (70) which generates a data set, generates a knowledge trained model using the data set, and builds an interactive digital assistant. The processing subsystem also includes a recommendation module (80) which builds a recommendation trained model and generates recommendation(s), thereby enhancing the quality of the teaching-learning experience. FIG. 1

No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/11/2021

(21) Application No.202141050672 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IOT BASED HEALTH MONITORING SYSTEM FOR PATIENTS AND ELDERLY PEOPLE

(51) International classification :A61B0005000000, A61B0005024000, A61B0005020500, A61B0005080000, A61B0005110000
(86) International Application No :NA
Filing 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 proposed system is based on smart health monitoring system, having a web-enabled integrated sensors, processors and communications hardware which can be used in home or in hospitals for monitoring the patients and providing useful information on time. This system helps in saving the life of individuals. The system can be used for identifying health condition through an app in a smartphone and alerts the supporters in case of emergency. The system comprises of a microcontroller unit such as Raspberry pi kit and Arduino that processes the input received by various sensors and communicates the information to the smart phones through server. Whenever the pulse rate, heart beat rate or temperature of the patient is abnormal and crosses the threshold value, the supporter of the patient is alerted and glow of an LED is enabled. Sensors are used for monitoring the health condition.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/11/2021

(21) Application No.202141050693 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PHYTOCHEMICAL ANALYSIS AND COMPREHENSIVE EVALUATION OF PHARMACOLOGICAL ACTIVITIES, ISOLATION AND CHARACTERIZATION OF BIOACTIVE COMPOUND FROM THE STERCULIA URENS

(51) International classification :A61K0036185000, A01N0065000000, B01D0011020000, B01D0011000000, C12R0001645000
(86) International Application No :NA
Filing Date :NA
(87) 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 process to evaluate phytochemical constituents by qualitative and quantitative analysis, pharmacological activities of different crude extracts from bark, roots and leaves of Sterculia urens Roxb. The process utilize preparative HPLC isolation and spectroscopic characterization of the bio-active phytochemical constituents, where different solvents such as hexane, ethyl acetate, methanol and water were used to prepare the crude extracts from the bark, roots and leaves using soxhlet extraction apparatus DPPH free radical scavenging assay (anti-oxidant), a-amylase inhibition assay (anti-diabetic), albumin denaturation assay (anti-inflamatory), blood clot lysis method (thrombolytic) and well diffusion method (antibacterial) were performed for the determination of pharmacological activities of the bark, roots and leaves extracts.

No. of Pages : 47 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/11/2021
(21) Application No.202141050694 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD TO DEVELOP KEVLAR ALUMINIUM EMBEDDED REINFORCED COMPOSITE MATERIAL

(51) International classification	:C22C0001040000, B64C0003180000, B64C0001120000, B64C0001060000, B32B0015080000
(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: A Method to develop Kevlar aluminium embedded reinforced composite material This is about to be a replacement for metal structural parts in aircraft automobile industries where aluminium alloys and other metals have been used as by-products. In this investigation, Kevlar-aluminium fibre reinforced sandwich laminates are fabricated and their properties such as impact strength, tensile strength and flexural strength are studied for their use in aircraft body parts as a replacement to aluminium alloy parts in aircraft body parts. And this tested composite is implied with the embedded sensors and circuits to analyse aggressive environment on the outside and give feedback in the form of heating or cooling. Through the investigation of the experimental analysis found that the property of Kevlar laminated aluminium composite will be suitable to replace the conventionally used aluminium.

No. of Pages : 15 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050704 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CHARGING METHOD FOR IMPROVING MILEAGE FOR ELECTRIC VEHICLE

(51) International classification	:H02J0007140000, H02J0007000000, H01M0002200000, H01M0010420000, H02J0009060000
(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 :
This Battery system while increase the Electric vehicle life and Mileage and it increase the Battery life and life cycle. And this system content Two Battery and one alternator (Specification of alternator and Battery will differ as per requirement).This circuit works with three switching Units one switch control the motor controller and another two are connected with Battery's for selection. When the Vehicle running motor controller connected with one Battery and same time another Battery get Charge from Alternator and this battery Switch's are interlocked with each other like at the same time we can't charge and Discharge the Battery (This Connection shows the Fig) . And Alternator connected with Motor. And alternator Power pass through the Isolation Transformer and Isolated Power converted with Rectifier Unit then it goes to charging unit. And charging condition controlled by Battery selection switches.

No. of Pages : 5 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202141050711 A
(19) INDIA
(22) Date of filing of Application :05/11/2021
(43) Publication Date : 19/11/2021

(54) Title of the invention : IMPACT OF THE EXISTING PAYROLL SYSTEM AND DEVELOPMENT OF COMPREHENSIVE NOVEL PAYROLL SYSTEM

(51) International classification :G06Q0010100000, G06Q0040000000, G06Q0050260000, G06Q0010060000, G06Q0020400000
(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 :
Impact of the existing Payroll System and development of comprehensive novel payroll system Abstract: Examine public servants' and payroll personnel's feelings about the government's current payroll system, and then make recommendations for improving it. As a second step, examine the current payroll system controls, as well as any potential flaws that could allow fraud to occur. An investigation into the payroll system has been launched. Design/methodology/approach Questionnaires will be distributed to departmental employees who will serve as study participants in order to collect data for this study. For this study, one government agency was chosen as a case study. This investigation concentrated on the payroll administration section, which is in charge of all payroll processes and administration for all employees. Findings According to research, the payroll system has adequate security and control measures. There is a risk of fraud as a result of systemic internal control flaws. It is critical to raise awareness of these issues in order to ensure that all employees are aware of and comprehend the system's control and security. The disadvantages and implications of research According to the report, an ineffective control mechanism in the payroll system may have contributed to the fraud. In-depth investigation can be used to both prevent fraud and make necessary corrections. This investigation was hampered by a small number of samples and limited access to vital records, making it difficult to carry out. Real-world Usability This study recommends strengthening many important internal control areas identified to better protect payroll spending in the government department's fraud fight. These include clearly defined roles, a more stringent approval process, and carefully guarded personnel information.

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(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050728 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COVID 19 DETECTION USING ADVANCED CNN

(51) International classification :G06N0003040000, G06K0009620000, G06N0003080000, G06T0007000000, G06K0009460000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
Corona virus disease 2019 (COVID-19) is an infectious disease that begins with flu-like symptoms. COVID-19 began in China and spread rapidly throughout the world. This disease usually results in Pneumonia. Due to the fact that pulmonary infections can be observed via radiography images. This proposal focuses on the detection of corona virus disease (COVID-19) based on Deep Transfer Learning (DTL) methods by analyzing Chest X-ray (CXR) images. The proposed DTL framework classifies CXR images as COVID-19 infected or normal images. Along with the custom CNN, four different pre-trained deep Convolution Neural Networks (CNNs) were used: Vgg-16, ResNet-50, InceptionV3, and MobileNet. The CNN models were trained using CXR datasets collected from open access provided by Kaggle and GitHub. In this study, the classification accuracy of Covid-19 and the normal image is 94%, and the AUC was 0.98. Pre-trained CNN models may be used to support radiologists invalidating their initial screening. This proposal studies deep learning approaches for automatically analyzing chest X-ray images to provide health professionals with precise tools for screening COVID-19.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050732 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ESTABLISHING COMMUNICATION BETWEEN COMPUTING DEVICES

(51) International classification	:H01Q0009040000, H04L0012580000, H04M0001725000, H04L0029060000, G02F0001010000
(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 :
Exemplary embodiments of the present disclosure are directed towards a method to establish communication between computing devices, comprising: Enabling a sender on a first computing device to send media files to a second computing device. Generating radio wave signals by the first computing device. Receiving the radio wave signals by a first modulating device located at the sender end. Modulating the radio wave signals by the first modulating device using a QAM technique. Passing the modulated radio wave signals through a power amplifier. Amplifying the modulated radio wave signals and emits amplified radio wave signal to a second modulating device at receiver's end. Demodulating the amplified radio wave signals by the second modulating device at the receiver's end thereby receiving the media files by the second computing device from the first computing device. Fig. 1

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(19) INDIA
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(21) Application No.202141050744 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IOT AND CLOUD BASED ENERGY HARVESTING TECHNIQUE FOR RAIL BY USING ZIGBEE COMMUNICATION

(51) International classification	:H04L0029080000, H04W0084180000, H02J0050000000, B61L0027000000, H04W0004380000
(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 :
IoT and Cloud based Energy harvesting technique for Rail by using Zigbee communication Abstract: To get power from the sensor nodes, we used a previously disclosed track-borne approach. A key feature of our solution is the incorporation of the Internet of Things (IoT) for global rail system condition monitoring. Reduce the cost of sensor node and power system maintenance as much as possible. By utilising railway track energy harvesting equipment that uses Zig-bee connectivity and the Internet of Things, we can access and monitor the energy harvesting method. This power harvesting approach can be used to generate the operational power required by the track break's sensors, and the details of that power can be transmitted via Zig-bee from one node to another via the track break. The sensor is attached to the rail track, which is the primary disadvantage of the current rural system; however, correcting this issue prevents us from providing the sensor with an operational supply via WPT (Wireless Power Transmission). To address this issue, wireless sensor networks are used to generate energy via a track-borne energy harvesting approach. Magnetic levitation will be used to transmit data at high speeds between Zigbee nodes in order to achieve broadband communication. This system, which will use a wireless sensor network, will primarily be used to monitor the state of the railway network. We'll use a variety of sensors to collect detailed information about the state of the railway for monitoring purposes.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
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(21) Application No.202141050750 A
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(54) Title of the invention : ENHANCED SECURITY FOR OPTIMIZED NATURE ALGORITHM TO SUSTAINTHE LIFETIME OF THE WIRELESS SENSOR NETWORKS

(51) International classification :H04W0084180000, H04W0052020000, H04W0040100000, H04W0004029000, H04W0040020000
(86) International Application No :NA
Filing Date :NA
(87) 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 wireless sensor network [WSN] is made up of a collection of nodes that form a network and is used to track environmental changes. Each node is capable of sensing and transmits the data to the base station. In recent years, designing a WSN was a challenging task for the researchers since it has a limited battery, memory, etc. Replacement of a battery will be a complicated task when it is deployed to unreachable locations. The WSN plays a major in all fields in this contemporary world especially where human intervention is not done. However the sensor nodes have short lifetime, limited battery memory etc. To enhance the lifetime of sensor nodes, there are different approaches that have been proposed which includes, firstly, nature algorithms like bat finding the prey using ultrasound frequency and velocity by this method each node will find the route to reach the destination and secondly balancing the energy of node by sending the data into two different path to reach the destination. The simulation shows better performance in a lifetime, number of rounds, and number of alive nodes.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050781 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A BLOCK CHAIN-BASED SYSTEM AND METHOD FOR PERSONAL IDENTITY VERIFICATION

(51) International classification :G06F0021320000, G06Q0020380000, G06F0021400000, G06F0021350000, G06Q0020400000
(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
Filing Date :NA

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(57) Abstract :
The present invention relates to a block chain-based system and method for personal identity verification. Wherein the verification addresses established on a block chain by associating identifiers with individuals having previously verified personal identities, assigning verification addresses on a block chain to the individuals, and recording identifiers and biometric data associated with the individuals at corresponding verification addresses. Following invention detail with the help of figures.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050782 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : RFID BASED VEHICLE IDENTIFICATION SYSTEM AND ACCESS CONTROL INTO PARKING

(51) International classification :B60L0053660000, G08G0001140000, G07B0015040000, G07F0017240000, B60L0053680000
(86) International Application No :NA
Filing Date :NA
(87) 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 RFID based vehicle identification system and access control into parking. It also provides an access control mechanism for the parking area by authorizing the vehicles using the RFID tags. The UID of the RFID tag will be stored in the database and will fetched every time the vehicle comes or wishes to come into the parking area. If the UID matches with the one stored against the vehicle information stored into the database, the vehicle will get an access into the parking area.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050794 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MICRO FLUIDIC DEVICE FOR THE GENERATION AND SCREENING OF COMBINATORIAL

(51) International classification :B01L0003000000, B01F0013000000, B01L0007000000, B01F0005040000, G01N0027327000
(86) International Application No :NA
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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 :
Microfluidic devices and methods for the generation and screening of combinatorial samples are discussed in this disclosure. At least one sample is injected into a sample channel via an immiscible phase channel and at least one sample inlet channel. The injection is controlled by at least one sample valve, resulting in at least one sample floating in the immiscible phase. The device includes a droplet maker connected to the immiscible phase channel and an immiscible phase channel.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050810 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WIN MOBI PORT CHARGER

(51) International classification	:H02J0007000000, H02J0007350000, H02S0040380000, H02S0010120000, H02J0007320000
(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 people usually run out of smartphone and computer charging at the same time as journy. At such times there is literally no manner of charging your phone pc in an outdoor surroundings. properly we hereby solve this hassle with a green energy gadget the use of a twin energy generator solar plus wind strength charging device for cell telephones and pc. The charging station is a transportable charging station so that it is able to be effortlessly moved with an anti-robbery feature to save you any theft or mischief with the charging station. The inexperienced electricity charging station gives a wide sort of capabilities such as: The gadget uses a battery to save the strength generated by means of both the electricity generators. This battery supply is now linked thru the inverter for utilization. The machine offers 2 varieties of outputs. four USB outputs for four x 5V DC cell charging ports and 1 x 230V AC port with cutting-edge predicament for charging laptops simplest. The system is equipped with 4 wheels for ease of movement making it very portable. it can without difficulty be used near bus stops, garden, historic monuments, zoo, university campus, corporate parks, footpaths, open parking and greater. The device is similarly equipped with anti-theft feature to save you robbers from robbing or miscreants from negative it. It instantly senses if it is being moved by means of unauthorized individual or is making an attempt to be damaged using effect sensors. cell phones have emerge as a maximum critical digital device in humans's each day lives. customers usually choose cellular telephones with superior era. however, there's a trouble to charge the telephone battery that's usually due to a strength supply problem while people are visiting to places where the software is not available. The battery nevertheless can not meet the growing strength demand due to the hastily growing functionalities and functions of the mobile telephones. Battery banks are used for charging but those batteries also have the confined ability and need the utility supply to be recharged. therefore, it is noticeably proper to lessen the dependency of the mobile telephone battery charging on the strength deliver through harvesting wind energy from the environment. So the cellular charging application is appropriate for the software of small scale wind strength generation.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050827 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : RESEARCH ON THE OPPORTUNITIES, MAJOR ISSUES, CHALLENGES, AND DEVELOPMENT OF THE INDIAN DAIRY SECTOR.

(51) International classification :G06Q0050020000, A23C0009142000, A23C0003030000, A23C0007040000, A23C0009152000
(86) International Application No :NA
Filing Date :NA
(87) 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 topics covered in this paper are the development of India's dairy sector since Operation Flood was launched, as well as the outstanding role played by dairy cooperatives in elevating India to the position of the world's largest milk producer. The paper furthermore discusses the potential future role of the private sector. Along with that, there are policy suggestions for how to keep the sector viable for the next decade. As the dairy industry grapples with current challenges, the authors offer policy recommendations to the government on how to ensure the sector's long-term viability, with the private sector playing an important role. The document is available in two languages: English and Espaol. The study emphasizes the significance of gathering information on the private sector's milk processing capacity. Only the cooperative sector's processing capacity will do for the time being as far as being reliable. This information is vital for the proper implementation of a government-designated fund for the expansion of the private sector's milk processing capacity. There's also a look at Indian dairy products' export potential, as well as policy suggestions for expanding the country's dairy export footprint. The dairy industry is critical to the livelihoods of millions of rural residents, mostly women. The dairy industry is critical to their livelihoods. This must be done in order to achieve the long term objective of tripling farmer income in the near future. Cattle farmers are struggling because, despite strong growth, they have failed to modernize their businesses. With frameworks like the SWOT Analysis and the Porter Five Force Model being used, an attempt has been made in this article to discuss various challenges the Indian dairy industry is currently facing.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2021

(21) Application No.202141050828 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEEP LEARNING BASED APPLE SWEETNESS MEASUREMENT BY IMAGE PROCESSING TECHNIQUE

(51) International classification	:G06N0003040000, G06N0003080000, G06K0009460000, G06K0009000000, 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 :
This study attempted to identify and classify the quality of apples using realworld photographs. Convolutional neural networks (CNNs) could be used to grade Apple quality in a novel way that was both accurate and quick to install. The proposed model's ability to capture unique, complicated, and useful image properties enabled image identification and categorization. The proposed model outperformed previous techniques when it came to learning high-order characteristics. To put the proposed model to the test, a training and validation model was created, with 99 percent and 98 percent accuracy at the 2590 and 3000 development steps. The proposed model's total accuracy was 95.33 percent, according to the results of a third-party test. The proposed model outperformed the Google Inception model and HOG. The proposed model has a lot of potential because it makes use of Apple's quality detection and categorization system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202141050852 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUTOMATIC ROTATING CIRCULAR DOUGH BOARD DRIVEN BY MANUAL ROLLING PIN

(51) International classification	:A21C0003020000, A21C0011000000, A21C0009080000, A63F0007060000, H01M0008048280
(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 envisages an apparatus for pressing a dough ball into a desired thick enough flat round disc by automatically rotating a circular dough board using mechanical power extracted from a manually operated rolling pin.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202141050866 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART STUDENT DATA MANAGEMENT DEVICE METHOD THEREOF

(51) International classification :G06Q0050200000, G06N0020000000, B07C0005342000, G06N0020200000, H04N0005222000
(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 :
ABSTRACT Smart Student Data Management Device Method Thereof Exemplary aspects of the present disclosure are directed towards the Smart Student Data Management Device Method Thereof consisting of Image Capturing System (ICS) 101, Central Monitoring Console (CMC) 102 communicate through a Wi-Fi Mesh network 103. The plurality of Image Capturing System (ICS) 101 consists of ESP camera 101a, wherein ESP camera 101a is a combination of microcontroller 101a-1 and camera 101a-2. Microcontroller 101a-1 is tweaked accordingly to support machine learning algorithms (MLA) for identifying students and marking attendance. Central Monitoring Console (CMC) 102 execute relevant machine learning algorithms (MLA) to predict the student's performance based on the information of students past and present academic performance and Students-attendance. Wherein academic performance of a student is a database compiled of semester internal and external grades and past attendance records. The predicted performance and attendance sent to stakeholders concerns.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202141050869 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD OF PREPARING METAL OXIDE NANOCOMPOSITE CATALYST FOR NITROGEN OXIDE REDUCTION

(51) International classification :C01F0007660000, B82Y0030000000, C01G0019000000, B01D0053940000, B22F0001020000
(86) International Application No :NA
Filing 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 :
Title: A Method of Preparing Metal oxide Nanocomposite catalyst for Nitrogen oxide reduction ABSTRACT A method 100 of preparing metal oxide nanocomposite catalyst for nitrogen oxide reduction comprising dissolving 110 a substantial amount of Copper sulphate pentahydrate (CuSO4.5H2O) in double distilled water to form a first solution, dissolving 120 a substantial amount of Aluminum nitrate nonahydrate Al(NO3)3•9H2O in double distilled water to form a second solution, adding 130 the second solution into the first solution dropwise under continuous stirring to form a final solution, adding 140 a substantial amount of sodium hydroxide solution to the final solution dropwise to attain desired pH, settling 150 the solution for a substantial time and decant excess water to obtain a precipitate, washing 160 the precipitate with double distilled water and filter the precipitate using a Whatman filter paper, and heating 170 the filtered precipitate at a substantial temperature for a substantial time and ground to obtain the metal oxide nanocomposite catalyst (CuO-Al2O3). < FIG.1>

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202141050872 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DESIGN OF INTELLIGENT COMMUNICATED DISTILLATION SYSTEM TO PURIFY WATER

(51) International classification :C02F0001140000, C02F0001000000, C02F0001040000, B01D0001000000, C02F0001020000
(86) International Application No :NA
Filing Date :NA
(87) 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: Design of intelligent communicated distillation system to purify water Water is a basic needfor survival ofhuman being across the globe.The contaminated water causes many diseases and ultimately decreases the life time of human beings. Hence there is a necessity to purify the water,even though many water purifiers are available, still it lacks intelligent decision during purification of water. Our aim is to design an intelligent communicated distillation system that can purify water from any source.This system is relatively cheap, portable, and energy efficient due to renewable solar energy. So, our goal is to efficiently produce clean drinkable water from solar energy conversion. Solar Distillation is an attractive process to produce portable water using free of cost solar energy. This energy is used directly for evaporating water inside a device usually termed a Solar Still. Solar stills are used in cases where rain, piped, or well water is impractical, such as in remote homes or during power outages.Distillation is one of many processes available for water purification, and sunlight is one of several forms of heat energy. To maintain standard PH values for purified water, it requires high coordination of intelligent decision and communication system. In this system, latest technologies such as IOT and Artificial Intelligence are incorporated. We designedIIOT Process unit that is used to monitor and maintain the PH values. IOT PH Unit is responsible for monitoring the PH Values and Intelligent PH Unit is responsible for trade-off in PH values to get a purified water at any time.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202141050896 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANALYSIS OF CAPITAL STRUCTURE ITS DETERMINANTS IN VARIOUS INDIAN COMPANIES

(51) International classification :G06Q0010100000, G06Q0010060000, G06Q0010040000, G06Q0040020000, C12N0007000000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
Analysis of Capital Structure Its Determinants in various Indian companies Abstract: The study's goal is to investigate the factors influencing capital structure in relation to the Indian government's Make in India initiative in order to better understand future financial decisions faced by Indian manufacturing companies. The data for this study came from the Centre for Monitoring Indian Economy's COSPI manufacturing index (CMIE). Our sample contains 1077 companies spanning the years 2000-01 to 2012-13, resulting in an uneven panel. As part of our research, we use system-GMM to investigate how various factors influence Indian firms' willingness to take on debt. As a result, according to the study's findings, characteristics such as profit margins and growth potential, distinctiveness may influence the selection of an ideal capital structure. We also find pecking theory and theory in Indian enterprises. As a result, the findings can be compared across multiple leverage proxies.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2021

(21) Application No.202141050898 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TUMOUR PREDICTION USING RADIOMICS ALGORITHM

(51) International classification :G06T0007000000, G06T0007110000, G06K0009620000, A61B0006000000, A61B0005000000
(86) International Application No :NA
Filing Date :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
A tumour prediction using radiomics algorithm has been described in the present invention. The present radiomic sequencer outperforms the state findings in brain tumor prediction, and furthermore provides prediction causal inference in the context of qualitative solution maps produced by the array of interpretable sensing neurons, which illustrate the sequencer's visual inspection for future observations. We develop a new end-to-end comprehensible diagnosis radiomics-driven brain tumor prediction paradigm. The conceptual radiomic sequencer, which has a framework made up of analyzable transcription cells, makes this framework possible. The rapid response models can be used to not only verify the theoretical radiomic sequencer's projections, but to also enhance radiologist-machine coordination for precise reporting. (Refer Fig. 1).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141050967 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MACHINE LEARNING BASED PRICE NEGOTIATOR E-COMMERCE CHATBOT SYSTEM

(51) International classification :G06Q0030060000, H04L0012580000, G06N0020000000, G06Q0030020000, G06N0003080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
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(57) Abstract :
Machine learning based Price negotiator E-commerce chatbot system Abstract: On the e-commerce website described in this study, artificial intelligence chat bots are used. This chatbot can help to simplify the price negotiation process on an e-commerce website. The chatbot communicates with the user using user-friendly language. This chatbot has been integrated into an online market website. This website sells a wide variety of products. It assists you in purchasing a product that meets your needs at a reduced price by utilising a chat bot. If you do not have enough money to purchase the item you desire, this service can be extremely beneficial. This benefits both the buyer and seller because it acts as a third-party mediator.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141050973 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DESIGN OF LOW-COST, HIGHLY SOPHISTICATED PIEZO, TRIBO, PIEZO-TRIBO HYBRID ELECTRIC CHARACTERIZATION INSTRUMENT

(51) International classification :G01K0001140000, G01N0021170000, G01D0021020000, G01N0033483000, G01N0021210000
(86) International Application No :NA
Filing Date :NA
(87) 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 provides a instrumentation technique to measure piezoelectric signals, where the conversion of rotatory motion to linear motion encased in static free cage provides the user to capture distinguishable signals without any extra vibrations (noise signals). In one embodiment, 12-watt D.C. motor converts the rotary or reciprocating motion to linear motion by providing sufficient impact on a flexible material sample. The controlled force received by the sample creates a temporal molecular vibration in structure, and thereby electrical signals are generated. The resulting generated signals are acquired and analyzed via custom User Interface (UI) of the measurement unit to distinguish the signals. FIG. 1 (for publication)

No. of Pages : 15 No. of Claims : 10

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

(21) Application No.202141051000 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : VEHICLE TRAFFIC CONTROL SYSTEM FOR DETECTING SIGNAL JUMP AND METHOD EMPLOYED THEREOF

(51) International classification	:G08G0001070000, G08G0001081000, G08G0001087000, G08G0001052000, B60Q0009000000
(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 :
Exemplary embodiments of the present disclosure are directed towards a vehicle traffic control system for detecting signal jump and method employed thereof. The system includes one or more traffic signals are signaling devices positioned at road intersections, whereby the signaling devices are configured to control flows of traffic at road intersections. An Arduino Uno connected to one or more traffic signals, whereby the Arduino Uno board is configured to turn into an input or output on the one or more traffic signals. A motor driver controller module connected to the Arduino Uno, whereby the motor driver controller module is configured to operate one or more gear motors and a shaft rod connected to the one or more tyre killers, whereby the shaft rod is configured to operate opening and closing of the one or more tyre killers, resulting in the one or more tyre killers for detecting signal jump at all cross roads. Fig. 1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141051010 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A HERBAL BATHING BAR AND A METHOD OF PREPARATION THEREOF

(51) International classification	:A61Q0019100000, H01R0107000000, H02K0003120000, F16H0055260000, A42B0001120000
(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 :
Complete specification is annexed herewith.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141051039 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTICRITERIA DECISION SUPPORT MODEL FOR PRIORITIZING ACTIONS AIMED AT INCREASING USER CONFIDENCE IN M-COMMERCE ENVIRONMENTS

(51) International classification :G06Q0010060000, G06Q0020320000, G06Q0040060000, G06Q0040000000, G06Q0030040000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
[08] Given the growing use of smartphones and tablets, investments in m-commerce become a good opportunity for increased sales and, consequently, more profitability for companies. However, for this investment to be successful, it is necessary to increase the degree of user confidence in the m-commerce environment of companies that invest in this type of sale (also known as real-time companies). Companies have been faced with several technological and organizational challenges in m-commerce that can, if not handled correctly, negatively influence users' trust and, consequently, keep these consumers away from using this platform. In this way, the organization that wants to invest in m-commerce needs to minimize or remedy the negative impacts that can drive the customer away from m-commerce. The proper use of Information Technology and Information Systems are essential to meet the organization's strategic objectives, as well as success in this virtual commerce environment. Thus, to minimize the problems that the challenges of the m-commerce environment impose and increase this degree of user confidence, companies are faced with the need to make improvements in the Information Technology sector. The impossibility of executing strategic actions in parallel imposes the need to prioritize actions, which is not always an easy task. In this context, this work sought to classify these challenges and present a multi-criteria model based on the additive model with veto for prioritizing the actions needed to improve this virtual commerce environment. This model seeks to minimize some inconveniences that may occur due to the compensatory effect of the traditional additive model. Accompanied Drawing [FIG. 1] & [FIG. 2]

No. of Pages : 24 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141051088 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MOTORCYCLE SIDE STAND FOR AUTOMATIC RETRIEVAL AND METHOD EMPLOYED THEREOF

(51) International classification :B62H0001020000, B62J0099000000, B41J0002185000, E21B0031180000, A47G0025140000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
Exemplary embodiments of the present disclosure are directed towards a motor cycle retrieving stand system for automatic stand retrieval, comprising; a gear rod 102 is configured to connect to a hook catcher 104 with a clutch wire 108. The hook 106 interlinked with the side stand 112; and the hook catcher 104 configured to unlock the hook 106 which is connected to the side stand 112, the hook catcher 104 unlocks the hook 106 with the help of the spring action when an user forgets to lift the side stand 112. Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141051103 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD AND SET-UP FOR CHARACTERIZATION OF TEMPERATURE DEPENDENCE OF IMPEDANCE, RELATIVE DIELECTRIC PERMITTIVITY, PIEZOELECTRIC COEFFICIENTS AND PYROCURRENT UNDER CONTROLLED GAS ENVIRONMENT

(51) International classification :G01N0033280000, G01R0027260000, C12M0001340000, G01N0027020000, G01R0027020000
(86) International Application No :NA
Filing 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 :
Applied materials research and testing requires measurements of fundamental materials properties (dielectric permittivity, pyrocurrent, impedance and piezoelectric coefficient) to be measured under non-ambient conditions and under controlled atmosphere. This requires simultaneous operation of multiple equipments, like measuring equipment for materials properties and controlled atmosphere for non-ambient conditions with computer controlled data collection and operation. The commercial set-up are either very expensive or do not meet technical requirements. Specifically, electromagnetic shielding in coaxial cables is not extended up to the device inside the non-ambient controlled environment. Here, cost-effective prototype measurement probe and measurement furnace with capability of 1000 °C and controlled gas atmosphere is provided. The set-up, when used with measuring equipment such as LCR meter or current source meter, can measure relative permittivity, piezoelectric coefficient, impedance and pyrocurrent up to a temperature of 1000 °C. The set-up is computer interfaced for automated data collection and temperature control.

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(12) PATENT APPLICATION PUBLICATION
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(22) Date of filing of Application :08/11/2021

(21) Application No.202141051117 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MACHINE LEARNING BASED DOCTOR APPOINTMENT WITH DISEASE PREDICTION

(51) International classification	:G06N0020000000, G06Q0050220000, G16B0040000000, G06Q0010000000, G16H0050200000
(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 MACHINE LEARNING BASED DOCTOR APPOINTMENT WITH DISEASE PREDICTION Public health management and its connected offices are pivotal for flourishing urban areas and social orders. The ideal use of wellbeing assets sets aside cash and time, yet most importantly, it saves valuable lives. It has become considerably more apparent in the present as the pandemic has overstretched the current clinical assets. Explicit to patient arrangement planning, the easygoing disposition of missing clinical arrangements (flake-out ups) may make serious harm a patient's wellbeing. In this paper, with the assistance of Machine Learning, we dissect diverse arrangement records to anticipate a patient's practices/qualities by utilizing distinctive AI calculations. For this reason, we previously removed significant provisions from crude information utilizing information cleaning. We applied Adaptive Synthetic Sampling Method (Adasyn), to adjust our information. After balancing, we applied machine-learning algorithms, using Support Vector Machine. Chikitsak is a scholarly expectation framework, which predicts a disease dependent on the data, or side effects entered into the framework and gives the exact results. We propose a moderate option in contrast to the traditional strategy, which settle dreary issues of planning a meeting with the specialists. The examination shows that rather than individual elements, consolidating various provisions assists make with bettering forecasts of a patient's appointment status.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141051121 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SELF-BALANCING OF ELECTRIC TWO-WHEELER USING GYROSCOPE

(51) International classification :B62K0011000000, G06F0030330000, G05D0001080000, A63H0030040000, F03G0003000000
(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
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(57) Abstract :
The development of gyroscopic design and simulation of a constructed two-wheeled self-balancing vehicle system is the focus of this invention. The electric powered vehicle is used for this work. The model is designed with the help of Solid works computer modelling software, once the design calculations are perfect in all aspects. The concept model has become a two-wheel vehicle under which spinning discs are bestowed as a gyroscope to generate counter balance force (gyroscopic effect) once the prototype of the vehicle loses equilibrium on either side. The engine, then, stabilizes itself. This invention also provides a brief description of the model vehicle built with an added function on similar grounds. Whereas when an external force is applied to the device, the force sensors mounted in the vehicle detects the force and produce a force of equal magnitude but in the reverse direction caused by the presence of two gyroscopes used throughout the vehicle, so the vehicle does not lose its balance even when the external force is applied to any of it.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141051133 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SPECFILM AND A METHOD FOR ITS PREPARATION

(51) International classification :H01R0004020000, B32B0027300000, B01L0003000000, G01N0021030000, G01J0003440000
(86) International Application No :NA
Filing Date :NA
(87) 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 relates to a specfilm and a method for its preparation. The specfilm of the present disclosure has a comparatively high optical transmittance, high tensile strength, and droplet retainability. The specfilm of the present disclosure has anti-wicking property and solvent compatible. The specfilm of the present disclosure can be used as an alternative to the microplates and cuvette during the spectral analysis.

No. of Pages : 47 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2021

(21) Application No.202141051135 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COLOUR CODED ARTIFICIAL TEETH FOR TOOTH PREPARATION

(51) International classification :A61C0013080000, A61C0005770000, A61C0013000000, A61C0005700000, A61K0006802000
(86) International Application No :NA
Filing Date :NA
(87) 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 :
APPLICANT: VISHNU DENTAL COLLEGE TITLE: COLOUR CODED ARTIFICIAL TEETH FOR TOOTH PREPARATION ABSTRACT The present invention discloses colour coded artificial tooth comprising of a tooth member having a root portion (110) and a crown portion (108). The crown portion (108) comprises of an outer layer (102), a middle layer (104) and an inner layer (106). The outer layer (102) is of a predetermined thickness and configured to designate the tooth structure to be removed during tooth preparation for restorative processes. Preparation ending in the outer layer (102), indicates insufficient reduction of the tooth. The middle layer (104) is of predetermined thickness and coloured in a first colour configured to designate ideal amount of reduction and desired contour on tooth to receive designated prosthesis. The preparation ending in the middle layer (104) indicates an ideally prepared tooth. The inner layer (106) coloured in a second colour is configured to designate excess reduction. By visually analyzing the allowable tooth reduction, the technical skills during preparation are improved. Fig. 1

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/06/2020

(21) Application No.202031026796 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTELLIGENT WATERBODY MANAGEMENT SYSTEM

(51) International classification	:B01F0003040000, A01K0067033000, G16H0050200000, C02F0001000000, G01N0033180000
(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)Mrutyunjaya Sahu
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(57) Abstract :
The current invention relates to an artificial intelligence, internet of things (IoT) based water body management system. The water body management system of the invention comprises of an aeration module, a nutrient dispensing module, and a sensor module which monitors and maintains water quality parameters. The artificial intelligence module configured with the sensor module trains the data obtained from the sensors and inputs to the aeration, nutrient dispensing or other modules. The current invention has applications in aquaculture management, management of water bodies like lakes, reservoirs and ponds.

No. of Pages : 37 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/01/2021

(21) Application No.202131003741 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : "SMART DRINKING WATER CONTAINER"

(51) International classification	:C02F0001000000, C02F0001280000, C02F0001440000, C02F0009000000, C02F0001500000
(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)Mr. Amit Neogie
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2)Dr. Sukanya Ghosh
(72)**Name of Inventor :**
1)Mr. Amit Neogie
2)Dr. Sukanya Ghosh

(57) Abstract :
The present invention relates to a portable smart container used to provide safe drinking water. Most preferably it relates to a smart container coupled with a coconut shell activated carbon filtering Cartridge and activated alumina with nano composite to reduce VOC , arsenic and fluoride wherein the purification of water is coupled with UVC sterilizing unit for disinfecting the water. The purified water retains the essential minerals viz Ca and Mg in a substantial amount. The device is embedded with a hydration tracker to remind users about their water intake.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/08/2021

(21) Application No.202131036858 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IMPROVED ELECTROMAGNETIC RADIATOR BASED ON INTEGRATION OF SECTORAL PLATES IN COAXIAL HORN ANTENNA

(51) International classification	:H01Q0013020000, H01Q0013080000, H01P0001260000, H01P0001060000, H01Q0019080000
(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)NATIONAL INSTITUTE OF TECHNOLOGY, PATNA
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(72)**Name of Inventor :**
1)VIKRAM KUMAR
2)SIVAVENKATESWARA RAO V.
3)PRADIP KUMAR JAIN

(57) Abstract :
The present invention provides an improved electromagnetic radiator (100), comprising of, at least one coaxial waveguide (1); at least one cylindrical horn antenna (6), at least one down-tapered inner conductor (7); at least four conducting plates (8, 9, 10, 11), wherein, the waveguide (1) includes an outer conductor (12) and an inner conductor (13), the down-tapered inner conductor (7) with said cylindrical horn antenna (6) forms a coaxial horn antenna having maximum gain at the axis of propagation, the conducting plates (8, 9) are fitted horizontally forming upper sectoral region and lower sectoral region in said coaxial horn antenna and said conducting plates (10, 11) are fitted to form two coaxial sectoral waveguides in the lower sectoral region, the improved electromagnetic radiator (100) is compact in size and achieves high power, high efficiency and offers reduction in axial length as well as lesser conductor losses and high gain at the axis of propagation.

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

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.202011011501 A

(19) INDIA

(22) Date of filing of Application :17/05/2020

(43) Publication Date : 19/11/2021

(54) Title of the invention : DISPOSABLE AIR FILTER FOR VEHICLES

(51) International classification	:A61L0009040000, G08G0001010000, G06F0001160000, H04W0004800000, H01M0010480000	(71)**Name of Applicant :** **1)RAI, Gaurav** Address of Applicant :D-259, Defence Colony, New Delhi – 110024, India. Delhi India (72)**Name of Inventor :** **1)RAI, Gaurav**
(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	

(57) Abstract :

The present disclosure relates to a disposable air filter adapted to be removably configured at inlet of an air conditioner of a vehicle. The disposable air filter includes a perforated sheet having antiviral and anti-bacterial properties. The perforated sheet is made of a fire- resistant material; and one or more filers configured at a first side of the perforated sheet, and the one or more filters comprises electrostatic and nanotech filter.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020

(21) Application No.202011019935 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PERFECT FIT & REUSABLE PROTECTIVE FACE MASK

(51) International classification	:A42B0003200000, A41D0013110000, A61Q0001020000, A62B0023020000, A61K0045060000
(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)HARI GOPALA KRISHNAN

(57) Abstract :
A - perfect fit and reusable protective face mask - is a personal protective equipment enabled to combat the spread of airborne diseases for everyone. Made of a pre-creased thin fabric pad the mask can be folded to shape. The fabric pad forbids airborne micro particles. like viruses, pathogens et al., pass through its tight mesh. An 'Elastic Shape Stabiliser' hooked to the folded mask, adjusts the mask folds along the facial contour of the wearer; easing in a perfect fit Further features like a protective barrier made of dry common salt (N aCl}, stretched across, within each sanitising chamber inhibit airborne viruses I pathogens passing through the said sanitising chambers. The wearer receives sanitised air to breathe from the breathing space connected to these sanitising chambers. Reversely the said arrangement also sanitises the exhaled air he breaths out, providing a two way sanitation to reduce the spread of airborne diseases in crowded environs. The mask has simple and detachable features that help to sanitize or wash it for reuse. All the parts can be made of earth friendly materials.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020

(21) Application No.202011019963 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SYSTEM FOR CREATION OF INDIAN LANGUAGE MNEMONICS FOR BLOCKCHAIN APPLICATIONS

(51) International classification	:H04L0009320000, H04L0009060000, G06F0021640000, H04L0029080000, H04N0007173000
(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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2)Rajeev Kanday

(57) Abstract :
The present invention is a system for creation of Indian language mnemonics for blockchain applications which an algorithm is used for creating a table known as MNEMOHI of unique mnemonic words using Hindi dictionary. The present invention uses PBKDF2 (Password-Based Key Derivation Function 2) function for the creation of Hindi mnemonic phrase consisting of 12-24 words chosen from the MNEMOHI and implement in BIP39 (Bitcoin Improvement Proposals). The present invention further increases the resistance of the wallet against dictionary attacks with increase in master seed entropy.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020

(21) Application No.202011019967 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN ANTIVIRAL FORMULATION

(51) International classification	:A61P0031120000, A61K0036355000, B01F0013100000, G01J0003460000, C07D0239540000
(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)Narenthira Prasath D
3)Himani Jerath
4)Rubiya Khursheed
5)Sanjana Challagundla

(57) Abstract :
The present invention is about an antiviral formulation for immunity boosting wherein the formulation is a combination of herbs mixed n water given with honey. The formulation is for immunity boosting to fight viral infections. The formulation is to be freshly prepared and consumed within the day for best results.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020

(21) Application No.202011019971 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AI-ASSISTED LIP PRINT RECOGNITION AND GENDER DETERMINATION

(51) International classification	:G06K0009000000, G06K0009620000, C12Q0001687900, H01R0031060000, G10L0017220000
(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)Ankush Manocha
3)Ekampreet Kaur
4)Neeta Raj Sharma
5)Ashwani Tiwari

(57) Abstract :
The present invention is an artificial intelligence assisted lip print recognition and gender determination which includes at least one remote server (202), a web front-end (203), a database (204), an Application Programming Interface (API), a 3D Convolution Neural Network (CNN), a computing device, a mobile application and an internet connectivity. In present invention, a request is sent to the server through API which further parse through the database for validation of user. The present invention uses the 3D CNN for viewpoint analysis and spatial features extraction. The present invention is applied to the field of forensic science and provides a solution for gender determination of the lip print obtained from the crime scene.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020

(21) Application No.202011019986 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYNERGISTIC EFFECT OF HERBAL PLANT EXTRACT AGAINST UROLITHIASIS

(51) International classification	:A61K0036530000, A61K0036185000, A61K0036746000, A61K0009500000, A61L0029140000
(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)Chetna Faujdar

(57) Abstract :
The present invention describes pharmaceutical herbal formulation and method of preparation of the formulation for Urolithiasis in the condition of kidney stone starts with the nucleation of crystals within the kidneys followed by its retention conditions. The herbal formulation of the present invention comprises Ocimum sanctum, Macrotyloma uniflorum and Bryophyllum pinnatum. The present invention helps to treat urolithiasis at its early stage of formation with minimal or no side effects. Along with treatment the herbal formulation also help to prevent the recurrence of the disease.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020

(21) Application No.202011020004 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WOUND HEALING DRESSING AND METHOD OF PREPARATION THEREOF

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000
(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)Veena Koul
3)Ahana Banerjee

(57) Abstract :
The present invention provides a hydrogel scaffold and wound healing dressing comprising natural polymeric biomaterials for the local delivery of an MMP-9 suppressor and growth factors to reduce infection and inflammation while assisting the healing process by maintaining the required growth factor concentration and increasing angiogenesis by prolonged expression of VEGF-A at the wound bed. A method of preparation of said wound healing dressing and a kit comprising the same is also provide

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020
(21) Application No.202011020075 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PREDICTIVE ANALYTICS SYSTEM AND METHOD FOR IMPLEMENTING MACHINE LEARNING MODELS INTO PREDICTION SYSTEMS

(51) International classification	:G06N0020000000, G06N0005040000, G06N0003040000, G06N0003080000, G06Q0050280000
(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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2)Kamisetty Yamini Preethi
3)Mohammed shafi Tarafdar
4)Poopesh Kumar Thangavel

(57) Abstract :
ABSTRACT OF THE DISCLOSURE A production system and method for integrating machine learning models. The system includes a Model Development System having machine learning models, which perform predictions on input data received by the machine learning model. The system includes a Prediction System that receives an input message and generates prediction results based on predictions performed on input data from the received input message. The system includes at least one machine learning model adapter. The machine learning model adapter loads a corresponding machine learning model from the Model Development System, and provides input data to the loaded machine learning model, in which the input data is based on the input message received by the Prediction System. The machine learning model adapter also receives prediction value results from the loaded machine learning model based on predictions performed by the loaded machine learning model, and sends the prediction value results to the Prediction System.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/05/2020

(21) Application No.202011020086 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FOOT OPERATED VALVE

(51) International classification	:F16K0031620000, E03C0001050000, A47K0013100000, A61C0001000000, G05G0001440000
(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)Bhupinder Pal Singh Anand

(57) Abstract :
The present invention discloses a compact, user-friendly, and water saving foot operated valve assembly, a foot operated valve mechanism wherein the pedal (1) is hinged (2) to the assembly. The pedal upon applying pressure by the foot pushes the said spindle (4) and allows the flow of water through the inlet (9), simultaneously discharging the liquid through the outlet (5) to the desired location or similar arrangement. The apparatus consists of (6) spring at the distal end to restore the position of pedal performing its intended function. The assembly consist of two O ring made of rubber to prevent the leakage of fluid from the front end. The said apparatus is compact in size, Easy to install, more convenient in pedal operation, Elegant looks, facilitates easy operation, Water saver and hygienic.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020103 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR DECTECTING AGAINST VIRUS INFECTION

(51) International classification	:A61B0005020000, G01R0029080000, A61B0003120000, G01R0031000000, G01R0031383500
(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)Tapan Kapoor
2)Neela Chavhan

(57) Abstract :
The present invention relates to the field of scanning health assessment in the view of viruses such as Severe acute respiratory syndrome (SARS) associate coronavirus or Covid-19. More specifically, a system and method for detecting /scanning the subject against the potential virus infection, with high accuracy and in short time.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020124 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A DEVICE FOR DISINFECTING AND/OR DECONTAMINATING PERSONAL PROTECTIVE EQUIPMENTS AND THE METHOD THEREOF

(51) International classification	:H05B0037020000, H05K0001030000, A61L0002060000, C02F0001020000, A61L0002240000
(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)Roy Johnson
2)Saha Bhaskar Prasad
3)Gadhe Padmanabham
4)Vempati Venkata Sundereswar Rao

(57) Abstract :
The invention discloses a device for disinfecting and/or decontaminating personal protective equipments comprising of a stainless-steel main Chamber (1) with closed top and bottom provided with a front door (2) that is hinged. A drive mechanism (4) on the top at the roof (5) of the chamber connects a shaft to a horizontal rod (11) with hooks and hangers (10) that rotates axially for hanging aprons, coats and other PPEs to be disinfected. A perforated sheet (6) and a steaming device (9) is positioned on the bottom of the chamber (1) and an air heater with motorized blower (3) provides hot air at a temperature of 150 to 180 oC to the chamber through the perforated sheet (6). A vent (7) is provided with a heater further disinfects the air at the exit. Instead of horizontal rod (11) with hooks and hangers (10) there can be rotating or fixed perforated trays (6) for disinfecting masks and gloves.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020149 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SCALABLE COMPACT DIGITAL-IN-CONCEPT COMPARATOR FOR ADC

(51) International classification	:H03M0001100000, G11C0027000000, H03M0001080000, H03M0001120000, H03K0005240000
(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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2)Dr. Alpana Agarwal

(57) Abstract :
The present invention relates to the system and apparatus for complementary metal-oxide-semiconductor (CMOS) analog comparator and, its application in analog-to-digital converter (ADC). The comparator uses digital gates to implement in the functionality of analog comparator thus, it is highly cost-effective, in terms of time and design efforts as an analog circuit is being designed digitally. The present invention consists of 2-input NAND and NOR gates, which are implemented in the functionality of analog voltage comparator. A static SR-latch is added to the output of the comparator with its inputs connected to V1 and V2 nodes. The SR-latch holds the output data until the next clock (CLK) edge comes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020190 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DOCUMENT PROCESSING USING HYBRID RULE-BASED ARTIFICIAL INTELLIGENCE (AI) MECHANISMS

(51) International classification	:G06Q0030040000, G06Q0010100000, G06F0017220000, G06Q0020100000, A61B0006000000
(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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3)KOTTHA, Samatha
4)CHHABRA, Shruti
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6)CHAKRABORTY, Debayan
7)T. V., Sreerekha
8)BHATT, Himani
9)NANDI, Amit
10)JUNEJA, Akanksha
11)MOHAPATRA, Soubhagya Ranjan
12)SHIVARAJAN, Ashok Kumar
13)BHAT, Kedar
14)SELVAMUTHUKUMARAN, Karthick

(57) Abstract :
A hybrid rule-based Artificial Intelligence (AI) document processing system 5 processes a non-editable document with at least one invoice to accurately extract data from tables in the invoices. The non-editable document is preprocessed for conversion into a markup format and pages including the invoice are identified. The invoice is processed via a document process by parsing the pages in different directions to generate a first set of predictions and via a block process wherein logical 10 information blocks from the invoice are processed to generate a second set of predictions. The missing entries from a selected table are identified by applying rules to the first set of predictions and the second set of predictions. Any discrepancy between the missing entry values between the first and second set of predictions are resolved and the resulting data is exported to downstream systems for further uses.

No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020
(21) Application No.202011020226 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : REINFORCED THERMALLY CONDUCTIVE POLYMER COMPOSITE

(51) International classification	:H01L0023367000, C09K0005140000, C08K0003040000, H01B0001240000, H01L0023373000
(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)DUTTA, Anindya
2)PUSTODE, Mangesh D
3)RAO, Bhaskar

(57) Abstract :
A thermally conductive polymer composite is disclosed. The composite includes a synthetic polymer (102), Graphite microparticles (106), Graphene nanoparticles (108), and a plurality of Aluminum flakes (104). The synthetic polymer (102) is extruded with a mixture of the Graphite microparticles (106), and Graphene nanoparticles (108) to form the thermally conductive polymer composite.

No. of Pages : 21 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020230 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD AND SYSTEM FOR INTELLIGENT CONTENT TRANSFER IN MESH NETWORK

(51) International classification	:H04W0084180000, H04W0040020000, G06F0016182000, H04W0076100000, H04N0021643000
(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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(72)**Name of Inventor :**
1)SINGH, Gurdev
2)SINGH, Deepanshu

(57) Abstract :
The present invention generally relates to a mesh network, and more particularly, relates to intelligently content transfer in the mesh network. Specifically, proposed framework will identify the bandwidth connection of mesh network. Initially, the gateway node will split the files into pieces according to bandwidth file splitting schemes are such that in a unit time, smaller chunk reaches to the distant node and a larger chunk reaches to nearer node. In next cycle, the file parts will move similarly. This will result in minimizing the delay for content to reach nodes.

No. of Pages : 66 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020231 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A DECONTAMINATION APPARATUS

(51) International classification	:A61Q0019000000, A61M0016060000, G06F0021600000, H04L0029060000, G08B0021240000
(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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(72)**Name of Inventor :**
1)Tushar R. Batham
2)Mohit Rithalia
3)Sunil Reddy Konatham
4)Parth Sarthi Pandey

(57) Abstract :
The present disclosure relates a decontamination apparatus (100,200) for mask (104,204). The decontamination apparatus (100,200) comprises a means of generating a disinfectant gas or vapour such as ozone using ozone lamp (105,205) which utilizes short-wavelength ultraviolet for generating ozone. The present disclosure also provides tray (103,203) adapted to hold the mask (104). The tray (103,203) is constructed 10 considering the complex and different shapes of mask (104,204) and provides uniform spreading of disinfectant. The present disclosure also related to an ozone reducer apparatus (106,206) in fluid flow communication with a chamber (102,202).

No. of Pages : 57 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020234 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SURVEILLANCE AND SANITIZATION USING UNMANNED AERIAL VEHICLES

(51) International classification	:B64C0039020000, B64D0047080000, G08B0021240000, G05D0001000000, H04N0007180000
(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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(72)**Name of Inventor :**
1)CHINTALA, Sandeep Kumar

(57) Abstract :
Systems and methods for performing surveillance and sanitization operations using unmanned aerial vehicles (UAVs) (102, 200) is disclosed. The UAV (102, 200) includes a light source (212) to emit ultra-violet (UV) rays and at least one first sensor (208) to detect objects in an area. The UAV (102, 200) also includes a processor (202) to obtain information about an operational area of the UAV (102, 200). The operational area is indicative of an area over which the UAV (102, 200) hovers. The processor (202) may determine absence of an object, such as a person or an animal, in the operational area. Based on the determination, the light source (212) may be activated to sanitize the operational area.

No. of Pages : 26 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020238 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TEMPLATE OF APPLICATOR DEVICE FOR ASSISTING BRACHYTHERAPY TREATMENT

(51) International classification	:A61N0005100000, A47G0025900000, A61B0006120000, A45D0040260000, B62D0015020000
(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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(72)**Name of Inventor :**
1)Susovan Banerjee
2)Venkatesan Kaliyaperumal
3)Dayanithi Kamaraj
4)Tejinder Kataria

(57) Abstract :
The present disclosure relates to a template [102] for an applicator device [100] for assisting a brachytherapy treatment for treating a tumor tissue in a cervix of a patient. The template [102] comprising a unary cylindrical block [108] defining a central tandem routing cavity [114] and a plurality of catheter routing cavities [116]. The plurality of catheter routing cavities [116] are suitably structured and arranged to route a plurality of catheters [106] towards the tumor tissue for performing brachytherapy treatment. The unary cylindrical block [108] defines an outer periphery within a range of 3 centimeter (cm) and 4 centimeter (cm) diameter. With such structure and arrangement, the template [102] is capable of being inserted into a vagina of a patient, while performing brachytherapy treatment thereon.

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020241 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SMART WALL MASONRY PANELS

(51) International classification	:E04B0001760000, E04B0002020000, E04F0013040000, E04F0013000000, E04B0001700000
(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)JAYAN PAUL

(57) Abstract :
A smart wall masonry panels SWMP system comprising two parts A and B which interlock together to form a non-load bearing masonry wall of a building envelope. The first part or PART A is an un-insulated high density masonry unit which forms the interior side of a wall. The density of the part A can vary between 1800 to 2200 kg/m3. The second part or PART B is a low density light weight thermally insulated masonry unit and forms an exterior side of the wall. The density of part B can vary between 160-240 kg/m3. The part A and part B are bonded together using mortar. Once the masonry panels are fixed as per manufacturer instructions, a layer of reinforcement mesh embedded in a base coat is applied. A finished render or paint is applied over the reinforcement to complete the wall. A method of manufacturing of parts A and B is also disclosed.

No. of Pages : 26 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020248 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A MOBILE UV TOWER AND SYSTEM THEREOF FOR SANITISING AN

(51) International classification	:C02F0001320000, A61L0002100000, A01G0025090000, A61L0002000000, A61L0002240000
(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)JAYAPRAKASH THAMBUSWAMY

(57) Abstract :
An ultra violet tower is disclosed herein that comprises a base and a light reflecting tower. The base comprises a power source, wherein the base has a width within a range between 5 inches and 19 inches. The light reflecting tower is erected above and fixed on the base, wherein the light reflecting tower comprises multiple bulbs that are powered by the power source to emit ultraviolet (UV) radiation for disinfection of surfaces.

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020251 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A GARBAGE ACCUMULATION VEHICLE WITH ENHANCED CAPACITY

(51) International classification	:B65F0001140000, B30B0009300000, H01Q0001320000, B65F0001160000, B02C0018000000
(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.GEETIKA MADAN PATEL

(57) Abstract :
The present invention relates to the garbage accumulation vehicle with enhanced capacity. Shredders are provided inside the vehicle cabin so that as soon as the waste is thrown inside the cabin it ise shredded and occupies less space. Thus the capacity and efficiency of the vehicle is increased.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/05/2020

(21) Application No.202011020253 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD OF IMPLEMENTATION OF FREE SPACE OPTICAL LINKS DURING ATMOSPHERIC TURBULENCE IN SATELLITE QUANTUM COMMUNICATION

(51) International classification	:H04L0009080000, H04B0010112000, H04B0010700000, H04B0010110000, H04B0007185000
(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)Dr. Vishal Sharma

(57) Abstract :
The present invention is made for implement free space optical links to satellite-based quantum communication using QKD protocols. To implement free space optical links, it is essential to study the effect of atmospheric turbulence. There are two specific attacks, namely PNS (photon number splitting) and IRUD (intercept-resend with unambiguous discrimination), which could bemain threats for future QKD-based satellite applications. The key generation rates and the error rates of the considered QKD protocols are presented. Other parameters such as optimum signal and decoy states mean photon numbers are calculated for each protocol and distance. Further, in SARG04 QKD protocol with two decoy states, the optimum signal-state mean photon number is independent of the link distance and is valid for the attacks considered here.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020267 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD FOR DEMOLDING LENS FROM GLASS MOLD ASSEMBLY

(51) International classification	:B29D0011000000, H01L0021321300, H01J0037147000, B29C0039240000, B29C0039440000
(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)S Balachandar

(57) Abstract :
A method related to the casting of plastic lenses of refractive index 1.56, and more specifically related to method for demolding the polymerized Convex Lenses from its glass-mold assembly. The proposed method provides suitable bulk demolding process of convex lens by reducing the per-batch process time in ultrasonic environment, and physical damage in molds which improves the shelf-life of the mold.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020
(21) Application No.202011020275 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AEROSOL CONTAINMENT APPARATUS

(51) International classification	:A61G0010000000, A61M0016040000, A61G0010020000, A61M0016000000, B25J0021020000
(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)Baljit Singh

(57) Abstract :
The present invention discloses an aerosol containment apparatus. The apparatus includes a tubular first base member (10a) and a tubular second base member (10b) spaced apart from the first base member and substantially parallel to the first member, whereby at least the second base member is coupled with a suction pump. The apparatus further includes at least a first member (20) being hollow and substantially U-shaped and extending between a first end (20a) and a second end (20b). The first end of the first member is attached to the first base member and the second end of the first member being attached to the second base member. Further, the first member includes plurality of holes (22) such that aerosols released from a patient positioned under the first member are received inside the first member and expelled out from the tubular base members.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020278 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A MARKING DEVICE

(51) International classification	:A61B0034000000, F04D0025160000, H04R0003000000, H04B0005000000, H04W0052400000
(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)KADYAN, Virender
3)AHUJA, Sachin
4)GARG, Pranav

(57) Abstract :
The present disclosure pertains to a marking device 100 for E presentations. The device 100 includes a set of input units 102 configured to detect one or more operations associated with a user, and correspondingly generate a first set of signals. A control unit 106 operatively coupled with the set of input units 102 , and configured to extract a second set of signals from the first set of signals, where the second set of signals pertain to selection of one or more modes. A set of output units 104 operatively coupled with the control unit 106 , where at least one output unit from the set of output units 104 is configured to operate in at least one mode among the selected one or more modes based on the extracted second set of signals. The device 100 includes at least one input unit which is detachable. The device is portable and multifunctional.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020291 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HOPPER AND MOISTURE REMOVING DEVICE FOR A HEAT TREATMENT FURNACE

(51) International classification	:H01M0008041190, H01L0021670000, F27B0009160000, F27B0009220000, F27B0009040000
(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)YANG, YUNG-CHI

(57) Abstract :
A hopper and moisture removing device (100) for a heat treatment furnace (200) includes a hopper (10) connected to a furnace body (210) and below a workpiece dropping port (211) and having a workpiece receiving space (113) for receiving workpieces dropping therein, and a plurality of moisture exhaust ports (121, 131) spaced apart from each other and in fluid communication with the workpiece receiving space (113). A piping unit (30) is connected between a moisture extracting unit (20) and each moisture exhaust port (121, 131) to permit moisture fluid in the workpiece receiving space (113) to be extracted out by operation of the moisture extracting unit (20) through the moisture exhaust ports (121, 131) and the piping unit (30).

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020299 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN ECOFRIENDLY COMPACT SOLAR PANEL FOR GENERATING ELECTRICITY AND WATER PURIFICATION

(51) International classification	:F24S0010750000, H02S0040440000, H01L0031052000, C02F0001480000, F24F0005000000
(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)SHIVAM AGGARWAL

(57) Abstract :
In the present invention, an efficient, compact utility model of solar panel has been disclosed, which can simultaneously generate electricity and can purify/treat water for drinking/household purposes in one simple and unique setup. The X-Mas tree is like a solar panel, wrapped around by copper wire providing sunlight to every solar cell that is present on its outer surface. The liquid that passes through these copper pipes can either contain water containing powdered forms of silver, copper, or any other high thermal conductivity material which can increase the heat transfer rate. Also any thermally expandable gases (like nitrogen, hydrogen and oxygen) which can expand when heated can help in producing electricity with the turbine and with the help of steam turbines, it can generate electricity. And at the same time with the help of a tube and shell heat exchanger when it releases the extra heat, it can purify the whole water system.

No. of Pages : 27 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020
(21) Application No.202011020337 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PROCESS FOR POLYMERIZING FLUOROMONOMERS USING A COMBINATION OF FLUORINATED AND NON-FLUORINATED SURFACTANT

(51) International classification	:C08F0214220000, C08F0014180000, H01M0008103000, C08L0027160000, B01F0007000000
(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)KUMAR, Gaurav
3)RAO, P.S.
4)SONI, Navin
5)BHATTACHARYA, B.S.
6)DUTTA, Anamika
7)PATEL, Anand Mohan

(57) Abstract :
The present invention discloses a process for polymerizing fluoromonomers in an aqueous medium to form a fluoropolymer, said process comprising the steps of: (a) forming an aqueous solution comprising a first surfactant combination of at least one fluorinated surfactant and at least one non- 10 fluorinated surfactant in a polymerization reactor; (b) pressurizing the polymerization reactor with said fluoromonomers; (c) initiating a polymerization reaction of said fluoromonomers to form said fluoropolymer; (d) propagation of said polymerization reaction, wherein a second surfactant combination of at least one fluorinated surfactant and at least one non-fluorinated surfactant is 15 metered or one shot dosed into the polymerization reactor; and (e) termination of said polymerization reaction after consumption of a desired quantity of said fluoromonomers.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020344 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : POLY RIBONUCLEOTIDE SEQUENCE [(TAG)7 C2] AS TYPE IV COLLAGENASE NATURAL INHIBITOR

(51) International classification	:G01N0033680000, C12Q0001680000, G11B0027280000, H04N0005140000, C07K0014810000
(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)Prof. Vibha Rani

(57) Abstract :
The present invention is related to the Molecular therapeutics, which is a tissue inhibitor of metalloproteases and characterized to a polyribonucleotide sequence encoding such inhibitors. The polyribonucleotide sequence is sequence of [(TAG)7 C2], a 23 monomer with hepta- thiamine adenine guanine di-cytosine. This is short sequence that is highly specific towards ECM protein Type IV collagenase. Additionally, the therapeutic efficacy of polyribonucleotide sequence is determined on the basis of collagenase inhibiting activity and Bioinformatics analysis is performed to observe the biological meaning of the product by using DAVID database and Cytoscape was used to find out most favourable target pathways of [(TAG)7C2].

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020354 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR DATABASE INSTRUCTIONS FOR A COMPUTER NETWORK

(51) International classification	:H04W0008180000, H04W0024020000, H04Q0011000000, F24F0001000700, F28F0001320000
(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)DEVARAJ, Shailesh
2)SIDDALINGAIAH, Gangaraju K.
3)PRABHAKAR, Bhargav Marithamanahalli

(57) Abstract :
A system and method for database instructions in a computer network, the method including: determining a subscriber event associated with a traffic flow; providing subscriber data, associated with the subscriber event to a network device; receiving, from the network device, subscriber id information and a plurality of subscriber rules or services as a plurality of rows; aggregating the plurality of rows to a single row; and writing the single row to a database. The system including: an input module configured to determine a subscriber event, provide subscriber data, associated with the subscriber event to a network device; and receive, from the network device, subscriber id information and a plurality of subscriber rules or services as a plurality of rows; a serialization module configured to aggregate the plurality of rows to a single row; and an output module configured to write the single row to a database.

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020
(21) Application No.202011020357 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A PORTABLE AND COLLAPSIBLE ROOF FOR VEHICLE

(51) International classification	:B24B0023020000, A47C0005100000, B25F0005020000, B60J0007120000, A47C0004020000
(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)DR.DEVANSHU J PATEL

(57) Abstract :
The present invention relates to a portable and collapsible roof for vehicle. The roof comprises U-shape hollow tubular pipe 1 connected with pin and bush components 2. The tubular frame with a pin in such a way the tubular frames will open at particular angle with respect to each other.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202011020387 A
(19) INDIA
(22) Date of filing of Application :14/05/2020
(43) Publication Date : 19/11/2021

(54) Title of the invention : NON INVASIVE VENTILATOR USING AMBU BAG

(51) International classification	:A61M0016000000, A61M0016200000, A61B0005087000, G01N0033497000, F04D0025060000
(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)AVINASH KSHIRSAGAR
2)PANKAJ MATHUR
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4)VIKRAM GOPAL
5)AARTHI RAMACHANDRAN

(57) Abstract :
An improved, efficient and cost effective Ambu bag based ventilator is disclosed. The disclosed ventilator (100) comprises a support stricture to hold at least one Ambu bag (104) and a compression arrangement adapted to compress the Ambu bag to forces the air from the Ambu bag to the lung of a patient through a conduit connected between an outlet end port of the Ambu bag and the patient, and release the Ambu bag in order to allow suction of air in the Ambu bag to refill Ambu bag with fresh air via an inlet end port. The ventilator includes sensors (110) and a control unit (112) to control parameters including supplied air pressure, supplied air volume, a breath rate of the patient in accordance with requirement.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020388 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LOWER LINK HOOK

(51) International classification	:G02B0006420000, G02B0006380000, H01R0013629000, F16B0021070000, B60D0001040000
(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)Herbert Coenen
2)L.Manibaskar

(57) Abstract :
A coupling device is disclosed which is designed as a hook with a hook body, an opening that allows the mating part of the attachment to enter the hook body, a guideway and 5 a shoulder to counter any offset between the mating part of the attachment to the hook. Furthermore, the coupling device includes a locking latch that protrudes into the opening of the hook body and locks the mating part of the attachment in order to engage the mating part with the hook body, thereby retaining the mating part in a locked position. In an embodiment, the locking latch has a geometry that limits the motion of the locking latch and generates a 10 motion curve. Furthermore, the locking latch moves on a motion curve to allow the locking latch to release the opening in order to allow the mating part to enter the socket.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020392 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CLASSIFICATION SYSTEM AND LEARNING SYSTEM

(51) International classification	:G06K0009620000, G06F0016951000, G06F0016350000, G06F0016245700, G06F0021570000
(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)Kenji KOBAYASHI
3)Krishna Rao KAKKIRALA

(57) Abstract :
A classification system according to an embodiment includes a score calculation unit, a determination unit, and a classification unit. The score calculation unit calculates respective scores of predetermined classes from input data. The determination unit determines whether the input data belongs to anyone of the classes based on the respective scores of the classes, which are calculated by the score calculation unit. The classification unit determines which one of the classes the input data belongs to, based on the calculated scores when the determination unit determines that the input data belongs to anyone of the classes and determines that the input data belongs to an unknown class that is other than the classes when the determination unit determines that the input data does not belong the classes.

No. of Pages : 39 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020442 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANTIMICROBIAL COATINGS

(51) International classification	:A23P0010300000, A61L0029140000, A61F0002860000, A24D0003060000, H05K0009000000
(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)PAUL, Qudrat
3)SINGH, Narinder
4)BAINS, Deepak
(72)**Name of Inventor :**
1)PAUL, Indereshwar Singh
2)PAUL, Qudrat
3)SINGH, Narinder
4)BAINS, Deepak

(57) Abstract :
The present invention relates to an anti-microbial coating and its method of preparation thereof. The coating prevents the biodegradability of fibers and polymer materials susceptible to microbial attack and degradation

No. of Pages : 39 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202011020448 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD FOR ISOLATING THERMO-RESISTANT SUPEROXIDE FREE RADICAL SCAVANGING ENZYME FROM AJWAIN AND ITS GROWTH INHIBITORY EFFECT AGAINST HUMAN CERVICAL CANCER CELLS (HELA)

(51) International classification	:A61K0038000000, C12N0015860000, A61K0008660000, A61K0036230000, A23C0009123000
(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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2)MINISTRY OF SCIENCE & TECHNOLOGY, DEPARTMENT OF BIOTECHNOLOGY
(72)**Name of Inventor :**
1)NIDHEE CHAUDHARY
2)SELVARAJ KANAGARETHINAM
3)DEEPSHIKHA PANDE KATARE

(57) Abstract :
A novel thermostable superoxide dismutase (SOD) enzyme belonging to oxidoreductases group, isolated from a household spice, Trachyspermum ammi (Ajwain); having growth inhibitory activity against human cervical cancer cell line (HeLa) is described. The present invention is based on Growth inhibitory activity (up to 100 %) exhibited by a novel thermally stable SOD purified from T. ammi (Ajwain) on cervical cancer cells (HeLa). The purified enzyme obtained from T. ammi (Ajwain) on subjection to amino acid sequencing using MALDI-TOF-TOF analysis has been found to be novel. The mass spectrometry proteomics data have been deposited to the ProteomeXchange Consortium via the PRIDE partner repository with the dataset identifier PXD011886. The enzyme isolated being novel, the present work is the first example to illustrate its significant Growth inhibitory activity against cervical cancer cell line (HeLa).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020470 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEVICE FOR STORING, HANDLING AND USING A PLURALITY OF CHIP BASED PAYMENT CARDS

(51) International classification	:B01L0003000000, G06F0001320300, H04N0021418000, H04B0001707000, G06T0007620000
(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)KUMAWAT, Jaipal, Singh
3)MAHESHWARI, Sourabh, Kumar
4)MEHTA, Ruchik, Atulkumar

(57) Abstract :
The invention provides a device that enables storing and handling of a plurality of microchip5 based payment cards within a single housing, and which housing is configured to enable one or more of the microchip-based payment cards to interface with card reader systems without prior removal from the housing. The housing enables one or more payment card tiles to be removably housed therewithin. Each payment card tile comprises a plastic substrate having a payment card microprocessor chip disposed on an outer surface of said payment card tile. 10 The housing is configured to enable payment card microprocessor chips that are disposed on each of one or more payment card tiles located within the housing to interface with a payment card reader, without necessitating removal of such payment card tile from the housing.

No. of Pages : 44 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020472 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING AN INTRAVENOUS DRIP

(51) International classification	:A61M0005168000, A61N0001368000, G01R0031360000, G01G0023370000, 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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2)Dr. Gana Jeba Das
3)Siddarth Yadav
4)Murli Manohar
5)Dr. O Jeba Shiny

(57) Abstract :
An intravenous drip monitoring system (100) comprising: a load cell (128) installed on a hook (122) of an Intravenous (IV) stand (102) configured to sense signals representing a weight of an Intravenous (IV) bottle (124); a controller (136) configured to: receive the sensed signals from the load cell (128) representing the weight of the IV bottle (124); determine the weight of the IV bottle (124); calculate a percentage of a remaining medical fluid in the IV bottle (124); transmit the calculated percentage to a user device (104) of a medical practitioner; compare the calculated percentage with a predefined threshold percentage stored in a memory (138); generate a notification when the calculated percentage is less than or equal to the predefined threshold percentage, wherein the generated notification comprises a predefined warning message and a buzzer activation signal; and transmit the generated notification to the user device (104) of the medical practitioner.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020513 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM & METHOD FOR REAL TIME HEALTH MONITORING OF A MACHINE COMPONENT

(51) International classification	:H04L0029080000, G06F0017000000, G01M0013045000, A61B0005000000, G07C0005000000
(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)AMIT KUMAR SINGH
2)LAKSHMINARAYANA PADHI
3)ANKIT KUMAR

(57) Abstract :
A method of monitoring health status of a machine component on a real time basis is provided. The method includes generating a first signal indicative of an operational characteristic of the machine component by at least one sensor module at regular predetermined intervals. The method includes receiving the first signal by at least one Internet of Things (IoT) module. The method includes converting the first signal from analog format to digital format by the at least one IoT module to generate a second signal. The method includes transmitting the second signal wirelessly by the at least one IoT module. The method includes receiving the second signal by a mobile device. The method includes processing the second signal by the mobile device to determine a real time health status of the machine component and displaying the real time health status of the machine component on the mobile device.

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020529 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FUEL DECANTATION CONTROL SYSTEM

(51) International classification	:B67D0007320000, B67D0007340000, G05B0013040000, A61H0033000000, E03C0001050000
(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)PRANAV GOEL
4)ABHISHEK AGGARWAL
(72)**Name of Inventor :**
1)MANISH SRIVASTAVA
2)AJAY BANDHU SAKSENA
3)PRANAV GOEL
4)ABHISHEK AGGARWAL

(57) Abstract :
Embodiments of present invention provide an automated control system and a method for fuel decantation, which continuously monitors and verifies the predefined conditions and other hardware and/or software components of the control system for detecting any malfunctioning or abnormality in the predefined conditions and other hardware and/or software components of the control system. Based on the detection, the control system controls operations of the control valves installed at the fuel inlet pipes of the underground fuel storage tanks at the fuel retail outlet, and thereby allows or restricts fuel decantation from a mobile fuel tanker to the underground fuel storage tanks.

No. of Pages : 54 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020549 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BRAKE ROTOR

(51) International classification	:F16D0065120000, F16D0065020000, F16D0065000000, B60B0027000000, F16D0121240000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Jenkinson Scott
2)Cholachagudda Subrahmanya

(57) Abstract :
A brake rotor having first and second panels and first and second sets of mounting flanges. The first set of mounting flanges may extend from the first panel and may be spaced apart from the second panel. The second set of mounting flanges may extend from the second panel and may be spaced apart from the first set of mounting flanges.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020560 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A DNAZYME-BASED COLORIMETRIC DETECTION OF SARS-COV-2, ITS USES THEREOF AND A KIT/DEVICE FOR DETECTION OF SARS-COV 2

(51) International classification	:C12N0015113000, C12Q0001280000, G01N0033500000, C12Q0001700000, C12Q0001688300
(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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2)SHARMA, Tarun Kumar
3)ANANTHARAJ, Anbalagan
4)DAS, Soon Jyoti

(57) Abstract :
The present invention provides a method for in vitro detection of SARS-CoV-2 through Reverse Transcription Polymerase Chain Reaction (RT-PCR) based colorimetric assay conducted on samples. The assay is conducted by incorporating synthetic DNAzyme (peroxidase enzyme mimic) functionality in the primer(s) targeting 'N' genes of SARS-CoV-2. This invention relies on the principle of PCR-induced generation of functional DNAzyme. The results indicate that the method is a non-invasive and accurate method for detection of SARS-CoV-2.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020591 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN ARRANGEMENT FOR FOLDING BLADES IN A CEILING FAN

(51) International classification	:F04D0025080000, F04D0029280000, F04D0025160000, B28C0005080000, G05B0015020000
(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)Srivastava Manas

(57) Abstract :
[0026] An arrangement (100) for folding plurality of blades (104) in a ceiling fan is provided. The arrangement (100) comprises a rotating disk (102) with a first compartment (202) and a second compartment (204), the first compartment (202) provided with a first motor (106), the second compartment (204) provided with a second motor (108) and a gear arrangement. The plurality of blades (104) are attached horizontally with the gear arrangement in the second compartment (204). The first motor (106) facilitates in the rotation of the rotating disk (102) and the second motor (108) facilitates in an upward and downward movement of the plurality of blades (104) via the gear arrangement.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020595 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DYNAMIC ROLE BASED SERIAL PERIPHERAL INTERFACE (SPI) COMMUNICATION

(51) International classification	:G06F0013420000, H04W0072040000, G06F0009540000, H03K0019177000, H04W0052020000
(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)KULKARNI, Akshay Dattatraya

(57) Abstract :
The present subject matter refers a serial to parallel interface (SPI) communication system (300) between two nodes. The system comprises at least one SPI interface (306), and a plurality of input/output I/O terminals connected through the SPI interface. A processor is configured for maintaining a recipient status and a transmitter status of the I/O terminals. A transfer of data is allowed from a first I/O terminal (302) as a master to a second I/O terminal (304) based on checking a current recipient-status of the first terminal (304) as LOW. The transmitter-status of the first I/O terminal (302) is set as HIGH based on said allowance. Data from the first I/O terminal (302) is transferred to the second I/O terminal (304). The transmitter-status of the first I/O terminal (302) is reset as LOW based on completion of said transfer.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020608 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HERBICIDAL COMBINATION AND METHOD OF CONTROLLING HERBICIDE RESISTANT WEEDS

(51) International classification	:A01N0043560000, A01N0043540000, A01N0043900000, A01N0039040000, A01N0057040000
(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)SILVA, Ferdinando Marcos Lima

(57) Abstract :
The present invention relates to a method for the effective control of undesired weeds. Particularly, the present invention relates to a method of controlling undesired weeds that are resistant to herbicides.

No. of Pages : 37 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020645 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANINTEGRATED SWITCH

(51) International classification	:H05B0037020000, F21V0023040000, H01H0013140000, H01H0071040000, E05B0017000000
(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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(72)**Name of Inventor :**
1)SINGH, Dinesh
2)KASHYAP, Pradeep
3)RANA, Gaurav

(57) Abstract :
The present invention relates to an integrated switch (100). The integrated switch (100) comprises a menu/ selector switch (102) comprising a housing (104), a base cover (106) , a plurality of switching elements (108), an actuation means (110) adapted to actuate the switching elements (108) in response to receiving an actuation force and a lateral wall (112) protruding from the housing (104). The integrated switch (100) further comprises a push switch (114) disposed on the lateral wall (112) protruding from the housing (104) of the menu/selector switch (102).

No. of Pages : 36 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/05/2020

(21) Application No.202011020648 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR ASSISTNG AN INDIVIDUAL IN SELECTION OF GARMENTS AND TEXTILES

(51) International classification	:G16H0050500000, G06N0020000000, G06Q0050160000, G06T0013400000, G06N0005040000
(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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(72)**Name of Inventor :**
1)Rohan Thakur

(57) Abstract :
The present invention discloses, a system (100) for assisting an individual to select a garment or a textile. The system (100) comprises a capturing unit (102) configured to capture a property of the individual associated with their body measurements. The capturing unit (102) captures the property through a manual or an automated feed. The system (100) has a capturing unit (104) to process the property using a machine learning. The system (100) has a generator unit (106) to generate a three dimensional (3D) virtual model of an individual based on the individual's property. An identifier unit (108) of the system (100) identifies the garment or textile based on the 3D virtual model, and provides details of the matched garment or textile, generating the 3D model of the garment, showing the virtual model wearing the garment or textile, further showing the details of the garment or textile indicative of availability, location and suitability based on the property of the user.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/05/2020

(21) Application No.202011020695 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BIOACTIVE FORMULATION AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0047690000, B82Y0005000000, A61K0047400000, A61K0031724000, C09B0061000000
(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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(72)**Name of Inventor :**
1)Harshpal Singh
2)Kul Bhaskar Singh
3)Shashi Chandrama Singh
4)Muskan Choudhary

(57) Abstract :
A bioactive formulation comprising ethanolic concentrates of Andrographolide extract in range of 90% by wt - 99% by wt and aqueous 2 hydroxypropyl beta cyclodextrin in the range of 2% by wt - 10% by wt. A method for preparation of the bioactive formulation comprising the following steps: mixing Andrographolide extract and ethanol to prepare ethanolic concentrates of Andrographolide (solvent A), mixing 2 hydroxypropyl beta cyclodextrin and ethanol to obtain an ethanolic concentrate 2 hydroxypropyl beta cyclodextrin (Solvent B), mixing the solvent A and solvent B to obtain a complex concentrate solution, recovering ethanol solvent from the concentrate solution through distillation to obtain a thick paste of the concentrate, drying the paste at a temperature in the range of 60oC and pressure in the range of -650 mm Hg to obtain a dried complex concentrate followed by converting into an amorphous powder to obtain a bioactive formulation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/05/2020

(21) Application No.202011020698 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN IMPROVED VACUUM PUMP WITH SHADOW PORT EXIT AREA

(51) International classification	:F04C0018344000, F04D0019040000, F04B0039100000, F04D0017160000, F04C0029120000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)KABIR BHANDARI
2)RAJESH KUMAR SAHOO
3)AVTAR KRISHAN SHARMA

(57) Abstract :
The present invention relates to a vacuum pump. More particularly, the present invention relates to an improved vacuum pump to achieve reduced peak torque, power consumption and total back pressure during exit stroke and directing the fluid flow pressure towards an elastic region of reed valve for easy opening to dispose the fluid and air mixture to the outside of the vacuum pump by utilizing a shadow port exit area.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/05/2020

(21) Application No.202011020709 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM AND METHOD FOR INTEGRATING POWER FROM RENEWABLE ENERGY SOURCES TO HIGH-VOLTAGE DIRECT-CURRENT TRANSMISSION LINE

(51) International classification	:H02J0003360000, H02J0003380000, H01L0023000000, H01L0025000000, H01L0025065000
(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)Ebin Cherian Mathew

(57) Abstract :
Methods and system for integrating power from a low voltage source to a high voltage direct current (HVDC) transmission system is described. A DC-DC converter comprises a plurality of first type of sub-modules coupled to a positive terminal of a voltage source converter (VSC) and a plurality of second type of sub-modules coupled to a negative terminal of the VSC. Each sub-module comprises a capacitor and at least a first switch and a second switch. The DC-DC converter is configured to turn ON the first switch and turn OFF the second switch during a charging cycle to connect the capacitors of the sub-modules in parallel, and turn OFF the first switch and turn ON the second switch during a discharging cycle to connect the capacitors of the sub-modules in series. During series connection of submodules, first type of submodules is connected to the negative terminal of HVDC system and second type of submodules is connected to positive terminal of HVDC system. The series connected submodule capacitors discharge a stepped-up voltage to the HVDC transmission system during the discharging cycle.

No. of Pages : 30 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/05/2020

(21) Application No.202011020751 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NOVEL PRIMER SETS FOR AMPLIFICATION OF BLG GENE, DNA- BASED KIT AND METHOD FOR DETECTION OF BLG GENE

(51) International classification	:C12Q0001685800, C08J0007040000, C12Q0001688300, C12Q0001689000, C07K0014435000
(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)PANDEY, Amit Kumar
2)MOHTA, Pramod
3)SHRINGI, Brij Nandan
4)MAHERCHANDANI, Sunil
5)RATHORE, Narendra Singh
6)GAHLOT, Kritika

(57) Abstract :
The present invention relates to novel primer sets for amplification of BLG gene in a sample, wherein said primer sets have a sequence selected from the group comprising of F3 primer (forward outer) SEQ ID NO:1), B3 primer (Backward outer) (SEQ ID NO:2), FIP primer (Forward inner) (SEQ ID NO:3) and BIP primer (Backward inner) (SEQ ID NO:4) and combinations /complements thereof and a method for the detection of BLG gene in a sample. The present invention also relates to a kit comprising of said primers for detecting BLG gene in a sample.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/05/2020

(21) Application No.202011020754 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PROCESS FOR THE PREPARATION OF REMDESIVIR AND INTERMEDIATES THEREOF

(51) International classification	:C07D0231120000, C07C0231100000, C07C0235600000, C07C0067317000, C07D0209440000
(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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2)PRASAD, M. Umamaheshwar
3)BISWAS, Bidyut
4)NANDI, Indranil
5)VERMA, Jai Prakash
6)GUPTA, Nitin
7)MISHRA, Vaibhav

(57) Abstract :
The present invention provides an industrially feasible and improved process for the preparation of Remdesivir of Formula XI and intermediates thereof. Further, the present invention also provides novel compound of Formula V and process for its preparation. The present invention provides compound of Formula V having purity about more than 95%. The present invention utilizes compound of Formula V as key intermediate for the preparation of Remdesivir.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/05/2020

(21) Application No.202011020774 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NOVEL PRIMER SETS, RAPID TEST KIT FOR DETECTING POINT MUTATION IN BOOROOLA FECUNDITY GENE AND METHOD THEREOF

(51) International classification	:C12Q0001685800, C12Q0001682700, C12Q0001688300, C12Q0001687600, C08J0007040000
(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)MAHERCHANDANI, Sunil
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3)AGARWAL, Mayank Kumar
4)SHARMA, Ramesh Chander
5)PANDEY, Amit Kumar
6)RATHORE, Narendra Singh
7)SHRINGI, Brij Nandan

(57) Abstract :
The present invention relates to novel primer sets for amplification for detecting point mutation in Booroola fecundity gene (FecB) in a sample, wherein said primer sets have a sequence selected from the group comprising of F3 primer (forward outer) SEQ ID NO:1), B3 primer (Backward outer) (SEQ ID NO:2), FIP primer (Forward inner) (SEQ ID NO:3) and BIP primers (Backward inner BIP1/BIP2) (SEQ ID NO:4/ SEQ ID NO:5) or combinations /complements thereof and a method for the detection of Booroola fecundity gene (FecB) in a sample. The present invention also relates to a kit comprising of said primers for detecting Booroola fecundity gene (FecB) in a sample. Fig. 4

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/05/2020

(21) Application No.202014021393 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : REMOTELY OPERATED MOBILE SERVICE ROBOTS

(51) International classification	:H04L0029080000, C07D0417140000, C07D0417060000, C07D0263320000, G03G0015000000
(31) Priority Document No	:16/874,976
(32) Priority Date	:15/05/2020
(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 :**
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2)Vitzrabin, Efraim
3)Østergaard, John Erland
4)Risager, Claus

(57) Abstract :
Implementations of the disclosed subject matter provide a mobile robot including a motor to drive a drive system to move the mobile robot in an area, a light source to output ultraviolet (UV) light, at least one sensor, a communications interface to receive at least one signal via a communications network, and a first controller to control the drive system, the light source, the at least one sensor, and the communications interface. Operations of the mobile robot may be controlled based in part on the at least one signal received via the communications network from a second controller that is in a location that is remote from the area where the mobile robot is operating.

No. of Pages : 25 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2020

(21) Application No.202014044513 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : VEHICLE SUB-FRAME AND METHOD OF MANUFACTURING SAME

(51) International classification	:B62D0021110000, B62D0025080000, B21D0028020000, B23K0031020000, B60K0005120000
(31) Priority Document No	:10-2020-0057424
(32) Priority Date	:14/05/2020
(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

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2)JANG, Hyun Min
3)SHIN, Sang Jae
4)KWAK, Chul Woo
5)LEE, Soo Cheol
6)KIM, Se Hoon

(57) Abstract :
Provided is a vehicle sub-frame including a front cross member, a rear cross member, and left and right side members mounted to connect the front cross memberand the rear cross member to each other. Each of the left and right side members has a protrusion that protrudes laterallyat a corner portion of a rear end portion thereof, the corner portion being joined to a corner portion of the rear cross member. A weld joint is formed by welding to the rear cross member along a laterally extending portion of a trim line portion of the protrusion, in which the trim line portion of the protrusion is the perimeter of the protrusion.

No. of Pages : 33 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2020

(21) Application No.202014049041 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR CONSTRUCTION OF TUBE-SINKING CAST-IN-SITU PILE IN BACKFILL SOIL LAYER

(51) International classification	:E02D0027420000, E02D0005220000, E02D0003100000, E02D0005340000, E02D0007060000
(31) Priority Document No	:202010410726.8 (CN)
(32) Priority Date	:15/05/2020
(33) Name of priority country	:China
(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)Shaanxi Longhai Newly Created Foundation Engineering Co., Ltd.
(72)**Name of Inventor :**
1)LIU, QINGJIE
2)JU, Qifeng

(57) Abstract :
The present invention discloses a method for construction of a tube-sinking cast-in-situ pile in a backfill soil layer. A single pile pipe construction is mainly applied to strata with large difference in bearing stratum elevation, the pile length is large, and the height of a pile driver tower is limited. In order to avoid frequent replacement of the pile pipe length, the single pile pipe with a special pipe end cap is adopted for construction, and each pile has one end cap. The construction method of the present invention obviously improves hole collapse, shortens a construction period, reduces costs, and has good construction quality.

No. of Pages : 8 No. of Claims : 1

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

(21) Application No.202014052640 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD TO DESIGN AND MANUFACTURE AN INTRAOCULAR LENS

(51) International classification	:A61F0002160000, A61L0027160000, G06F0030330000, G16H0020400000, H01M0010052000
(31) Priority Document No	:202030449
(32) Priority Date	:14/05/2020
(33) Name of priority country	:Spain
(86) International Application No	:NA
Filing Date	:NA
(87) 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)ARTAL SORIANO, Pablo

(57) Abstract :
Method to design and manufacture an intraocular lens, comprising an optical part and haptics part, in which the optical part comprises an anterior surface with negative refractive power and a posterior surface with positive refractive power, in which in order to determine the 5 refractive power D of the anterior surface of the optical part and the refractive power D' of the posterior surface of the optical part the following steps are performed: - a plurality of light rays are provided over the normal eye, both on the optical axis (1001) and forming different angles (714, 715, 716) with respect to the optical axis (1001), - for each light ray with its angle the axial length of the eye and the refractive power of the 10 cornea are measured, - determination of the shape of the retina (200) through a mathematical fit to an aspherical surface that contains the measured points, - calculation of the arc length S that goes from the intersection of the optical axis with the retina (200) of the eye to the intersection of the light ray with the retina (200) of the eye for 15 each angle, as a function of the shape of the retina (200) and the angle of the light ray, - fit of the refractive power D of the anterior surface of the optical part and refractive power D' of the posterior surface of the optical part using ray tracing optimization in a pseudophakic eye model

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/03/2021
(21) Application No.202114013871 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FABRICATING A SILICON CARBIDE AND NITRIDE STRUCTURES ON A CARRIER SUBSTRATE

(51) International classification	:H01L0021020000, H01L0029160000, H01L0029660000, H01L0029780000, B01J0023630000
(31) Priority Document No	:16/874,588
(32) Priority Date	:14/05/2020
(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)YAP, Daniel
3)CHEN, Edward H.
4)KIM, Danny M.
5)LADD, Thaddeus D.

(57) Abstract :
A method, apparatus, and system for forming a semiconductor structure. A first oxide layer (402, 912) located on a set of group III nitride layers (200, 908, 910, 1308, 1310, 1606, 1806, 2006, 2106, 2210, 2212, 2310, 2312) formed on a silicon carbide substrate (100, 1003) is bonded to a first oxide layer (504, 1002) located on a carrier substrate (500, 1000, 1314, 1602, 1802, 2002, 2102, 2202, 2302, 2402) to form an oxide layer (600, 1100, 1312, 1604, 1804, 2004, 2104, 2204, 2304) located between the carrier substrate (500, 1000, 1314, 1602, 1802, 2002, 2102, 2202, 2302, 2402) and the set of group III nitride layers (200, 908, 910, 1308, 1310, 1606, 1806, 2006, 2106, 2210, 2212, 2310, 2312). The silicon carbide substrate (100, 1003) has a doped layer (106, 904, 1302). The silicon carbide substrate (100, 1003) having the doped layer (106, 904, 1302) is etched using a photo-electrochemical etching process, wherein a doping level of the doped layer (106, 904, 1302) is such that the doped layer (106, 904, 1302) is removed and a silicon carbide layer in the silicon carbide substrate (100, 1003) remains unetched. The semiconductor structure is formed using the silicon carbide layer and the set of group III nitride layers (200, 908, 910, 1308, 1310, 1606, 1806, 2006, 2106, 2210, 2212, 2310, 2312).

No. of Pages : 91 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/03/2021

(21) Application No.202117009791 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR OPERATING A METALLURGICAL FURNACE

(51) International classification	:C01B0003380000, C01B0003480000, F27B0003220000, F27D0017000000, C01B0003340000
(31) Priority Document No	:LU101210
(32) Priority Date	:14/05/2019
(33) Name of priority country	:Luxembourg
(86) International Application No Filing Date	:PCT/EP2020/063342 :13/05/2020
(87) International Publication No	:WO 2020/229545
(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)CASTAGNOLA, Cristiano
2)MICHELETTI, Lorenzo

(57) Abstract :
The invention relates to a method for operating a metallurgical furnace (10). In order to provide a simplified way of providing synthesis gas for a metallurgical furnace, the invention provides that the method comprises: - performing a combustion process outside the metallurgical furnace (10) by combusting a carbon-containing material (41) with an oxygen-rich gas (40) to produce an offgas (42), which offgas (42) is a CO2 containing gas; - combining the offgas (42), while having an elevated combustion-induced temperature due to the combustion process, with a hydrocarbon-containing fuel gas (43) to obtain a first gas mixture (44) having a temperature above a reforming temperature necessary for a reforming process, preferably a dry reforming process; - the first gas mixture (44) undergoing the reforming process, thereby producing a synthesis gas (45) containing CO and H2, the reforming process being performed non-catalytically; and - feeding the synthesis gas (45) into the metallurgical furnace (10).

No. of Pages : 10 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/03/2021
(21) Application No.202117011503 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IMAGE COMPONENT PREDICTION METHOD, ENCODER, DECODER, AND STORAGE MEDIUM

(51) International classification	:H04N0019176000, H04N0019593000, H04N0019110000, H04N0019610000, H04N0019186000
(31) Priority Document No	:62/872488
(32) Priority Date	:10/07/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CN2020/090688 :15/05/2020
(87) International Publication No	:WO 2021/004155
(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)HUO, Junyan
2)MA, Yanzhuo
3)ZHANG, Wei

(57) Abstract :
Disclosed in embodiments of the present invention are an image component prediction method, an encoder, a decoder, and a storage medium. The method comprises: determining prediction parameters for a current block, wherein the prediction parameters include a prediction mode parameter and a size parameter of the current block; if the prediction mode parameter indicates that a matrix-based intra prediction (MIP) mode is to be used to determine an intra prediction value of the current block, determining an MIP weight matrix of the current block, a shift factor of the current block and an MIP input sample matrix of the current block; and determining an intra prediction value of the current block according to the MIP weight matrix, the shift factor and the MIP input sample matrix.

No. of Pages : 63 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025149 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : OPHTHALMIC SOLUTION CONTAINER

(51) International classification	:B32B0027320000, B32B0027080000, B32B0015200000, A61K0009000000, B32B0015085000
(31) Priority Document No	:2018-230193
(32) Priority Date	:07/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/047969 :06/12/2019
(87) International Publication No	:WO 2020/116654
(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)ETOU Yuuki
3)SUZUKI Toyoaki

(57) Abstract :
This ophthalmic solution container (30) includes an accommodation part (31) that accommodates an ophthalmic solution. The accommodation part (31) is formed from a layered body that includes: a layer containing a cyclic olefin copolymer; and a layer containing a polyethylene resin and disposed on the outer side of the layer containing the cyclic olefin copolymer. The thickness of the layer containing the cyclic olefin copolymer is 50-1000 μm, and the thickness of the layered body is 300-2000 μm. With this container, it is possible to: suppress sorption (adsorption and absorption) of the ophthalmic solution; improve moisture barrier properties and thus suppress evaporation; and reduce squeeze strength.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025152 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A LITHOGRAPHIC PRINTING PLATE PRECURSOR

(51) International classification	:B41C0001100000, C09B0023010000, C09J0007400000, B41J0003440000, G03C0001080000
(31) Priority Document No	:18211235.9
(32) Priority Date	:10/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/084232 :09/12/2019
(87) International Publication No	:WO 2020/120400
(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)HENDRIKX, Peter
2)BILLIET, Thomas
3)LOCCUFIER, Johan
4)HIMSCHOOT, Katleen

(57) Abstract :
A lithographic printing plate precursor is disclosed including a support and a coating comprising a sensitizer and an onium salt wherein the onium salt and the sensitizer are capable of inducing a print-out image upon UV light exposure.

No. of Pages : 47 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025171 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFORMATION PROCESSING SYSTEM, INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND PROGRAM

(51) International classification	:G06K0009000000, G07G0001000000, H04N0009820000, G06F0021880000, G11C0011160000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/045054 :07/12/2018
(87) International Publication No	:WO 2020/115890
(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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Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(72)**Name of Inventor :**
1)KAWASE Nobuaki

(57) Abstract :
An information processing device (100) is provided with: a comparison unit (102) which compares first feature information extracted from a person included in a first image (20) with first registered feature information stored in a storage device (110); and a registration unit (104) which causes the storage device (110) to store, as second registered feature information, second feature information extracted from the person, if the first feature information cannot be extracted from the person or if the comparison result from the comparison unit (102) indicates a mismatch. The comparison unit (102) compares second feature information extracted from each person included in a second image (22) with the second registered feature information stored in the storage device (110) to identify, from the second image (22), the person associated with the second registered feature information.

No. of Pages : 57 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025172 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NON-ORIENTED ELECTRICAL STEEL SHEET AND METHOD FOR PRODUCING SAME

(51) International classification	:C21D0008120000, C22C0038060000, C22C0038020000, C22C0038040000, C22C0038000000
(31) Priority Document No	:2018-245507
(32) Priority Date	:27/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/033418 :27/08/2019
(87) International Publication No	:WO 2020/136993
(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)ODA Yoshihiko
3)OKUBO Tomoyuki
4)TANAKA Takaaki
5)MIYAMOTO Yukino

(57) Abstract :
When this non-oriented electrical steel sheet is produced by hot-rolling a slab containing 0.0050 mass% or less of C, 2.8-6.5 mass% of Si, 0.05-2.0 mass% of Mn, 0.10 mass% or less of P, 0.0050 mass% or less of S, 0.3-2.0 mass% of Al, 0.0050 mass% or less of N, and 0.0005-0.0050 mass% of Zn, performing a hot-rolled sheet annealing, performing a cold-rolling, and performing a finish annealing, a dew point during the hot-rolled sheet annealing is set to 0-70°C, and during the finish annealing, the nitrogen content in the atmosphere is set to 30 vol% or less and the dew point is set to -20°C or less. Thus, the ratio of the amount of nitrogen present as AlN in the total sheet thickness to the amount of nitrogen present as AlN in a layer from one side surface of the steel sheet to 1/20 of the sheet thickness is made 5.0 or more, thereby obtaining a non-oriented electrical steel sheet having a high magnetic flux density and a low high-frequency iron loss, without causing a decrease in magnetic flux density and a decrease in productivity.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025173 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : RESOURCES ALLOCATION FOR UN-MANAGED COMMUNICATION LINKS

(51) International classification	:H04W0076100000, H04L0029080000, A61B0005030000, H04W0084040000, H04J0014020000
(31) Priority Document No	:102018000020509
(32) Priority Date	:20/12/2018
(33) Name of priority country	:Italy
(86) International Application No Filing Date	:PCT/EP2019/085903 :18/12/2019
(87) International Publication No	:WO 2020/127455
(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)BULDORINI, Andrea
2)DEMARIA, Elena
3)FODRINI, Maurizio
4)GUARDINI, Ivano
5)MARCHISIO, Marco

(57) Abstract :
A communication system (100) comprising: - a communication network (130); - a communication system node (110) which is in communication with the communication network (130) through a first communication link, the communication system node (110) being configured to establish a second communication link with at least one UE (120) in order to allow said at least one UE (120) to connect to said communication network (130), said second communication link being an un-managed communication link;10 - a backhauling provider module (140) associated with the communication network (130) and configured to dynamically allocate backhauling resources to said first communication link for data transmission between the node (110) and the communication network (130) based on UE parameters relating to said at least one UE (120) currently connected to the communication system node (110).

No. of Pages : 19 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025174 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : OXYGEN CONCENTRATOR, CONTROL METHOD, AND CONTROL PROGRAM

(51) International classification	:A61M0016100000, A61M0016060000, B01D0053040000, B01D0053047000, C01B0013020000
(31) Priority Document No	:2018-215091
(32) Priority Date	:15/11/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/044758 :14/11/2019
(87) International Publication No	:WO 2020/100996
(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)SHINOHARA, Koichi
2)YAMAURA, Yuki

(57) Abstract :
The purpose of the invention is to provide an oxygen concentrator, a control method, and a control program that can shorten the startup period until a desired high concentration oxygen gas can be supplied. Provided is an oxygen concentrator that has a pressurized air supply unit to supply pressurized air, an adsorption pipe to generate oxygen gas by adsorbing the nitrogen in the pressurized air and concentrating the oxygen in the pressurized air, an oxygen gas tank to store the oxygen gas, a flow rate regulator to regulate the flow rate of oxygen gas output from the oxygen gas tank to the outside, and a control unit to control the flow rate regulator so that the oxygen gas flow rate is a set flow rate and to control the pressurized air supply unit so that the pressurized air is at a supply rate according to the set flow rate, wherein the control unit controls the flow rate regulator so that the oxygen gas flow rate has a startup flow rate equal to or greater than the set flow rate only during the oxygen concentrator startup period and controls the pressurized air supply unit so that the pressurized air has a startup supply rate equal to or greater than the set supply rate according to the respective set flow rates.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025176 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LIGANDS FOR PRODUCTION OF 1-HEXENE IN CHROMIUM ASSISTED ETHYLENE OLIGOMERIZATION PROCESS

(51) International classification	:C07C0002320000, C09K0021120000, C08F0210160000, B01J0031340000, B01J0031140000
(31) Priority Document No	:62/758809
(32) Priority Date	:12/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/059672 :11/11/2019
(87) International Publication No	:WO 2020/100010
(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)VIDJAYACOUMAR, Balamurugan
3)KOROBKOV, Ilia
4)ALBAHILY, Khalid

(57) Abstract :
Catalyst compositions and processes for the oligomerization of ethylene to 1-hexene are described. The catalyst composition includes a triamino bisphospino (NPNPN) ligand system with specific phosphorous and nitrogen ligands. The terminal nitrogen atoms include linear alkyl hydrocarbons that differ in the number of carbon atoms by 3.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025177 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SPIKING NEURAL NETWORK

(51) International classification	:G06N0003040000, G06N0003080000, G06N0003063000, G01V0003300000, H03H0017060000
(31) Priority Document No	:62/768927
(32) Priority Date	:18/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/081373 :14/11/2019
(87) International Publication No	:WO 2020/099583
(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)ZJAJO, Amir

(57) Abstract :
A spiking neural network for classifying input pattern signals, comprising a plurality of spiking neurons implemented in hardware or a combination of hardware and software, and a plurality of synaptic elements interconnecting the spiking neurons to form the network. Each synaptic element is adapted to receive a synaptic input signal and apply a weight to the synaptic input signal to generate a synaptic output signal, the synaptic elements being configurable to adjust the weight applied by each synaptic element, and each of the spiking neurons is adapted to receive one or more of the synaptic output signals from one or more of the synaptic elements, and generate a spatio-temporal spike train output signal in response to the received one or more synaptic output signals.

No. of Pages : 36 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025178 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : POLYAMIDE MICROCAPSULES

(51) International classification	:B01J0013160000, C11D0003500000, A61K0008110000, A61Q0013000000, A61K0008870000
(31) Priority Document No	:18214089.7
(32) Priority Date	:19/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086321 :19/12/2019
(87) International Publication No	:WO 2020/127743
(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)JACQUEMOND, Marlène
3)OUALI, Lahoussine
4)ELABBADI, Amal
5)NICOLAE, Anaick

(57) Abstract :
The present invention relates to a new process for the preparation of polyamide microcapsules. Polyamide microcapsules are also an object of the invention. Perfuming compositions and consumer products comprising said capsules, in particular perfumed consumer products in the form of home care or personal care products, are also part of the invention.

No. of Pages : 93 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025183 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR MANUFACTURING A FIBER REINFORCED POLYMER COMPOSITE BEAM, PARTICULARLY A SPAR BEAM FOR A WIND TURBINE ROTOR BLADE

(51) International classification	:B29C0070440000, B29L0031000000, B29L0031080000, B29C0070540000, B29K0105080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/US2018/064832 :11/12/2018
(87) International Publication No	:WO 2020/122863
(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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3)MERZHAEUSER, Thomas
4)SHEPHERD, Julie Ann
5)RONDEAU, Louis
6)SHILLIG, Scott Iverson

(57) Abstract :
A method for producing a hollow composite structure, such as a spar beam for a wind turbine blade, includes placing a membrane (116) within a mold tool (110), the membrane being permeable to air and impermeable to resin. A mandrel (108) is placed within the mold tool, the mandrel enclosed in an air tight layer (126) that includes a vent (134). Fiber reinforcement material (104) is placed around the mandrel within the mold tool and the membrane is sealed at least partly around the fiber reinforcement material and mandrel. The mold tool is closed with the vent line from the mandrel extending through the sealed membrane to outside of the mold tool. A vacuum is drawn in the mold tool while the mandrel is vented to outside of the mold tool, and while the vacuum is being drawn, resin is infused into the mold tool around the mandrel such that the resin is drawn towards the membrane.

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025185 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFORMATION PROCESSING SYSTEM, INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND PROGRAM

(51) International classification	:G06K0009000000, G06K0009620000, G06K0009460000, G06T0007900000, G06F0021560000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/045176 :07/12/2018
(87) International Publication No	:WO 2020/115910
(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)KAWASE Nobuaki

(57) Abstract :
An information processing device (100) is provided with: an extraction unit (102) which extracts first facial feature information from a person's face region included in a first image (10), and extracts first person region feature information from the person's entire region excluding the face; and a comparison means which compares two or more sets of feature information. If the extraction unit (102) cannot extract second facial feature information from a person's face region included in a second image (20), the extraction unit (102) extracts second person region feature information from the person's entire region, excluding the face, included in the second image (20), and a comparison unit (104) compares the first person region feature information and the second person region feature information.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025186 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NEW DIHYDROQUINAZOLINONES EXHIBITING PROTECTIVE ACTIVITY AGAINST INTRACELLULAR-ACTING TOXINS, INTRACELLULAR VIRUSES AND BACTERIA

(51) International classification	:G01N0033569000, C07C0215420000, B82Y0005000000, A61K0047500000, C07D0417140000
(31) Priority Document No	:1872016
(32) Priority Date	:28/11/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2019/082976 :28/11/2019
(87) International Publication No	:WO 2020/109510
(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)BARBIER, Julien
3)GILLET, Daniel
4)PRUVOST, Alain
5)COUHERT, Audrey
6)TEPSHI, Livia
7)VINCK, Robin

(57) Abstract :
The invention relates to a new family of compounds of the type 2,3-dihydroquinazolin-4(1H)-one and the use thereof as inhibitors of the toxic effects of intracellular-acting toxins, such as ricin, Shiga toxins or the cholera toxin, using retrograde transport to intoxicate the cells, or viruses or bacteria using retrograde and/or syntaxin 5-dependent transport to infect the cells, specifically viruses or bacteria entering into the cells by means of endocytosis, or intracellular parasites.

No. of Pages : 27 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025187 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HEAT UTILIZATION SYSTEM, AND HEAT GENERATING DEVICE

(51) International classification	:C01B0003000000, F24V0030000000, A61F0007020000, H01M0010615000, C23C0014180000
(31) Priority Document No	:2018-232055
(32) Priority Date	:11/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/048396 :11/12/2019
(87) International Publication No	:WO 2020/122098
(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)IBARAKI Tetsuharu

(57) Abstract :
Provided are a novel heat utilization system and a heat generating device employing an inexpensive, clean, and safe thermal energy source. A heat utilization system 10 is provided with: a heat generating body 14 which generates heat by absorbing and releasing hydrogen; a hermetically sealed container 15 having a first chamber 21 and a second chamber 22 which are partitioned by means of the heat generating body 14; and a temperature regulating unit 16 for regulating the temperature of the heat generating body 14. The first chamber 21 and the second chamber 22 have different hydrogen pressures. The heat generating body 14 includes: supporting body formed using at least any of a porous material, a hydrogen permeable membrane, and a proton conductor; and a multilayer film provided on the supporting body. The multilayer film includes: a first layer which is formed using a hydrogen absorbing metal or a hydrogen absorbing alloy, and which has a thickness of less than 1000 nm; and a second layer which is formed using a hydrogen absorbing metal, a hydrogen absorbing alloy, or a ceramic, different from the first layer, and which has a thickness of less than 1000 nm.

No. of Pages : 147 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025211 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TECHNIQUE FOR INITIATING A VOICE CALL IN A MOBILE COMMUNICATION NETWORK

(51) International classification	:H04W0076100000, H04W0028080000, H04W0084120000, H04W0004900000, H04W0036300000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/EP2019/053277 :11/02/2019
(87) International Publication No	:WO 2020/164682
(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)MAGYAR, Gábor
3)SZANISZLÓ, György

(57) Abstract :
An aspect of the present disclosure is directed to a method for initiating a voice call in a mobile communication network. The method comprises detecting that a user device performs a call attempt of initiating a voice call over the mobile communication network while being wirelessly connected to a WiFi access point, determining at least one call attempt parameter indicative of a situation and/or environment in which the call attempt is performed, and deciding, based on a decision criterion, whether the voice call to be initiated shall be forced to be used for training a prediction model. If it is decided that the voice call shall be forced to be used for training the prediction model, the method further comprises initiating the voice call over the WiFi access point as a Voice over WiFi, VoWiFi, call, deriving at least one key performance indicator, KPI, from the performed voice call, and providing the at least one call attempt parameter and the at least one KPI to the prediction model for training the prediction model. If it is decided that the voice call shall not be forced to be used for training the prediction model, the method further comprises deciding, based on the at least one call attempt parameter and by applying the prediction model, whether the voice call shall be performed over the WiFi access point or over a 3rd Generation Partnership Project, 3GPP, radio access network.

No. of Pages : 22 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025213 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR SYNTHESISING PEPTIDES

(51) International classification	:A61K0008810000, A61Q0019000000, C07K0005078000, C07K0001040000, C09C0001400000
(31) Priority Document No	:1874091
(32) Priority Date	:24/12/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2019/000218 :23/12/2019
(87) International Publication No	:WO 2020/136312
(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)SERRE, Audrey

(57) Abstract :
The invention relates to a method for synthesising peptides or proteins by successively elongating the second end of a peptide chain, the carboxylic acid function (C-terminal) or the amine function Na of which is attached to an anchoring molecule that is soluble in an apolar solvent, characterised in that said anchoring molecule comprises a polyolefin chain with at least 10 monomer units, and preferably between 15 and 50 units.

No. of Pages : 23 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025225 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ALTERNATIVE PROTOCOL SELECTION

(51) International classification	:G06F0013420000, G09G0003360000, G06F0013380000, H04L0029080000, G09G0003200000
(31) Priority Document No	:16/223873
(32) Priority Date	:18/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/038531 :21/06/2019
(87) International Publication No	:WO 2020/131160
(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)TALBOT, Gerald R.

(57) Abstract :
A link controller, method, and data processing platform are provided with dual-protocol capability. The link controller includes a physical layer circuit for providing a data lane over a communication link, a first data link layer controller which operates according to a first protocol, and a second data link layer controller which operates according to a second protocol. A multiplexer/demultiplexer selectively connects both data link layer controllers to the physical layer circuit. A link training and status state machine (LTSSM) selectively controls the physical layer circuit to transmit and receive first training ordered sets over the data lane, and inside the training ordered sets, transmit and receive alternative protocol negotiation information over the data lane. In response to receiving the alternative protocol negotiation information, the LTSSM causes the multiplexer/demultiplexer to selectively connect the physical layer circuit to the second data link layer controller.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025228 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NON-ORIENTED MAGNETIC STEEL SHEET

(51) International classification	:C22C0038060000, C22C0038020000, C22C0038000000, C22C0038040000, C21D0008120000
(31) Priority Document No	:2018-245590
(32) Priority Date	:27/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/048175 :10/12/2019
(87) International Publication No	:WO 2020/137500
(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)OKUBO Tomoyuki
4)TANAKA Takaaki
5)MIYAMOTO Yukino

(57) Abstract :
The present invention provides a non-oriented magnetic steel sheet having a component composition comprising 0.005 mass% or less of C, 3-5 mass% of Si, 5 mass% or less of Mn, 0.1 mass% or less of P, 0.01 mass% or less of S, 3 mass% or less of Al, 0.005 mass% or less of N, and 0.0005-0.003 mass% of Zn, the balance being Fe and unavoidable impurities. The non-oriented magnetic steel sheet has an average crystal grain diameter of 40 μm or less, a number of inclusions of 5/mm2 or less for a diameter of 5 μm or greater, a tensile strength of 600 MPa or higher, and a fatigue strength of 450 MPa or higher, the non-oriented magnetic steel sheet having exceptional low iron loss, tensile strength, and fatigue strength.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025229 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HETEROCYCLIC SPIRO-COMPOUNDS AS AM2 RECEPTOR INHIBITORS

(51) International classification	:C07D0487040000, C07D0471040000, C07D0413120000, A61K0045060000, C07D0498040000
(31) Priority Document No	:1818651.0
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053236 :15/11/2019
(87) International Publication No	:WO 2020/099882
(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)TOZER, Matthew, J.
6)GIBSON, Karl, Richard
7)PORTER, Roderick, Alan
8)GLOSSOP, Paul, Alan

(57) Abstract :
Disclosed are compounds of the formula (I) and pharmaceutically acceptable salts thereof: wherein HET, R1, R2, R3, R4, R5, L, L1, X1, X2, X3 and q are as defined herein. The compounds are inhibitors of adrenomedullin receptor subtype 2 (AM2). Also disclosed are the compounds for use in the treatment of diseases modulated AM2, including proliferative diseases such as cancer; pharmaceutical compositions comprising the compounds; methods for preparing the compounds; and intermediates useful in the preparation of the compounds.

No. of Pages : 180 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025230 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HETEROCYCLIC SPIRO-COMPOUNDS AS AM2 RECEPTOR INHIBITORS

(51) International classification	:C07D0487040000, C07D0471040000, C07D0413120000, C07D0487080000, C07K0005020000
(31) Priority Document No	:1818649.4
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053241 :15/11/2019
(87) International Publication No	:WO 2020/099885
(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)TOZER, Matthew, J.
6)GIBSON, Karl, Richard
7)PORTER, Roderick, Alan
8)GLOSSOP, Paul, Alan

(57) Abstract :
Disclosed are compounds of the formula (I) and pharmaceutically acceptable salts thereof: wherein R1, R2, R4, R5, R6, R7, R8, R9, R10,Z, X1, X2, X3, L2, HET, n and q are as defined herein. The compounds are inhibitors of adrenomedullin receptor subtype 2 (AM2). Also disclosed are the compounds for use in the treatment of diseases modulated AM2, including proliferative diseases such as cancer; pharmaceutical compositions comprising the compounds; methods for preparing the compounds; and intermediates useful in the preparation of the compounds.

No. of Pages : 332 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025233 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ON-PRESS PROCESSING OF A UV OR VIOLET-SENSITIZED LITHOGRAPHIC PRINTING PLATE

(51) International classification	:B41C0001100000, G03F0007300000, G03F0007000000, G03F0007105000, G03F0007031000
(31) Priority Document No	:18211235.9
(32) Priority Date	:10/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/084237 :09/12/2019
(87) International Publication No	:WO 2020/120402
(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)BILLIET, Thomas
3)LOCCUFIER, Johan
4)HIMSCHOOT, Katleen
5)WILKINSON, Sue

(57) Abstract :
A method of lithographic plate making is disclosed wherein a plate precursor is exposed to laser radiation in the wavelength range from 350 to 450 nm, said plate precursor comprising a hydrophilic support and a photopolymerizable or photocrosslinkable image recording layer, and then processed on-press by supplying fountain and ink. The exposure produces a visible image having a 1976 CIELAB color distanceE between exposed and non-exposed areas of at least 2.5.

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025234 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AN INTERFACE JOINT FOR INTERCONNECTING AN ELECTROSURGICAL GENERATOR AND AN ELECTROSURGICAL INSTRUMENT

(51) International classification	:A61B0018000000, A61B0018140000, A61B0018120000, A61B0017000000, A61B0090000000
(31) Priority Document No	:1818869.8
(32) Priority Date	:20/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2019/081735 :19/11/2019
(87) International Publication No	:WO 2020/104419
(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)GULLIFORD, Craig
6)HOPKINS, Huw
7)TURNER, Louis
8)PLUTA, Rob

(57) Abstract :
An interface joint for interconnecting an electrosurgical generator and an electrosurgical instrument, the interface joint comprising: a housing having: an inlet for receiving electromagnetic energy from the electrosurgical generator, and an outlet; a slidable trigger on the housing, the slidable trigger being attached to a push rod that extends out of the housing through the outlet; and a single cable assembly for connecting the outlet to the electrosurgical instrument, the single cable assembly comprising a flexible sleeve that conveys the push rod and a coaxial cable that is connected to the inlet. The interface joint may include a reinforcement element coupled to a first portion of the push rod so as to reinforce the first portion. Additionally or alternatively, the interface joint may include a slide limiting mechanism coupled to the push rod and configured to limit a maximum slide distance of an internal tube over the push rod.

No. of Pages : 21 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021
(21) Application No.202117025236 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : RESILIENT NEURAL NETWORK

(51) International classification	:G06N0003040000, G06N0003080000, G06N0003063000, G01N0033543000, G01J0001080000
(31) Priority Document No	:62/768927
(32) Priority Date	:18/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/081662 :18/11/2019
(87) International Publication No	:WO 2020/099680
(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)KUMAR, Sumeet Susheel

(57) Abstract :
The present invention discloses a spiking neural network for classifying input signals. The spiking neural network comprises a plurality of spiking neurons, and a plurality of synaptic elements interconnecting the spiking neurons to form the network. Each synaptic element is adapted to receive a synaptic input signal and apply a weight to the synaptic input signal to generate a synaptic output signal, the synaptic elements being configurable to adjust the weight applied by each synaptic element. Furthermore, each of the spiking neurons is adapted to receive one or more of the synaptic output signals from one or more of the synaptic elements, and generate a spatio-temporal spike train output signal in response to the received one or more synaptic output signals. The spiking neural network is partitioned into multiple sub-networks, wherein each sub-network comprises a sub-set of the spiking neurons connected to receive synaptic output signals from a sub-set of the synaptic elements. The sub-network is adapted to generate a sub-network output pattern signal in response to a sub-network input pattern signal applied to the sub-network. Furthermore, each sub-network forms part of one or multiple cores in an array of cores, each core consisting of a programmable network of spiking neurons implemented in hardware or a combination of hardware and software. Communication between cores in the core array is arranged through a programmable interconnect structure.

No. of Pages : 34 No. of Claims : 53

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025237 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD AND SYSTEM FOR ASSESSING AIRCRAFT LANDING AND SURFACE MOVEMENT PERFORMANCES

(51) International classification	:B64D0045000000, G06Q0030020000, G08G0005000000, G08G0005020000, B64F0005600000
(31) Priority Document No	:62/777907
(32) Priority Date	:11/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2019/051785 :11/12/2019
(87) International Publication No	:WO 2020/118433
(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)SHATTUCK, Ty
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5)CUDMORE, Paul Edward
6)SAVERY, Daniel Thomas

(57) Abstract :
A method for detecting and reporting anomalies in operation of an aircraft. The method including the steps of: receiving real time data indicative of the operation of the aircraft, the real time data including at least one of the following parameters: ground speed, rate of deceleration of the aircraft, touchdown location, aircraft route, timing of aircraft route, ground movement activities and a maximum landing distance; based on the collected real time data, calculating a predicted performance of the aircraft, and alerting an operator when the predicted performance is outside of an acceptable performance for the aircraft.

No. of Pages : 19 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025262 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NEW HOT MELT ADHESIVE FOR CONSTRUCTION OF DISPOSABLE NONWOVEN HYGIENE PRODUCT

(51) International classification	:C09J0011060000, C09J0011080000, C09J0153020000, C09J0123200000, C09J0123100000
(31) Priority Document No	:18306755.2
(32) Priority Date	:20/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/083675 :04/12/2019
(87) International Publication No	:WO 2020/126506
(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)KOMAR, Stéphanie
3)DELORY, Bénédicte
4)MANGEANT, Magali

(57) Abstract :
1) Hot melt adhesive composition comprising : - from 30 % to 55 % of a composition (A) consisting of 2 copolymers of propylene and ethylene (A1) and (A2), with Mw of less than 100,000 Da, wherein : - (A1) is an essentially amorphous copolymer, with a DSC melt enthalpy of 10 less than 30 J/g; - (A2) is a semicrystalline copolymerwith a DSC melt enthalpy of more than 30 J/g; and - the ratio : weight of (A2) / weight of (A1) is from 0.2 to 1.5; - from 20 % to 50 % of a tackifying resin (B); and1 - from 2 % to 25 % of a plasticizer (C) consisting of a liquid polybutene oligomer. 2) Process of manufacturing an assembly product, preferably a disposable nonwoven absorbent article, implementing said hot melt adhesive composition.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025263 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TRUCK BED

(51) International classification	:B60R0013010000, B60P0001280000, B02C0017220000, B60C0011010000, B60R0021360000
(31) Priority Document No	:1851564-3
(32) Priority Date	:12/12/2018
(33) Name of priority country	:Sweden
(86) International Application No Filing Date	:PCT/EP2019/084707 :11/12/2019
(87) International Publication No	:WO 2020/120602
(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)PERSSON, Henrik

(57) Abstract :
The invention relates to an on-road truck body lining (200) for protecting an on-road truck body (100) from wear. The on-road truck body lining comprising a plurality of main lining elements (10, 20), and a plurality of edge lining elements (40) arranged to be fixated to the on-road truck body such that the respective adjacent edge lining element, upon being fixated, clamps the main lining element to the on-road truck body.

No. of Pages : 14 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021
(21) Application No.202117025264 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LIGHT-EMITTING DEVICE AND DISPLAY DEVICE HAVING SAME

(51) International classification	:H01L0027320000, H01L0051520000, H01L0029423000, H01L0033140000, H01L0033620000
(31) Priority Document No	:10-2018-0144853
(32) Priority Date	:21/11/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/006027 :20/05/2019
(87) International Publication No	:WO 2020/105824
(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)KANG, Jong Hyuk
3)CHO, Hyun Min

(57) Abstract :
A light-emitting device according to one embodiment of the present invention comprises: a light-emitting area; an insulation pattern which is arranged on the light-emitting area, and which includes at least one recessed portion and a protruding portion encompassing the recessed portion; a first electrode which is arranged on the insulation pattern and which overlaps with a first area of the recessed portion and the protruding portion adjacent to the first area; a second electrode which is arranged on the insulation pattern so as to be spaced a predetermined distance from the first electrode in a first direction, and which overlaps with a second area of the recessed portion and the protruding portion adjacent to the second area; and a light-emitting diode arranged inside the recessed portion, and electrically connected between the first electrode and the second electrode.

No. of Pages : 79 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025265 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTRONIC DEVICE COMPRISING ANTENNA

(51) International classification	:H01Q0001240000, G06F0001160000, H04N0005225000, G02F0001133570, H01Q0001360000
(31) Priority Document No	:10-2019-0016597
(32) Priority Date	:13/02/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/002027 :13/02/2020
(87) International Publication No	:WO 2020/166989
(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)SHIN, Donghun
4)LEE, Yoonjae

(57) Abstract :
An electronic device is provided. The electronic device includes a support member, a front plate disposed on a front surface of the support member, a back plate disposed on a back surface of the support member, a non-conductive structure interposed between the back plate and an edge of the support member and fixed to the support member, and an antenna structure interposed between the back plate and an edge of the support member. At least a portion of the antenna structure may be disposed to face the non-conductive structure. In a region of the non-conductive structure, which faces the antenna structure, a separated distance from the antenna structure varies depending on a distance from a bottom surface of the support member to which the non-conductive structure is fixed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025266 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTRONIC DEVICE AND A METHOD FOR GENERATING AN IMAGE THROUGH SYNTHESIS OF DATE ACQUIRED USING A PLURALITY OF PIXELS HAVING DIFFERENT LIGHT-RECEIVING TIME DURATIONS

(51) International classification	:H04N0009040000, G06T0005000000, G01S0017894000, A61B0005055000, H04N0005365000
(31) Priority Document No	:10-2018-0157332
(32) Priority Date	:07/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/017118 :05/12/2019
(87) International Publication No	:WO 2020/116967
(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)LEE, Changwoo
2)KIM, Dohan
3)BANG, Jinmin

(57) Abstract :
An electronic device is provided that includes an image sensor of first pixels receiving light for a first duration and second pixels receiving light for a shorter second duration, and a processor to acquire first and second raw data including first long pixel values through the first pixels and first short pixel values through the second pixels, second long pixel values through the first pixels and second short pixel values through the second pixels, and third raw data based on the first and second raw data. The third raw data includes third long pixel values and third short pixel values, and each of the third long pixel values is an average value of a first and a second long pixel value and each of the third short pixel values is a value obtained by gamma correcting a sum of a first and a second short pixel value.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025271 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LAMP CONTROL DEVICE

(51) International classification	:G01R0031383500, H02J0007000000, G01R0031396000, H05B0047190000, H05B0041040000
(31) Priority Document No	:2018-234402
(32) Priority Date	:14/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/046996 :02/12/2019
(87) International Publication No	:WO 2020/121864
(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)NAKAYAMA Masaaki

(57) Abstract :
A lamp control device comprises a first input terminal, a second input terminal, an output terminal that is configured to be connectable to a lamp via an external switch and outputs a drive current for the lamp, an internal switch provided on a first path connecting the first input terminal and the output terminal, a constant current section provided on a second path connecting the second input terminal and the output terminal, a voltage monitoring section that monitors a voltage applied to the output terminal, and a control section that controls the internal switch on the basis of a monitoring result from the voltage monitoring section.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025284 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MEMORY REQUEST CHAINING ON BUS

(51) International classification	:H04L0012911000, H04L0012400000, H04L0029060000, G06F0012020000, G06F0013380000
(31) Priority Document No	:16/221163
(32) Priority Date	:14/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/039433 :27/06/2019
(87) International Publication No	:WO 2020/122988
(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)ADVANCED MICRO DEVICES, INC.
(72)**Name of Inventor :**
1)NG, Philip
2)KALYANASUNDHARAM, Vydhyanathan

(57) Abstract :
Bus protocol features are provided for chaining memory access requests on a high speed interconnect bus, allowing for reduced signaling overhead. Multiple memory request messages are received over a bus. A first message has a source identifier, a target identifier, a first address, and first payload data. The first payload data is stored in a memory at locations indicated by the first address. Within a selected second one of the request messages, a chaining indicator is received associated with the first request message and second payload data. The second request message does not include an address. Based on the chaining indicator, a second address for which memory access is requested is calculated based on the first address. The second payload data is stored in the memory at locations indicated by the second address.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025292 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMPOSITION AND METHOD OF CONTROLLING INFECTIOUS DISEASES WITH FUNCTIONAL FRAGRANCES

(51) International classification	:A61K0008490000, A61K0008340000, A61K0008330000, A01N0035040000, A01N0035020000
(31) Priority Document No	:16/212966
(32) Priority Date	:07/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064254 :03/12/2019
(87) International Publication No	:WO 2020/117819
(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, Daryl, L.
2)VAN REES, Nicholas, A.
3)MEYER, Thomas, A.

(57) Abstract :
A composition comprises ß-pinene, bomeol, cinnamic aldehyde, citral, d-limonene, eucalyptol, eugenol, famesol, linalool, thymol, and vanillin. In addition, a method for use of the composition as an antibacterial and antiviral agent is also disclosed.

No. of Pages : 16 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025293 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ON-SCREEN KEYBOARD DETECTION FOR MULTI-FORM FACTOR INFORMATION HANDLING SYSTEMS (IHSS)

(51) International classification	:G06F0001160000, G06F0003023000, G06F0003048800, G06F0003048700, G06F0003010000
(31) Priority Document No	:16/192003
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060930 :12/11/2019
(87) International Publication No	:WO 2020/102201
(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)TORRES, Christopher A.
2)YILDIZ, Yagiz Can
3)KNEPPER, Larry Edward
4)TURCHIN, Kevin M.
5)IYER, Vivek Viswanathan
6)SEIBERT, Philip M.

(57) Abstract :
Embodiments of systems and methods for on-screen keyboard detection for multi-form factor Information Handling Systems (IHSs) are described. In an illustrative, non-limiting embodiment, an IHS may include a processor; and a memory coupled to the processor, the memory having program instructions stored thereon that, upon execution by the processor, cause the IHS to: detect a keyboard using a magnetic sensor; and determine, in response to the detection, a position of the keyboard relative to a display surface of a second display, where the second display is coupled to a first display via a hinge.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025294 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTI-FORM FACTOR INFORMATION HANDLING SYSTEM (IHS) WITH TOUCH CONTINUITY ACROSS DISPLAYS

(51) International classification	:G06F0003035400, G06F0001160000, G06F0003048800, G06F0003048700, G06F0003038000
(31) Priority Document No	:16/191845
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060876 :12/11/2019
(87) International Publication No	:WO 2020/102167
(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)SEIBERT, Philip M.
2)IYER, Vivek Viswanathan

(57) Abstract :
Embodiments of a multi-form factor Information Handling System (IHS) with touch continuity across displays are described. In an illustrative, non-limiting embodiment, an IHS may include a processor and a memory coupled to the processor, the memory having program instructions stored thereon that, upon execution by the processor, cause the IHS to: identify a posture of a first display relative to a second display; retrieve a touch continuity parameter corresponding to the posture; and enable touch continuity between the first and second displays using the touch continuity parameter.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021
(21) Application No.202117025296 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BATTERY PACK AND BATTERY SYSTEM

(51) International classification	:H01M0002100000, H01M0002020000, H01M0010613000, H01M0010625000, G02F0001133300
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2019/002519 :25/01/2019
(87) International Publication No	:WO 2020/152858
(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)YAMAMOTO, Hirofumi

(57) Abstract :
A battery pack according to an embodiment comprises a battery module, a frame, and a sheet member. The battery module comprises a plurality of batteries, and has a module bottom surface. The frame and the sheet member have electrically insulating properties, and a housing space for the battery module is formed by frame side walls of the frame. A frame protruding part protrudes from the frame side wall toward the inner periphery side, and supports the battery module from the side toward which the module bottom surface faces. The frame forms a through hole, wherein a protruding end of the frame protruding part constitutes at least a portion of the edge of the through hole. The sheet member is in tight contact with the module bottom surface of the battery module.

No. of Pages : 103 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025297 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HERBICIDAL COMPOUNDS

(51) International classification	:A61P0025160000, C10L0001190000, C07D0211780000, A61K0031541000, A01N0043200000
(31) Priority Document No	:201811042468
(32) Priority Date	:12/11/2018
(33) Name of priority country	:India
(86) International Application No Filing Date	:PCT/EP2019/080951 :12/11/2019
(87) International Publication No	:WO 2020/099367
(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)SCUTT, James, Nicholas
2)WILLETTS, Nigel, James
3)SONAWANE, Ravindra
4)PHADTE, Mangala
5)KANDUKURI, Sandeep, Reddy
6)SASMAL, Swarnendu

(57) Abstract :
Use of the compounds of the formula (I) wherein the substituents are as defined herein as herbicides. Compounds of formula (I) are also claimed.

No. of Pages : 103 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025298 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFLOW PART UNIT AND SETTLING TANK

(51) International classification	:C02F0103000000, F25B0039020000, C02F0003200000, C02F0001000000, B60R0011000000
(31) Priority Document No	:2018-240245
(32) Priority Date	:21/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/050158 :20/12/2019
(87) International Publication No	:WO 2020/130140
(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)TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION
(72)**Name of Inventor :**
1)KOJO, Kazutaka
2)TAKAHASHI, Hideaki

(57) Abstract :
An inflow part unit according to an embodiment comprises an inflow pipe, a storage part, and a first member. The inflow pipe is located around a rotation shaft that rotates a scraping plate in a settling tank. The storage part is located on the outside of the inflow pipe, and surrounds a first end, in a first direction, of the inflow pipe. The storage part can store water to be treated flowing into the inflow pipe through the first end. The first member is connected to a joining part that can be joined to the rotation shaft, and makes a relative movement along the inner bottom surface of the storage part.

No. of Pages : 42 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025299 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTI-FORM FACTOR INFORMATION HANDLING SYSTEM (IHS) WITH AUTOMATICALLY RECONFIGURABLE HARDWARE KEYS

(51) International classification	:G06F0003048700, G06F0001160000, G06F0015173000, G06F0003010000, G06F0003023000
(31) Priority Document No	:16/191924
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060922 :12/11/2019
(87) International Publication No	:WO 2020/102197
(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)SEIBERT, Philip M.
2)IYER, Vivek Viswanathan

(57) Abstract :
Embodiments of a multi-form factor Information Handling System (IHS) with automatically reconfigurable hardware keys with automatically reconfigurable hardware keys are described. In an illustrative, non-limiting embodiment, an IHS may include: a processor; and a memory coupled to the processor, the memory having program instructions stored thereon that, upon execution by the processor, cause the IHS to: identify a posture of a second display relative to a first display; and in response to a keyboard event, execute a command selected, at least in part, based upon the posture.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025302 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HCV DETECTION

(51) International classification	:C12Q0001700000, C07H0021000000, G01N0033576000, H04W0004100000, C12Q0001688800
(31) Priority Document No	:1819726.9
(32) Priority Date	:03/12/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/US2019/064182 :03/12/2019
(87) International Publication No	:WO 2020/117769
(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)RITCHIE, Allyson Victoria

(57) Abstract :
Methods for detecting Hepatitis C virus (HCV) nucleic acid are described. The methods are useful for point-of-care (POC) testing, and provide rapid tests able to detect several different HCV genotypes. Kits, primers, probes, sets of primers, sets of 5 oligonucleotides, and oligonucleotides, and their use in the methods, are also described.

No. of Pages : 25 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025309 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FLAME RETARDANT AND PREPARATION PROCESS THEREOF

(51) International classification	:C08L0077060000, C08L0077000000, C09K0021120000, C08K0005539900, C08L0077020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2018/115409 :14/11/2018
(87) International Publication No	:WO 2020/097825
(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)WOODWARD, Gary
2)LI, Junli
3)YANG, Yong

(57) Abstract :
Provided are a process for preparing a flame retardant, a flame retardant obtained by the process and use of the flame retardant in a polymer composition.

No. of Pages : 24 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025310 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IMPROVED SYNTHESIS OF KEY INTERMEDIATE OF KRAS G12C INHIBITOR COMPOUND

(51) International classification	:A61P0035000000, C07D0471040000, C07D0403060000, C07C0269060000, H01M0004620000
(31) Priority Document No	:62/768802
(32) Priority Date	:16/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061815 :15/11/2019
(87) International Publication No	:WO 2020/102730
(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)PARSONS, Andrew Thomas
2)COCHRAN, Brian McNeil
3)POWAZINIK, IV, William
4)CAPORINI, Marc Anthony

(57) Abstract :
The present invention relates to an improved, efficient, scalable process to prepare intermediate compounds, such as compound 5M, having the structure (I), useful for the synthesis of compounds that target KRAS G12C mutations, such as (II).

No. of Pages : 119 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025312 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ABSORBENT-ARTICLE PACKAGING BODY AND PACKAGE FOR ABSORBENT-ARTICLE PACKAGING BODY

(51) International classification	:A61F0013150000, A61F0013840000, A61F0013470000, A61F0013420000, A61F0013536000
(31) Priority Document No	:201811324442.6
(32) Priority Date	:08/11/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/JP2019/042382 :29/10/2019
(87) International Publication No	:WO 2020/095762
(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)MU, Qinyi
2)KASHIWAGI, Masahiro
3)JIANG, Wei
4)MA, Xueqi

(57) Abstract :
An absorbent-article packaging body (40) having: a first material design (51) for indicating information relating to a material of an absorbent article (1), the first material design (51) being visible from outside the absorbent-article packaging body (40); a second material design (52) for indicating information relating to the material, the second material design (52) being visible in a state in which the absorbent-article packaging body (40) is at least partially unfolded; and a reminding design (54) for bringing to mind a specific concept of the absorbent article (1), the reminding design (54) being visible at the same time as the second material design (52) or in a state in which the absorbent-article packaging body (40) is further unfolded after the second material design (52) is visually recognized, and being provided to the absorbent article (1) so as to be visible from a the skin-side surface of the absorbent article (1).

No. of Pages : 38 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025319 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NON-ATP/CATALYTIC SITE P38 MITOGEN ACTIVATED PROTEIN KINASE INHIBITORS

(51) International classification	:C07D0217020000, C07D0279020000, C07D0471040000, A61P0035000000, A61K0031537500
(31) Priority Document No	:62/776837
(32) Priority Date	:07/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064960 :06/12/2019
(87) International Publication No	:WO 2020/118194
(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)SHAPIRO, Paul, S.
2)MACKERELL, Alexander, D., JR.
3)HASDAY, Jeffrey, D.
4)FLETCHER, Steven

(57) Abstract :
Compounds that inhibit p38a MAPK protein, and methods of using the same, are provided for treating or preventing diseases such as cancer or inflammatory diseases.

No. of Pages : 166 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025330 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TRACK LIFTING AND LINING DEVICE AND TRACK LIFTING AND LINING OPERATION METHOD

(51) International classification	:E01B0027170000, E01B0029220000, E01B0029040000, E01B0035000000, E01B0027100000
(31) Priority Document No	:201910424350.3
(32) Priority Date	:21/05/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/071974 :14/01/2020
(87) International Publication No	:WO 2020/233153
(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)YE, Yongqin
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6)HU, Shizhou
7)WANG, Hongbing
8)TAO, Jun
9)YANG, Xiaomei
10)LIU, Gang
11)FU, Lang
12)CAI, Wentao
13)PAN, Yong
14)JI, Changjie
15)WANG, Yuzhu
16)YUE, Feng
17)WANG, Hong

(57) Abstract :
Disclosed are a track lifting and lining device and a corresponding track lifting and lining method. The track lifting and lining device comprises a track lifting and lining frame (1), a track lifting device (2) and a track lining device (3) being mounted on the track lifting and lining frame (1), and the track lifting device (2) comprising a track lifting wheel (23) and a track lifting hook (24), characterized in that both the track lifting wheel (23) and the track lifting hook (24) are connected to a track lifting switching mechanism (25), and operation postures of the track lifting wheel (23) and the track lifting hook (24) are changed by means of the track lifting switching mechanism (25). The track lifting device provided by the present invention includes the track lifting wheel and the track lifting hook, and a steel rail full-range track lifting operation can be realized; the track lifting wheel and the track lifting hook can be adjusted in a Y direction, and track lifting operations in curves and turnout areas can be achieved; and the use of the track lifting wheel and the track lifting hook can be seamlessly switched by means of the track lifting switching mechanism, the structure is compact, and same is easy and fast to operate.

No. of Pages : 11 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025333 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MINI-NUCLEOSOME CORE PROTEINS AND USE IN NUCLEIC ACID DELIVERY

(51) International classification	:A61K0048000000, C12N0015870000, C07K0014470000, A61K0047640000, A61K0038000000
(31) Priority Document No	:62/757683
(32) Priority Date	:08/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060119 :06/11/2019
(87) International Publication No	:WO 2020/097235
(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)KOIRALA, Adarsha

(57) Abstract :
The present disclosure provides compositions and methods relating to mini-nucleosome core proteins and/or delivery of nucleic acids. In particular, the present disclosure includes, among other things, non-viral proteinaceous vehicles for delivery of nucleic acids. In various embodiments, non-viral proteinaceous vehicles provided herein include (a) a nucleic acid binding domain; (b) a targeting domain; and, optionally, (c) a nucleic acid release domain, stability domain, and/or an oligomerization domain, and/or a linker domain.

No. of Pages : 133 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025335 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : T CELL RECEPTORS SPECIFIC FOR MESOTHELIN AND THEIR USE IN IMMUNOTHERAPY

(51) International classification	:A61K0039000000, C12N0015100000, C07K0014470000, C12N0015630000, C07K0014005000
(31) Priority Document No	:62/758397
(32) Priority Date	:09/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060570 :08/11/2019
(87) International Publication No	:WO 2020/097530
(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)CHAPUIS, Aude G.
3)GREENBERG, Philip D.

(57) Abstract :
Binding proteins specific for Msln20-28 or Msln530-538 peptides are provided herein. Polynucleotides encoding the binding proteins, as well as compositions and recombinant host cells comprising the binding proteins or polynucleotides are also provided. The compositions and recombinant host cells may be used to treat a subject having mesothelioma, pancreatic cancer, ovarian cancer, lung cancer, a cancer wherein an Msln20-28 peptide is expressed on a tumor cell of the cancer, or a cancer wherein an Msln530-538 peptide is expressed on a tumor cell of the cancer.

No. of Pages : 104 No. of Claims : 97

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025338 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CANNABIS PLANTS WITH A CANNABINOID PROFILE ENRICHED FOR CANNABIDIOL AND-9-TETRAHYDROCANNABINOL

(51) International classification	:A61K0031352000, A61K0031050000, A61K0036185000, A61K0031192000, A61K0045060000
(31) Priority Document No	:2018904285
(32) Priority Date	:09/11/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/AU2019/051230 :08/11/2019
(87) International Publication No	:WO 2020/093102
(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)ELKINS, Aaron Christopher
2)ROCHFORT, Simone Jane
3)COGAN, Noel
4)SPANGENBERG, German Carlos

(57) Abstract :
The present disclosure relates generally to new cannabis plants, including parts, extracts and uses thereof, comprising a cannabinoid profile enriched for total CBD (i.e., cannabidiol (CBD) and cannabidiolic acid (CBDA)) and for total THC (i.e.,-9-tetrahydrocannabinol (THC) and-9-tetrahydrocannabinolic acid (THCA)).

No. of Pages : 78 No. of Claims : 64

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025339 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PLANTS WITH A CANNABINOID PROFILE ENRICHED FOR CANNABIDIOL

(51) International classification	:A61K0031050000, A61K0036185000, A61K0031352000, A61K0031192000, C12N0015820000
(31) Priority Document No	:2018904285
(32) Priority Date	:09/11/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/AU2019/051229 :08/11/2019
(87) International Publication No	:WO 2020/093101
(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)ELKINS, Aaron Christopher
2)ROCHFORT, Simone Jane
3)COGAN, Noel
4)SPANGENBERG, German Carlos

(57) Abstract :
The present disclosure relates generally to new cannabis plants, including parts, extracts and uses thereof, comprising a cannabinoid profile enriched for total CBD (i.e., cannabidiol (CBD) and cannabidiolic acid (CBDA)).

No. of Pages : 82 No. of Claims : 72

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025340 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CANNABIS PLANTS WITH A CANNABINOID PROFILE ENRICHED FOR-9-TETRAHYDROCANNABINOL AND CANNABIGEROL

(51) International classification	:A61K0031352000, A61K0031353000, A61K0031050000, A61P0001000000, C12P0007420000
(31) Priority Document No	:2018904285
(32) Priority Date	:09/11/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/AU2019/051231 :08/11/2019
(87) International Publication No	:WO 2020/093103
(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)ELKINS, Aaron Christopher
2)ROCHFORT, Simone Jane
3)COGAN, Noel
4)SPANGENBERG, German Carlos

(57) Abstract :
The present disclosure relates to new cannabis plants, including parts, extracts and uses thereof, comprising a cannabinoid profile enriched for total THC (i.e.,-9-tetrahydrocannabinol (THC) and-9-tetrahydrocannabinolic acid (THCA)) and total CBG (i.e., cannabigerol (CBG) and cannabigerolic acid (CBGA)).

No. of Pages : 73 No. of Claims : 67

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025341 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CANNABIS PLANTS WITH A CANNABINOID PROFILE ENRICHED FOR-9-TETRAHYDROCANNABINOL, CANNABIGEROL AND TETRAHYDROCANNABIVARIN

(51) International classification	:A61K0031352000, A61K0031353000, A61K0031050000, A61K0036185000, C12N0015820000
(31) Priority Document No	:2018904285
(32) Priority Date	:09/11/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/AU2019/051232 :08/11/2019
(87) International Publication No	:WO 2020/093104
(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)ELKINS, Aaron Christopher
2)ROCHFORT, Simone Jane
3)COGAN, Noel
4)SPANGENBERG, German Carlos

(57) Abstract :
The present disclosure relates generally to new cannabis plants, including parts, extracts and uses thereof, comprising a cannabinoid profile enriched for total THC (i.e.,-9-tetrahydrocannabinol (THC) and-9-tetrahydrocannabinolic acid (THCA), total CBG (i.e., cannabigerol (CBG) and cannabigerolic acid (CBGA)), and total THCV (i.e., tetrahydrocannabivarin (THCV) and tetrahydrocannabivarinic acid (THCVA)).

No. of Pages : 71 No. of Claims : 66

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021

(21) Application No.202117025343 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR PRODUCING SECRETED ß-GALACTOSIDASE

(51) International classification	:A61K0038000000, C12N0015810000, C12N0015800000, C12P0019140000, C12R0001690000
(31) Priority Document No	:2018-212757
(32) Priority Date	:13/11/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/043629 :07/11/2019
(87) International Publication No	:WO 2020/100706
(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)ISHIKAWA Eiji
2)IKEDA Masakazu
3)ANBE Minako
4)HATANO Hiroshi

(57) Abstract :
A method for producing secreted ß-galactosidase, characterized by integrating a non-secreted ß-galactosidase gene derived from basidiomycetous yeast into Aspergillus oryzae to produce secreted ß-galactosidase; and a method for producing a galactooligosaccharide using ß-galactosidase produced by the aforementioned method. According to these methods, a galactooligosaccharide can be produced easily.

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/06/2021
(21) Application No.202117025355 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LIQUID CRYSTAL DISPLAY SCREEN, ELECTRONIC DEVICE, AND METHOD FOR MANUFACTURING LIQUID CRYSTAL DISPLAY SCREEN

(51) International classification	:G02F0001133500, G02F0001133570, H04M0001020000, G02F0001133300, G02F0001133000
(31) Priority Document No	:201811565388.4
(32) Priority Date	:20/12/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/122319 :02/12/2019
(87) International Publication No	:WO 2020/125387
(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)MA, Lei
2)WANG, Peng
3)XIAO, Guangnan
4)ZHANG, Feng
5)SU, Binbin

(57) Abstract :
Disclosed are a liquid crystal display screen (30), an electronic device (100), and a method for manufacturing the liquid crystal display screen (30) for improving the screen-to-body ratio of the liquid crystal display screen (30). The liquid crystal display screen (30) has a transmitting area (301), a shading area (302) and a display area (303), and comprises a liquid crystal cell (12), a lower polarizer (13) and a backlight module (2), which are arranged in a stacked manner in sequence, wherein the part of the liquid crystal cell (12) located in the transmitting area (301) is configured to allow visible light to pass through; the part of the liquid crystal cell (12) located in the shading area (302) is configured to block visible light; the part of the liquid crystal cell (12) located in the display area (303) is configured to display an image; the lower polarizer (13) covers the display area (303) and is provided with a transmitting hole (131), with a hole wall (1311) of the transmitting hole (131) being located in the shading area (302); the backlight module (2) comprises a bracket (22), with an inner hole side part (222) of the bracket (22) being located in the shading area (302); and the liquid crystal display screen (30) further comprises a shading piece (3), the shading piece (3) being located in the shading area (302) and continuously surrounding the transmitting area (301), and the shading piece (3) being connected to the liquid crystal cell (12), the hole wall (1311) of the transmitting hole (131), and the inner hole side part (222).

No. of Pages : 46 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025362 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTROCHEMICAL DEVICE FOR PURIFYING A FLUID, IN PARTICULAR WASTE WATER

(51) International classification	:B01J0037020000, A61K0008290000, B01D0053860000, H01M0002160000, C02F0101320000
(31) Priority Document No	:1872477
(32) Priority Date	:07/12/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2019/052944 :05/12/2019
(87) International Publication No	:WO 2020/115442
(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)RAFFY, Stéphane
2)BOUSSANT-ROUX, Yves Marcel Léon
3)SALLES, Corinne
4)AUBERT, Brice

(57) Abstract :
The invention relates to an electrochemical device for purifying a fluid, in particular waste water or sludges, comprising a filtering electrochemical membrane, said membrane comprising: - a metal support, in particular in the form of a grid, of a tissue or of a foam having open pores, said support being permeable to said fluid, - a coating layer of said support, comprising or preferably consisting of a titanium oxide of general formula TiOx, wherein x is between 1.5 and 1.9.

No. of Pages : 23 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025389 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CABLE PUSHER AND RELATED METHODS

(51) International classification	:B08B0009045000, E21B0041000000, A61B0017040000, B25C0005160000, A61B0017290000
(31) Priority Document No	:62/783280
(32) Priority Date	:21/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/067889 :20/12/2019
(87) International Publication No	:WO 2020/132464
(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)HINSHAW, Gregory, E.
2)KYSLINGER, Bill
3)STEYN, Jaco

(57) Abstract :
An apparatus serves to grip a cable for delivery into a borehole in a surface of a mine passage in connection with an actuator, such as a drill mast having a carriage capable of being advanced and retracted along the drill mast. A pusher is formed from a pair of jaws for engaging the cable. The jaws may be biased toward a first position for engaging the cable during an advance of the carriage, and automatically movable to a second position for releasing from engagement with the cable during a retraction of the carriage. The pusher may be pivotally mounted to a carriage capable of being advanced and retracted along a drill mast, which movement may cause the jaws to self-actuate for engaging and advancing the cable during an upstroke and release therefrom during a downstroke. Related methods are also disclosed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025411 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : GLAZING UNIT AND METHOD FOR PRODUCING SAME

(51) International classification	:B32B0017100000, E06B0003663000, E06B0003670000, H05B0003860000, H05B0003840000
(31) Priority Document No	:19159554.5
(32) Priority Date	:27/02/2019
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2020/054337 :19/02/2020
(87) International Publication No	:WO 2020/173785
(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)NEANDER, Marcus
2)BERGS, Bianca

(57) Abstract :
The invention relates to a glazing unit (1; 1') which has at least a first and second glass or plastics pane (3, 6; 6'), which are connected to one another at a predetermined distance via a spacer profile (4; 4') or a thermoplastic intermediate layer, at least one (6') of the first and second glass or plastics panes comprising, on the inner side of the glazing unit, a transparent electrically conductive coating (9) and, in an edge region thereof, a bus bar (10) for the electrical connection of the conductive coating, the bus bar being provided, at least over the majority of its surface, with an opaque covering (11).

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025417 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BICYCLIC DERIVATIVES

(51) International classification	:C07D0513040000, C07D0241040000, C07D0295260000, C07D0237260000, C07C0317440000
(31) Priority Document No	:62/781073
(32) Priority Date	:18/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/066298 :13/12/2019
(87) International Publication No	:WO 2020/131629
(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)DUCRAY, Pierre
2)PAUTRAT, Francois
3)RAGEOT, Denise
4)TAHTAOUI, Chouaib

(57) Abstract :
The present invention provides compounds of formula (I): which are useful in the control of endoparasites, for example heartworms, in warm-blooded animals.

No. of Pages : 82 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021
(21) Application No.202117025419 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : GLUE LAMINATION CORE FOR STATORS AND METHOD FOR MANUFACTURING SAME, AND ROTATING ELECTRICAL MACHINE

(51) International classification	:C21D0008120000, H01M0010040000, C09J0004060000, H01F0003020000, H01F0041020000
(31) Priority Document No	:2018-235869
(32) Priority Date	:17/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/049303 :17/12/2019
(87) International Publication No	:WO 2020/129946
(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)TAKEDA Kazutoshi
2)FUJII Hiroyasu
3)TAKATANI Shinsuke

(57) Abstract :
Provided is a glue lamination core for stators, which can reduce the iron loss in a rotating electrical machine and has excellent productivity. A glue lamination core for stators, comprising: a plurality of electromagnetic steel sheets which are laminated on each other, and each of which is coated on both surfaces with an insulating coating film; and bonding parts each of which is provided between a set of the electromagnetic steel sheets adjacent to each other in the lamination direction, and can bond the set of the electromagnetic steel sheets to each other. In the glue lamination core for stators, all sets of the electromagnetic steel sheets adjacent to each other in the lamination direction are bonded to one another respectively through the bonding parts, an adhesive agent forming the bonding parts comprises an acrylic compound, an oxidizing agent and a reducing agent and is a two-part acrylic adhesive agent (SGA) composed of a first preparation containing a portion of the acrylic compound and the oxidizing agent and a second preparation containing the remainder of the acrylic compound and the reducing agent, and each of the bonding parts is provided partially between each set of the electromagnetic steel sheets adjacent to each other in the lamination direction.

No. of Pages : 47 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021
(21) Application No.202117025420 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : RESIN COMPOSITION CONTAINING 4-METHYL-1-PENTENE COPOLYMER, AND FILM FOR CAPACITORS

(51) International classification	:C08L0023080000, B32B0027080000, C08K0007140000, C08L0061060000, C08L0025120000
(31) Priority Document No	:2018-227480
(32) Priority Date	:04/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/046939 :02/12/2019
(87) International Publication No	:WO 2020/116368
(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)OKAMOTO Masahiko
3)NAKANO Makoto
4)SASAKI Toyoaki
5)TANAKA Masakazu

(57) Abstract :
A resin composition which contains a 4-methyl-1-pentene copolymer (A) that satisfies a specific requirement and a 4-methyl-1-pentene copolymer (B) that satisfies a specific requirement, and which is configured such that the content of the copolymer (A) is 10-95 parts by mass and the content of the copolymer (B) is 90-5 parts by mass if the total content of the copolymers (A) and (B) is taken as 100 parts by mass.

No. of Pages : 147 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025423 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MODULAR OSCILLOMETRY DEVICE WITH DYNAMIC CALIBRATION

(51) International classification	:A61B0005000000, A61B0005080000, A61B0005087000, A61B0005110000, F24F0011300000
(31) Priority Document No	:62/758011
(32) Priority Date	:09/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2019/051603 :11/11/2019
(87) International Publication No	:WO 2020/093176
(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)SCHUESSLER, Thomas Florian
2)DRAPEAU, Guy
3)POSADA ESTEFAN, Lucas
4)MAKSYM, Geoffrey Nicholas

(57) Abstract :
A module for an oscillometry system of the type having an oscillatory flow source, the module comprises an enclosure adapted to be releasably connected to a core assembly of the oscillometry system. The enclosure defines a breathing flow pathway adapted to be in fluid communication with the oscillatory flow source. A user port is at a first end of the breathing flow pathway configured for receiving a breath of a user. A calibration file specific to the module is programmed as a function of the breathing flow pathway and configured for being used by the oscillometry system to assess breathing parameters for the user.

No. of Pages : 20 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021
(21) Application No.202117025427 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEVICE FOR MEASURING BLOOD LIPID CONCENTRATION AND METHOD THEREFOR

(51) International classification	:A61B0005145500, A61B0005000000, A61B0008060000, A61B0005026000, A61B0005145000
(31) Priority Document No	:2018-218318
(32) Priority Date	:21/11/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/045477 :20/11/2019
(87) International Publication No	:WO 2020/105682
(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)IINAGA, Kazuya

(57) Abstract :
[Problem] To provide a device for measuring the concentration of lipid by a noninvasive lipid measurement and a method therefor.
[Solution] The present invention includes: an irradiation unit that irradiates a living body with light with the angle between the surface of the living body and the optical axis being a predetermined angle of 45 to 175°; a light intensity detection unit that is positioned at a predetermined distance from the irradiation unit and measures light intensity reflected from the living body; and a control unit that calculates the amount of turbulence of blood flow on the basis of the light intensity and calculates lipid concentration on the basis of the amount of turbulence of blood flow.

No. of Pages : 33 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025449 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADHESIVE DISPENSER WITH SLOTTED NOZZLE ASSEMBLY

(51) International classification	:B05C0005020000, B05B0011000000, B05C0011100000, B05C0005000000, F04D0029220000
(31) Priority Document No	:62/770205
(32) Priority Date	:21/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/062546 :21/11/2019
(87) International Publication No	:WO 2020/106923
(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)QIU, Zhongquan

(57) Abstract :
An adhesive dispenser having a pump and a slotted nozzle assembly is disclosed. The pump includes a pump body assembly having a nozzle body defining a recess that extends into the body, and a fluid channel with an inlet to receive adhesive and an outlet open to the recess. The pump includes a valve member movably disposed in the fluid channel and configured to selectively block the adhesive from flowing to the outlet. The slotted nozzle assembly includes a baffle plate having a slot that extends through the plate and a cover plate attached to the plate. The slotted nozzle assembly is received in the recess of the nozzle body, such that an input channel extending from the outlet of the body to the slot is defined between the baffle plate and the nozzle body, and an output channel extending from the slot to a dispensing outlet is defined between the baffle plate and the cover plate.

No. of Pages : 25 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025450 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SPIRAL WOUND FILTRATION DEVICE AND METHODS OF MANUFACTURE

(51) International classification	:B01D0063100000, B01D0065000000, B01D0063020000, B32B0003080000, H01H0003120000
(31) Priority Document No	:62/779860
(32) Priority Date	:14/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064580 :05/12/2019
(87) International Publication No	:WO 2020/123243
(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)LANDRY, Nathan
2)STRAEFFER, Gregory
3)NATALE, Matthew

(57) Abstract :
A spiral wound membrane module, comprising a perforated core having an axially extending internal bore; at least one membrane packet comprising a folded membrane sheet defining a first outer face, a first inner face, a second outer face and a second inner face, the fold of the folded membrane sheet being a leading end of the membrane packet; a feed sheet positioned between the first and second inner faces so as to be sandwiched by the folded membrane sheet; a first permeate screen adjacent the first outer face of the membrane sheet defining a first permeate channel; a second permeate screen adjacent the second outer face of the membrane sheet defining a second permeate channel; and a fluid impermeable support coupled to the leading edge of the membrane packet. Also disclosed is a method of manufacturing the spiral wound membrane module.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025453 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TIME SYNCHRONIZATION METHOD AND DEVICE, AND STORAGE MEDIUM

(51) International classification	:H04J0003060000, H04L0007000000, F27D0019000000, H04L0012741000, G06F0013400000
(31) Priority Document No	:201811355259.2
(32) Priority Date	:14/11/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/109205 :29/09/2019
(87) International Publication No	:WO 2020/098409
(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)SANECHIPS TECHNOLOGY CO., LTD.
Address of Applicant :ZTE Industrial Park, Liuxian Avenue, Xili Street, Nanshan District, Shenzhen, Guangdong 518055 China
(72)**Name of Inventor :**
1)CHEN, Sisi

(57) Abstract :
Disclosed in embodiments of the present application are a time synchronization method and device, and a storage medium. The method comprises: searching, at a SERDES parallel interface, for a synchronized block matching a preset code pattern in a data stream; determining the position of the bit of the synchronized block in the SERDES parallel interface as a first position; determining a time point when the synchronized block passes through the SERDES parallel interface as a first time point; searching, at PHY layer and MAC layer interfaces, for the synchronized block and a PTP packet in the data stream, and determining a distance between the synchronized block and the PTP packet; and determining a second time point according to the first position, the first time point, and the distance, the second time point being the time point when the PTP packet passes through the SERDES parallel interface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025461 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMMUNICATION DEVICE AND COMMUNICATION METHOD

(51) International classification	:H04L0001180000, H04W0072040000, H04W0092180000, H04W0076140000, H04W0008000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/048283 :27/12/2018
(87) International Publication No	:WO 2020/136838
(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)YOSHIOKA, Shohei
2)NAGATA, Satoshi
3)WANG, Huan

(57) Abstract :
This communication device comprises: a transmission unit which transmits, on an inter-terminal direct communication feedback channel, inter-terminal direct communication feedback control information including a hybrid automatic repeat request (HARQ) response,; and a control unit which when the inter-terminal direct communication feedback channel and another inter-terminal direct communication channel overlap, performs control such that the inter-terminal direct communication feedback control information is multiplexed on the other inter-terminal direct communication channel and transmitted.

No. of Pages : 33 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025467 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEM FOR ELONGATION CONTROL IN CONVEYOR BELTS

(51) International classification	:G01N0027720000, H03K0017970000, B65H0005020000, G11C0011160000, A61B0001000000
(31) Priority Document No	:18382983.7
(32) Priority Date	:21/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/080074 :04/11/2019
(87) International Publication No	:WO 2020/126184
(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)SAN MIGUEL NUÑEZ, Javier

(57) Abstract :
The present invention relates to a system and a method for elongation control in conveyor belts (2), where said conveyor belt (2) houses at least one magnetic element (3) in one and the same position, at an identical separation or distance (d) which is equal to the pitch of the conveyor belt (2) and comprising means configured for varying the magnetic field induced by each magnetic element (3) said magnetic field being induced such that the magnetic elements (3) between adjacent pitches of the conveyor belt (2) are attracted to one another.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025468 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IMAGE PROCESSING APPARATUS AND METHOD OF OPERATING THE SAME

(51) International classification	:G06N0003040000, G06N0003080000, G06T0005000000, G10L0015160000, G06K0009620000
(31) Priority Document No	:10-2018-0141951
(32) Priority Date	:16/11/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/009298 :26/07/2019
(87) International Publication No	:WO 2020/101143
(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)HWANG, Chanyoung
2)LEE, Wonjae
3)CHO, Insang

(57) Abstract :
An image processing apparatus processes an image by using one or more neural networks, and includes a memory storing one or more instructions and data structures for a main neural network and a sub-neural network, and a processor configured to execute the one or more instructions stored in the memory to process an input image by using the main neural network to obtain intermediate result data and a final output image, and to process the intermediate result data by using the sub-neural network to output an intermediate image while the input image is being processed by using the main neural network.

No. of Pages : 32 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025469 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR MANUFACTURING A DEVICE FOR DISPENSING A PRODUCT

(51) International classification	:B65B0003170000, B05B0011000000, B29C0070440000, B30B0009220000, A23G0009280000
(31) Priority Document No	:FR1871476
(32) Priority Date	:09/11/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2019/076978 :04/10/2019
(87) International Publication No	:WO 2020/094304
(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)BOULAIS, Guillaume

(57) Abstract :
The present invention concerns a method for manufacturing a device (1) for dispensing a product, comprising: providing a device (1) comprising a vessel (3), the vessel being connected to a deformable chamber (45) and being provided with a filling opening (8), the inside of the deformable chamber being delimited at least partially by a movable wall (13), the movement of which results in a variation in the volume of the deformable chamber, a step of filling the deformable chamber (45) through a filling valve (41), a step of filling the vessel (3) with product (16), and a closing step in which the filling opening (8) is closed. The invention can be used, for example, in the pharmaceutical, cosmetic or food-processing industries.

No. of Pages : 12 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025471 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ORAL CARE COMPOSITIONS AND METHODS FOR THE SAME

(51) International classification	:A61Q0011000000, A61K0008220000, A61K0008370000, A61K0008730000, A61K0008190000
(31) Priority Document No	:PCT/US2018/067549
(32) Priority Date	:26/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2018/067549 :26/12/2018
(87) International Publication No	:WO 2020/139328
(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)YUAN, Shaotang
2)PIMENTA, Paloma
3)DOGO-ISONAGIE, Cajetan

(57) Abstract :
Oral care compositions and methods for whitening teeth are provided. The oral care composition may include an orally acceptable vehicle, a whitening booster, and a source of hydrogen peroxide. The whitening booster may be dispersed in the orally acceptable vehicle. The whitening booster may include a salt of a monopersulfate, such as an alkali metal salt of the monopersulfate.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025472 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HIGH RESOLUTION MULTIPLEXING SYSTEM

(51) International classification	:A61B0006030000, H04L0029060000, G01J0011000000, C08G0059400000, G01T0003060000
(31) Priority Document No	:62/767186
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/CA2019/051625 :14/11/2019
(87) International Publication No	:WO 2020/097732
(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)PACAK, John Stephen
3)NELL, Peter Condie

(57) Abstract :
A method is provided for measuring time varying particle fluxes with improved temporal resolution and signal to noise ratio. The particles can be photons, neutrons, electrons or electrically charged particles. The method includes a set of electronic and/or optical components and a set of algorithms that implement N-fold temporal multiplexing of the input flux. The system can be used to measure other types of flux by using a transducer to convert the flux into a compatible form. The system can include a transducer such as a scintillator that operates to convert particle flux incident into a photon flux proportional to the amplitude of particle flux. The invention can be used with multiplexing methods known to those skilled in the art, for example Hadamard and Fourier methods.

No. of Pages : 20 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025474 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEVICE, EXCHANGE UNIT, KIT, AND METHOD FOR REDUCING THE ODOR OF TANNED LEATHER

(51) International classification	:D06N0003000000, A61K0031000000, A43B0023020000, A23K0010300000, A23K0050420000
(31) Priority Document No	:10 2018 131 624.0
(32) Priority Date	:10/12/2018
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2019/084186 :09/12/2019
(87) International Publication No	:WO 2020/120383
(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)AMPUERO, Rodolfo
3)SCHULTE-GAUCZINSKI, Nina
4)MEJIAS, Lorenzo

(57) Abstract :
The invention relates to a device (1) for reducing the odor of tanned leather, comprising a treatment chamber (2), which is designed to dry tanned leather and/or treat dried leather, and at least one odor reducing reservoir (3), wherein the at least one odor reducing reservoir (3) has at least one odor-neutralizing substance (4), and a gas-exchange connection (5) is provided between the treatment chamber (2) and the odor reducing reservoir (3).

No. of Pages : 25 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025487 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SUBSTITUTED ARYLMETHYLUREAS AND HETEROARYLMETHYLUREAS, ANALOGUES THEREOF, AND METHODS USING SAME

(51) International classification	:A61P0031200000, C07D0487040000, A61K0031415000, A61K0031506000, C07F0009656100
(31) Priority Document No	:62/778471
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065756 :11/12/2019
(87) International Publication No	:WO 2020/123674
(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)COLE, Andrew G.
2)FAN, Yi
3)KULTGEN, Steven
4)MESAROS, Eugen

(57) Abstract :
The present invention includes substituted arylmethyl ureas and heteroarylmethyl-ureas, and compositions comprising the same, that can be used to treat or prevent hepatitis B virus (HBV) infections in a patient.

No. of Pages : 611 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025494 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEVICE FOR THE NEEDLE TUBE OF A SYRINGE

(51) International classification	:A61M0005320000, E05C0003240000, A61M0005310000, A61B0005150000, G01N0035100000
(31) Priority Document No	:20 2018 107 232.3
(32) Priority Date	:18/12/2018
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2019/079383 :28/10/2019
(87) International Publication No	:WO 2020/126176
(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)MOHR, Bernd
(72)**Name of Inventor :**
1)FISCHER, Stephan
2)WILKE, Tobias
3)MOHR, Bernd

(57) Abstract :
The invention relates to a device (1) for the needle tube (2) of a syringe, comprising a housing (4), which can pivot on a carrier element (3) for the needle tube (2) and which has an open housing side (7) in the pivoting plane (6) of the housing (4) such that the needle tube (2) can be swung into the housing (4) in order to be held there after being used for injection. According to the invention, the arrangement of the rear free end (8) of the needle tube (2) in the carrier element (3) enables controlled piercing of the wall (9) of a container (10) that is replaceable in the carrier element (3).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025500 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CRYSTALLINE FORMS OF 1-[(3R,4S)-4-CYANOTETRAHYDROPYRAN-3-YL]-3-[(2-FLUORO-6-METHOXY-4-PYRIDYL)AMINO]PYRAZOLE-4-CARBOXAMIDE

(51) International classification	:C07D0471020000, C07D0401040000, C07C0233220000, C07D0497040000, A61P0017000000
(31) Priority Document No	:18212191.3
(32) Priority Date	:13/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/084898 :12/12/2019
(87) International Publication No	:WO 2020/120679
(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)VARSOLONA, Richard, J
5)CODAN, Lorenzo
6)CLEATOR, Edward
7)GOODYEAR, Adrian
8)SIMMONS, Jonathan
9)SCHWEISEL, Tanja

(57) Abstract :
The present application relates to crystalline forms of 1-[(3R,4S) -4-cyanotetrahydropyran-3-yl]-3-[(2-fluoro-6-methoxy-4-pyridyl) amino]pyrazole-4-carboxamide and processes for the preparation thereof. The compound is useful for the treatment of JAK-mediated diseases or conditions such as atopic dermatitis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025501 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMBINATION THERAPY FOR TREATING MUSCULAR DYSTROPHY

(51) International classification	:C12N0015860000, C12N0015113000, A61K0048000000, C07K0014470000, C12N0015110000
(31) Priority Document No	:62/778646
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065718 :11/12/2019
(87) International Publication No	:WO 2020/123645
(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)MORGAN, Kathy, Ye
4)TSENG, Wen, Allen
5)OZSOLAK, Fatih
6)SOUSTEK-KRAMER, Meghan
7)REYES, Eric
8)MANDAVA, Sarath

(57) Abstract :
The invention described herein provides gene therapy vectors, such as adeno-associated virus (AAV) vectors, that co-express a functional protein (such as a miniaturized human micro-dystrophin gene product) and one or more additional coding sequences for an RNAi sequence (siRNA, shRNA, miRNA), an antisense sequence, a guide sequence for a gene editing enzyme (such as an sgRNA for CRISPR/Cas9, or a crRNA for CRISPR/Cas12a), and/or a microRNA, and methods of using the vectors to treat subjects suffering from a muscular dystrophy such as DMD / BMD.

No. of Pages : 83 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025502 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : APPLICATION MANAGEMENT FOR MULTI-FORM FACTOR INFORMATION HANDLING SYSTEM (IHS)

(51) International classification	:G06F0001160000, G06F0003010000, G06F0003048700, G06F0003023000, B01L0007000000
(31) Priority Document No	:16/191790
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060868 :12/11/2019
(87) International Publication No	:WO 2020/102161
(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)SEIBERT, Philip M.
2)IYER, Vivek Viswanathan

(57) Abstract :
Embodiments of systems and methods for application management for a multi-form factor Information Handing System (IHS) are described. In an illustrative, non-limiting embodiment, an IHS may include a processor and a memory coupled to the processor, the memory having program instructions stored thereon that, upon execution by the processor, cause the IHS to: produce a work area on a second display, wherein the second display is coupled to a first display via a hinge; detect that a keyboard is placed on the second display; and in response to the detection, reduce the work area into one or more areas unobstructed by the keyboard.

No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025503 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : USE OF NATURAL-ABUNDANCE STABLE ISOTOPES AND DNA GENOTYPING FOR IDENTIFYING BIOLOGICAL PRODUCTS

(51) International classification	:G06Q0010080000, G06T0007000000, G06K0009000000, C40B0040060000, C12Q0001685800
(31) Priority Document No	:62/769939
(32) Priority Date	:20/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061745 :15/11/2019
(87) International Publication No	:WO 2020/106577
(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)JASPER, John, P.

(57) Abstract :
The combined use of natural-abundance stable-isotopic analysis of bulk materials and DNA genotyping of biological materials is a highly-specific (1 :1 x 1017) fingerprinting method for identifying such products in supply chains.

No. of Pages : 18 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025504 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PARAQUAT FORMULATION

(51) International classification	:A01N0043900000, A01N0043400000, A61K0008490000, A01N0025040000, A01N0037360000
(31) Priority Document No	:16/194624
(32) Priority Date	:19/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/EP2019/081615 :18/11/2019
(87) International Publication No	:WO 2020/104359
(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)THOMSON, Niall, Rae
2)NELSON, King,
3)TOVEY, Ian, David
4)RAMSAY, Guy

(57) Abstract :
The present invention relates to pesticidal emulsions comprising an aqueous continuous phase comprising paraquat and at least one polyvinylalcohol or polyvinylalcohol derivative; a dispersed oil phase; a pesticidal active ingredient; and at least two polymeric surfactants selected from a sorbitan ester and an ethoxylated sorbitan ester. It also relates to the use of a pesticidal emulsion to control undesired vegetation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025505 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MITOCHONDRIA-TARGETING PEPTIDES

(51) International classification	:C07D0471040000, A61P0009100000, C07D0317720000, A61K0031437000, C07K0005072000
(31) Priority Document No	:62/781153
(32) Priority Date	:18/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/062283 :19/11/2019
(87) International Publication No	:WO 2020/131282
(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)ZHENG, Guozhu
2)BAMBERGER, Mark, J.
3)SMUKSTE, Inese

(57) Abstract :
Disclosed are analogs of SBT-20. The compounds are useful for the treatment and prevention of ischemia-reperfusion injury (e.g., cardiac ischemia-reperfusion injury) or myocardial infarction.

No. of Pages : 105 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025511 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ASSEMBLY FOR ACCESSING COCONUT WATER IN COCONUT

(51) International classification	:A23N0005030000, A61K0036889000, F16H0007080000, A23L0002040000, A47K0010320000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/TH2018/000052 :23/11/2018
(87) International Publication No	:WO 2020/106224
(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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Address of Applicant :No. 98/38 moo 6, Bangmuangmai sub-district, Muang Samutprakarn district, Samutprakarn, 10270 Thailand
(72)**Name of Inventor :**
1)MANUSRUNGSRI, Kemtas
2)MANUSRUNGSRI, Waraporn

(57) Abstract :
An assembly (010) for accessing coconut water in a coconut has a plunger (011) for puncturing the germination pore of the coconut thereby permits the access of the coconut water inside the coconut. The assembly (010) comprises a plunger (011) having a plunger collar (111) perpendicularly mounted to a plunger lance (211), a lid (012) having a lid bore (112) for receiving and housing a tip of the plunger lance (211) and a stopper clip (013) for holding the plunger lance (211) in order to prevent the tip of the plunger lance (211) in the lid bore (112) from puncturing a germination pore of the coconut, wherein the lid (012) of the assembly (010) is placed and fixed on the germination pore of the coconut by a fixing mean.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025518 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NOVEL IMIDAZOLE DERIVATIVE

(51) International classification	:C07D0231120000, C07D0413060000, C07D0211180000, C07D0211460000, C07D0213640000
(31) Priority Document No	:2018-218448
(32) Priority Date	:21/11/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/045362 :20/11/2019
(87) International Publication No	:WO 2020/105660
(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)MATSUDA, Yohei
3)OGATA, Yuya
4)SASAMOTO, Naoki
5)TSURUTA, Risa
6)USHIYAMA, Fumihito
7)UEKI, Kaori
8)TANAKA, Nozomi

(57) Abstract :
The present invention provides a novel imidazole derivative or a pharmaceutically acceptable salt thereof. The novel imidazole derivative, which is represented by general formula [1] or [2], demonstrates, through a LpxC inhibition action, a strong anti-bacterial activity against gram-negative bacteria such as Pseudomonas aeruginosa, Escherichia coli, and Klebsiella pneumoniae, and drug-resistant strains thereof.

No. of Pages : 200 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025532 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : THERMOPHORETIC PARTICLE DETECTION SYSTEM WITH VARIABLE CHANNEL GEOMETRY

(51) International classification	:B04B0013000000, B04B0005080000, B04B0015020000, G01N0015000000, G01N0001220000
(31) Priority Document No	:62/586130
(32) Priority Date	:14/11/2017
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2018/061131 :14/11/2018
(87) International Publication No	:WO 2019/099575
(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)WOOLSEY, David
2)BURNS, David William

(57) Abstract :
System for detecting and analyzing particles in an air stream includes an inlet, a particle concentrator and a particle discriminator having an air channel with a cross-sectional geometry that changes within at least one of the inlet, particle concentrator and particle discriminator. The system may have a sheath air stage including a port for providing sample air, at least one sheath air inlet port for providing sheath air, and a sheath air combining region. The system may include an airflow compression stage having a varying air channel that narrows as the air stream traverses the airflow compression stage to pre-concentrate particles within an interior region of the air stream. The system may include an airflow expansion stage having an air channel that widens to slow the airstream and particle velocities. A portion of the air channel height may be narrowed to allow larger thermophoretic forces to be generated.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025533 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD AND DEVICE FOR CALCULATING PRESSURE OF VENTURI TUBE

(51) International classification	:G01F0001440000, G06T0011000000, F02M0026190000, F02M0021040000, G01M0015090000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2018/119294 :05/12/2018
(87) International Publication No	:WO 2020/113453
(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)LUAN, Junshan
2)ZHANG, Chen
3)DAI, Ziyang
4)YAO, Wang

(57) Abstract :
A method for calculating a pressure of a Venturi tube, comprising acquiring a pressure value P2 of an air inlet tube, and acquiring a pressure differenceP between an inlet and a throat of the Venturi tube; performing correction on the P2 by using a predetermined first correction MAP, and obtaining a pressure PA of a first point before an EGR mixer; performing correction on theP by using a predetermined second correction MAP, and obtaining a pressure loss PB of the Venturi tube; and summing the PA and the PB to obtain the pressure of the Venturi tube. According to the method for calculating the pressure of the Venturi tube, an inlet pressure of the Venturi tube can be collected and calculated by using a calculation mode rather than a sensor. Therefore, it is not necessary to arrange an inlet pressure sensor of the Venturi tube, the number of sensors arranged on the Venturi tube is reduced, and an exhaust flow can also be calculated. Further provided is a device for calculating the pressure of the Venturi tube.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025536 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A DEVICE FOR MAINTAINING AN AIRWAY IN A PATIENT

(51) International classification	:A61M0016040000, A61M0016000000, A61M0016100000, A61B0005000000, A61B0005091000	(71)**Name of Applicant :** **1)BASKA, Kanag** Address of Applicant :C/- Level 6, 175 Eagle Street Brisbane, Queensland 4000 Australia **2)BASKA, Meenakshi**
(31) Priority Document No	:2018904736	(72)**Name of Inventor :**
(32) Priority Date	:13/12/2018	**1)BASKA, Kanag**
(33) Name of priority country	:Australia	
(86) International Application No Filing Date	:PCT/AU2019/051370 :13/12/2019	
(87) International Publication No	:WO 2020/118374	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
A device adapted for maintaining an airway in a patient, the device comprising a mask, the mask adapted to form a seal around the laryngeal inlet when properly inserted into a patient and an airway tube for providing ventilation gases and/or anaesthetic gases through the mask and to the lungs of the patient when the device is properly inserted in a patient, wherein the airway tube has a first proximal opening and a second proximal opening.

No. of Pages : 19 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025542 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TAMPING VEHICLE SUITABLE FOR USE IN RAILROAD JUNCTION TAMPING OPERATIONS, AND TAMPING OPERATION METHOD

(51) International classification	:E01B0027170000, A61B0008080000, E01B0027160000, C02F0101160000, B60P0003360000
(31) Priority Document No	:201910543036.7
(32) Priority Date	:21/06/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2020/071970 :14/01/2020
(87) International Publication No	:WO 2020/253236
(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)ZHANG, Baoming
3)XIE, Jiangsheng
4)YE, Yongqin
5)CHANG, Shijia
6)WANG, Hongbing
7)TAO, Jun
8)FU, Lang
9)LIU, Gang
10)YANG, Xiaomei
11)HU, Shizhou
12)CAI, Wentao
13)PAN, Yong
14)JI, Changjie
15)WANG, Yuzhu
16)YUE, Feng
17)WANG, Hong

(57) Abstract :
Provided are a tamping vehicle suitable for use in railroad junction tamping operations, and a corresponding tamping operation method thereof; the tamping vehicle comprises a vehicle body, a track lifting and lining apparatus (7) and a tamping apparatus (8); the track lifting and lining apparatus (7) is connected under the car body, the tamping apparatus (8) is connected to a rotational and transverse motion frame (9), and the rotational and transverse motion frame (9) is connected to the car body; the tamping apparatus (8) employs a vertically arranged eccentric vibration shaft structure and is mounted on the rotational and transverse motion frame, and the traverse apparatus of the rotational and traverse motion frame employs a movable fulcrum structure. The operation apparatus of the tamping vehicle, particularly the track lifting and lining apparatus, the tamping apparatus, and the rotational and transverse motion frame, have simple and compact structures, operate reliably, have a broad range of operation, and have high engineering application value, among other advantages. The invention solves the problems of existing railroad junction tamping vehicle operation apparatuses such as incompact structure, complicated operation, and small range of operation.

No. of Pages : 19 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021

(21) Application No.202117025543 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : POLYPEPTIDE WITH XYLANASE ACTIVITY, NUCLEOTIDE SEQUENCE ENCODING IT, INGREDIENT AND PROCESS COMPRISING SAID INGREDIENT FOR PREPARING A FOOD PRODUCT

(51) International classification	:C12N0009240000, A21D0008040000, B65D0085804000, A21D0002260000, A23L0029000000
(31) Priority Document No	:3617-2018
(32) Priority Date	:14/12/2018
(33) Name of priority country	:Chile
(86) International Application No Filing Date	:PCT/CL2019/050138 :11/12/2019
(87) International Publication No	:WO 2020/118465
(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)CHÁVEZ ROSALES, Renato Antonio
2)GIL DURÁN, Carlos

(57) Abstract :
The present invention relates to a new polypeptide with xylanase activity, the nucleotide sequence encoding it, an ingredient containing said polypeptide and a process for preparing a food product which comprises adding said ingredient to the preparation. This new polypeptide with xylanase activity is particularly useful for the baking industry, endowing doughs with greater elasticity, less tenacity, formation of a stronger gluten network with less water, shorter mixing time and greater volume of the final product.

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/06/2021
(21) Application No.202117025544 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CONTROL DEVICE AND CONTROL METHOD

(51) International classification	:F02B0061020000, F02B0037000000, B60T0008175500, F02B0027000000, F02M0035160000
(31) Priority Document No	:2018-230501
(32) Priority Date	:10/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/IB2019/060365 :02/12/2019
(87) International Publication No	:WO 2020/121111
(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)IWATSUKI, Junya

(57) Abstract :
The present invention achieves a control device and control method that make it possible to appropriately stabilize the behavior of a rear wheel of a saddle-ridden vehicle. This control device and control method control the slippage of the wheels of a saddle-ridden vehicle (100) to an allowed slippage or below. Stabilization control is executed when it has been determined on the basis of the slip angle (?1) of the saddle-ridden vehicle (100) that the behavior of a rear wheel (4) of the saddle-ridden vehicle (100) is unstable. The stabilization control reduces the allowed slippage for the rear wheel (4) to below the allowed slippage for the rear wheel (4) for when it has been determined that the behavior of the rear wheel (4) is stable.

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025574 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMBINATION TREATMENT FOR RESISTANT HYPERTENSION

(51) International classification	:A61K0045060000, H04L0029060000, A61K0031635000, C07K0014580000, H04M0003420000
(31) Priority Document No	:62/758009
(32) Priority Date	:09/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060401 :08/11/2019
(87) International Publication No	:WO 2020/097421
(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)DZHOYASHVILI, Nina

(57) Abstract :
Materials and methods for treating hypertension (including resistant hypertension) with a combination of an M-atrial natriuretic peptide (MANP) and a diuretic agent (e.g., furosemide) are described herein.

No. of Pages : 50 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025575 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHODS AND MATERIALS FOR INCREASING TRANSCRIPTION FACTOR EB POLYPEPTIDE LEVELS

(51) International classification	:G01N0033500000, A61K0031550000, C12Q0001370000, A61K0031496000, G01N0033680000
(31) Priority Document No	:62/788049
(32) Priority Date	:03/01/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/012268 :03/01/2020
(87) International Publication No	:WO 2020/142748
(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, Beibei
2)FINKEL, Toren
3)LIU, Yuan

(57) Abstract :
This document provides methods and materials for increasing TFEB polypeptide levels. For example, compounds (e.g., organic compounds) having the ability to increase TFEB polypeptide levels within cells and/or within a nucleus of cells, formulations containing compounds having the ability to increase TFEB polypeptide levels within cells and/or within a nucleus of cells, methods for making compounds having the ability to increase TFEB polypeptide levels within cells and/or within a nucleus of cells, methods for making formulations containing compounds having the ability to increase TFEB polypeptide levels within cells and/or within a nucleus of cells, methods for increasing TFEB polypeptide levels within cells and/or within a nucleus of cells, and methods for treating mammals (e.g., humans) having a condition responsive to an increase in TFEB polypeptide levels are provided.

No. of Pages : 161 No. of Claims : 127

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025576 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR DETERMINING A REFRACTION FEATURE OF AN EYE OF A SUBJECT, AND ASSOCIATED PORTABLE ELECTRONIC DEVICE

(51) International classification	:A61B0003000000, F21V0023040000, A61B0003120000, A61B0003150000, A61B0003110000
(31) Priority Document No	:18306774.3
(32) Priority Date	:20/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086457 :19/12/2019
(87) International Publication No	:WO 2020/127832
(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)MARIN, Gildas
2)BOUTINON, Stéphane

(57) Abstract :
The method comprises the steps of: a) illuminating the pupil (30) of an eye (3) of a subject (2) by means of a light source of a portable electronic device (1), said light source (12A) being formed by a lighted area displayed on a screen (11) of the portable electronic device; b) acquiring a picture of said pupil of the eye of the subject by means of an image-capture apparatus (10) of the portable electronic device, said picture comprising an image of the reflection of said light source on the retina of said eye; and c) determining a refraction feature of said eye taking into account at least a geometrical feature, a positional feature or an intensity distribution of said image of said reflection. An associated portable electronic device is also described.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025577 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ORAL CAVITY TREATMENTS

(51) International classification	:A61K0008970000, A61C0015040000, A61K0009000000, C12N0005074000, A23L0019000000
(31) Priority Document No	:67/776237
(32) Priority Date	:06/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/062896 :24/11/2019
(87) International Publication No	:WO 2020/117508
(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)RAHIMI, Maryam

(57) Abstract :
Embodiments of the invention include a system having a plant stem cell product and a delivery device configured to deliver an effective amount of the plant stem cell product to the oral cavity or nasopharynx. In some embodiments, the delivery device may include an aerosolizing device, an adherent dressing, a tooth-adherent flexible strip, a treatment tray, a viscous adherent carrier, a brush, a paste, a flosser, a dissolving oral strip, a gum, a chew, a smoking material, a nasal packing, or a lozenge. The plant stem cell products may include encapsulated extracts of plant stem cells, such as food species stem cells, spice or other seasoning stem cells, or medicinal plant stem cells.

No. of Pages : 60 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025579 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HEAT UTILIZATION SYSTEM, AND HEAT GENERATING DEVICE

(51) International classification	:F24V0030000000, H01M0010340000, F28D0021000000, C01B0013020000, A61F0007030000
(31) Priority Document No	:2018-232054
(32) Priority Date	:11/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/048395 :11/12/2019
(87) International Publication No	:WO 2020/122097
(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)ITO Takehiko
3)KASAGI Jirota
4)YOSHINO Hideki
5)HIRANO Shotaro
6)ISE Masahide
7)IBARAKI Tetsuharu

(57) Abstract :
Provided are a novel heat utilization system and a heat generating device employing an inexpensive, clean, and safe thermal energy source. A heat utilization system 10 is provided with: a hermetically sealed container 15 supplied with hydrogen-based gas; a heat generating structure 20 which is accommodated in the hermetically sealed container 15 and which includes a heat generating body that generates heat by absorbing and releasing hydrogen contained in the hydrogen-based gas; and a heat utilizing device 12 which utilizes, as a heat source, a heat medium that is heated by means of the heat of the heat generating body. The heat generating body includes a pedestal formed using a hydrogen absorbing metal, a hydrogen absorbing alloy, or a proton conductor, and a multilayer film provided on the pedestal. The multilayer film includes: a first layer which is formed using a hydrogen absorbing metal or a hydrogen absorbing alloy, and which has a thickness of less than 1000 nm; and a second layer which is formed using a hydrogen absorbing metal, a hydrogen absorbing alloy, or a ceramic, different from the first layer, and which has a thickness of less than 1000 nm.

No. of Pages : 104 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025588 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTRODE FOR ELECTROLYSIS

(51) International classification	:C25B0011040000, B01D0019000000, C25B0001460000, C23F0001180000, H05K0003380000
(31) Priority Document No	:10-2019-0021361
(32) Priority Date	:22/02/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2020/002241 :17/02/2020
(87) International Publication No	:WO 2020/171509
(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, Yeon Yi
3)KIM, Myung Hun
4)LEE, Dong Chul
5)JUNG, Sang Yun
6)HWANG, Gyo Hyun
7)JUNG, Jong Wook
8)BANG, Yong Ju

(57) Abstract :
The present invention provides an electrode for electrolysis, using a planarized metal substrate so as to increase the surface area of a coating layer, thereby increasing adhesion with a membrane, and reduce a gas trap, thereby preventing overvoltage.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025589 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHODS AND COMPOSITIONS FOR DETERMINING THE COMPOSITION OF A TUMOR MICROENVIRONMENT

(51) International classification	:A61P0035000000, G01N0033574000, A61K0045060000, A61K0035740000, G01N0033500000
(31) Priority Document No	:62/758393
(32) Priority Date	:09/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060521 :08/11/2019
(87) International Publication No	:WO 2020/097495
(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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Address of Applicant :405 Duke Drive Franklin, TN 37067 U.S.A.
(72)**Name of Inventor :**
1)PURVIS, Norman
2)WESTFALL, Matthew

(57) Abstract :
The disclosure relates to the field of immuno-oncology. More specifically, the disclosure relates to methods and compositions for performing single-cell phenotypic and functional analysis of immune and cancer cells disposed within a tumor microenvironment. The methods and compositions permit the determination of whether a subject with a solid tumor is likely to respond to a particular immunomodulator, and also permit the treatment of a solid tumor in a subject by facilitating the selection of an immunomodulator suitable for treating the solid tumor in the subject.

No. of Pages : 42 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025590 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTRO-OPTIC DISPLAYS

(51) International classification	:G09G0003340000, G09G0003360000, G02F0001168500, G06F0003041000, G01R0013020000
(31) Priority Document No	:62/786437
(32) Priority Date	:30/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/068874 :30/12/2019
(87) International Publication No	:WO 2020/142399
(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)E INK CALIFORNIA, LLC
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(72)**Name of Inventor :**
1)LIN, Craig
2)GU, Haiyan

(57) Abstract :
A method for driving an electro-optic display, the display having at least one display pixel coupled to a storage capacitor, the method include applying a waveform sequence to the at least one display pixel and connecting the storage capacitor to a first bias voltage, and maintaining a last frame voltage level on the display pixel after the completion of the applied waveform.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025595 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : APPARATUS FOR SERVICING A STRUCTURE

(51) International classification	:H01L0051560000, B62B0005000000, A47L0011400000, A47G0001060000, A61M0016060000
(31) Priority Document No	:1818300.4
(32) Priority Date	:09/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/SG2019/050550 :11/11/2019
(87) International Publication No	:WO 2020/096529
(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)HARTOG, Simon
2)VOS, Andries
3)KLEINE, Peter
4)WESTERBRINK, Michael
5)KENDALL, Stuart

(57) Abstract :
Apparatus for servicing a structure comprises a frame (1) for assembly around the structure (30), the frame having least one pair of first and second arms (6, 7) pivotally attached at proximal ends thereof to the frame (1) and carrying respective rotating members (8, 9) arranged to contact the structure and driveable to move the frame (1) along the structure (30).

No. of Pages : 17 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025612 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MOGROSIDE COMPOUNDS AND USES THEREOF

(51) International classification	:A23L0027300000, A23L0002600000, A23L0027000000, A61K0033420000, A61P0025280000
(31) Priority Document No	:PCT/CN2019/081409
(32) Priority Date	:04/04/2019
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/EP2020/059442 :02/04/2020
(87) International Publication No	:WO 2020/201446
(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)GAN, Xian-Wen
2)YIN, Dan-Ting

(57) Abstract :
The present disclosure generally relates to various formulations and uses of the compound Isomogroside IVE. In some aspects, the disclosure provides compositions that include Isomogroside IVE. In some embodiments, the compositions are comestible compositions, including, but not limited to, packaged food and beverage products and tabletop sweeteners. In some aspects, the disclosure provides certain compositions that include such mogroside compounds, such as compositions that include such mogroside compounds and one or more other sweeteners. In some other aspects, the disclosure provides methods of reducing the caloric content of a sweetened article, such as a sweetened food or beverage product.

No. of Pages : 38 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025613 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FILAMENTOUS NANOPARTICLES HAVING VACCINE ADJUVANT EFFECT

(51) International classification	:A61K0039000000, A61K0039390000, A61K0009510000, A61K0036730000, A61K0039120000
(31) Priority Document No	:18213540.0
(32) Priority Date	:18/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/085444 :16/12/2019
(87) International Publication No	:WO 2020/127115
(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)HU, Kefei
2)DUROUX, Laurent
3)LINDBLAD, Erik

(57) Abstract :
The present invention relates to filamentous, i.e. thread-like nanoparticles comprising sterol and a component derived from Quillaja saponaria Molina selected from quillaja acid and quillaja saponin. More particularly, the invention relates to the use of said thread-like nanoparticles in vaccines and drug delivery or adsorption systems systems, methods for their production and uses thereof, such as for use as a vaccine adjuvant and in cancer therapy.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025614 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INSECTICIDAL FORMULATION FOR VECTOR AND PEST CONTROL WITH INCREASED CONTACT EFFICACY

(51) International classification	:A01N0025100000, A01N0043760000, A01N0025280000, A01N0025340000, A01N0057160000
(31) Priority Document No	:18213629.1
(32) Priority Date	:18/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/084350 :10/12/2019
(87) International Publication No	:WO 2020/126648
(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)VERMEER, Arnoldus
2)HERTLEIN, Peter
3)HORSTMANN, Sebastian
4)GUTSMANN, Volker
5)ARLT, Alexander
6)VELTEN, Robert

(57) Abstract :
The present invention relates to insecticidal formulations for vector and pest control with increased contact efficacy, more particularly to insecticidal active ingredient - matrix particles and insecticidal compositions comprising such insecticidal active ingredient - matrix particles, as well as to methods and uses of such insecticidal formulations.

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025615 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LIGHTING CONTROL SYSTEM CONFIGURABLE BY CONTROL DEVICE

(51) International classification	:H05B0047190000, H05B0047105000, H04L0012280000, G06F0003048600, G06Q0020200000
(31) Priority Document No	:16/226479
(32) Priority Date	:19/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065895 :12/12/2019
(87) International Publication No	:WO 2020/131549
(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)ROMANO, John
2)PERKINS, David
3)SENESCU, Reid
4)KURASHIGE, Jason
5)OUCHIDA, Wayne
6)MOHAN, Tanuj

(57) Abstract :
There is described a lighting control system (100) of a building environment comprising a control device (108) and a lighting device (106). The control device (108) is capable of detecting an activation of a configuration mode of the lighting control system (100) and controlling illumination for the building environment in response to command inputs received at a user interface (160). The lighting device (106) is capable of receiving a message indicating that the activation of the configuration mode has been detected by the control device (108) and receiving a directional signal from a directional device (110) subsequent to receiving the message. A membership status of the lighting device (106) in a device group is changed in response to receiving the directional signal.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025616 A
(43) Publication Date : 19/11/2021

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

(51) International classification	:G06Q0020400000, G06Q0020120000, G06Q0020380000, G06Q0020320000, G06Q0020200000
(31) Priority Document No	:1830356-0
(32) Priority Date	:07/12/2018
(33) Name of priority country	:Sweden
(86) International Application No Filing Date	:PCT/SE2019/051246 :06/12/2019
(87) International Publication No	:WO 2020/117126
(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)ERIKSSON, Patric

(57) Abstract :
A purchase management system 100 comprising a central database arrangement 110 and a bank specific database module 130 is provided. The central database arrangement 110 may add a selected purchasing group 300 and the purchasing rules applying to said purchasing group 300 as metadata linked to a first transaction ID in the central database arrangement 110, and transfer metadata to the bank specific database module 130. The bank specific database module 130 may receive a purchase approval request from a transaction authorization module 520, decide on the purchase approval request based on whether it fulfils the purchasing rules, respond to the transaction authorization module 520 with the approval or rejection, add the transaction information received from the transaction authorization module 520 as metadata, and transfer the transaction Information to the central database arrangement 110.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025622 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TRIAZOLOPYRIDIN-3-ONES OR THEIR SALTS AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME

(51) International classification	:C07D0405140000, C07D0401040000, A61K0031426000, A61K0009200000, C07D0403040000
(31) Priority Document No	:10-2018-0161732
(32) Priority Date	:14/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/IB2019/060738 :12/12/2019
(87) International Publication No	:WO 2020/121263
(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)TAK, Hee Jae
3)KIM, Eun Kyung
4)KIM, Dong Hoon
5)CHOI, Su Bin
6)PARK, Sol
7)CHOI, Hyun Ho
8)KIM, Tae Wang
9)JU, Mi Kyeong
10)HA, Na Ry

(57) Abstract :
The present technology provides triazolopyridin-3-ones or pharmaceutically acceptable salts thereof, preparation processes thereof, pharmaceutical compositions comprising the same, and uses thereof. The triazolopyridin-3-ones or their pharmaceutically acceptable salts exhibit inhibitory activity on VAP-1 and therefore can be usefully applied, e.g., for the treatment and prophylaxis of nonalcoholic hepatosteatosis (NASH).

No. of Pages : 106 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025627 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : 3,3-DIFLUOROALLYLAMINES OR SALTS THEREOF AND PHARMACEUTICAL COMPOSITIONS COMPRISING THE SAME

(51) International classification	:C07D0405140000, C07D0401040000, C07D0413140000, C07D0407140000, C07D0403040000
(31) Priority Document No	:10-2018-0161725
(32) Priority Date	:14/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/IB2019/060736 :12/12/2019
(87) International Publication No	:WO 2020/121261
(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)CHO, Hyok Jun
7)LIM, Cheol Hee
8)KIM, So Young
9)CHOI, Hyun Ho
10)JEONG, Da Na
11)YANG, Na Yeon
12)HA, Na Ry

(57) Abstract :
The present technology provides 3,3-difluoroallylamines or pharmaceutically acceptable salts thereof, preparation processes thereof, pharmaceutical compositions comprising the same, and uses thereof. The 3,3-difluoroallylamines or their pharmaceutically acceptable salts exhibit potent inhibitory activity on VAP-1 and therefore can be usefully applied, e.g., for the treatment and prophylaxis of nonalcoholic hepatosteatosis (NASH).

No. of Pages : 304 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025629 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CONSTRUCTION SURFACE MATERIAL WITH MARKINGS

(51) International classification	:H01L0029861000, H01L0023544000, G06K0009340000, H05K0003000000, F04D0029420000
(31) Priority Document No	:2018-239480
(32) Priority Date	:21/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/029462 :26/07/2019
(87) International Publication No	:WO 2020/129294
(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)YASUE, Kenzo

(57) Abstract :
Provided is construction surface material with markings that has a first marking printed at a permissible spacing from an edge of a plane rectangle and markings printed in advance in columns at designated intervals even if cut at any location during a cutting step in a manufacturing process. The construction surface material 10 with markings has marking columns made by providing a plurality of character string groups in cycles, wherein a single character string group is formed by arranging a plurality of markings in a determined order at a set constant first spacing on the wide surface of the construction surface material, which has a rectangular shape in plan view, along at least one straight line parallel to a first side 11 or a second side 12 of the rectangle.

No. of Pages : 32 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025633 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MODE-CHANGEABLE AUGMENTED REALITY INTERFACE

(51) International classification	:G06F0003048800, G06F0003010000, G06K0009000000, H04N0001000000, G06F0003030000
(31) Priority Document No	:16/230581
(32) Priority Date	:21/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/066111 :13/12/2019
(87) International Publication No	:WO 2020/131592
(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)KONIN, Andrey
2)BLEYER, Michael
3)PEKELNY, Yuri

(57) Abstract :
Facilitating input to the computing system by displaying an input area on the palm of a human hand, and allowing easy input mode changes using gestures of that hand. Computer vision is used to detect the palm of a human hand. Augmented reality is used to display the input area on that palm of the display human hand. Computer vision may then be used to detect when the other human hand of that user interfaces with the input area. The input area has multiple input modes that each define how input from the input human hand is interpreted by the computing system. In response to the computer vision detected an input mode changing gesture of the display human hand, the computing system changes the input mode of the input area so as to change how input provided by the input human hand is interpreted by the computing system.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021
(21) Application No.202117025634 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DETECTING OBJECTS IN CROWDS USING GEOMETRIC CONTEXT

(51) International classification	:G06K0009000000, G06K0009620000, G06K0009320000, G05D0001020000, G06K0009520000
(31) Priority Document No	:16/222954
(32) Priority Date	:17/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065311 :10/12/2019
(87) International Publication No	:WO 2020/131467
(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)CHAKRABORTY, Ishani
2)HUA, Gang

(57) Abstract :
A computing system is configured to train an object classifier. Monocular image data and ground-truth data are received for a scene. Geometric context is determined including a three-dimensional camera position relative to a fixed plane. Regions of interest (RoI) and a set of potential occluders are identified within the image data. For each potential occluder, an occlusion zone is projected onto the fixed plane in three-dimensions. A set of occluded RoIs on the fixed plane are generated for each occlusion zone. Each occluded RoI is projected back to the image data in two-dimensions. The classifier is trained by minimizing a loss function generated by inputting information regarding the RoIs and the occluded RoIs into the classifier, and by minimizing location errors of each RoI and each occluded RoI of the set on the fixed plane based on the ground-truth data. The trained classifier is then output for object detection.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025635 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MODIFIED SLOW-SCAN DRIVE SIGNAL

(51) International classification	:G03B0021280000, G09G0003340000, H04N0001401000, H04N0001400000, G09G0003020000
(31) Priority Document No	:16/224730
(32) Priority Date	:18/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064082 :03/12/2019
(87) International Publication No	:WO 2020/131344
(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)LIAO, Wenjun
2)PU, Chuan

(57) Abstract :
A display device, including a display surface, a laser beam emitter, and a processor. The display device may further include a slow-scan MEMS driver configured to drive a slow-scan mirror and a fast-scan MEMS driver configured to drive a fast-scan mirror. The slow-scan mirror and the fast-scan mirror may reflect the laser beam onto an active region of the display surface. The slow-scan period may include a scanning interval in which the slow-scan mirror is configured to move to a final scanning position at one or more scanning ramp rates and a flyback interval in which the slow-scan mirror is configured to return to the initial scanning position. The processor may generate a modified slow-scan drive signal by modifying one or more of the initial scanning position, the final scanning position, and the scanning ramp rate in a blank region of the display surface.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025636 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TRANSPARENT SUBSTRATE WITH A MULTILAYER THIN FILM AND MULTIPLE GLAZING UNIT COMPRISING THE SAME

(51) International classification	:C03C0017360000, G02B0005280000, G02B0005200000, B42D0025351000, G01J0003020000
(31) Priority Document No	:10-2018-0173721
(32) Priority Date	:31/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/015561 :14/11/2019
(87) International Publication No	:WO 2020/141717
(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)HAN, Jin Woo
2)JANG, Eun Hack

(57) Abstract :
There is provided a transparent substrate provided with a multilayer thin film, including: a transparent substrate; a first stack positioned on the transparent substrate and including at least one dielectric layer; a first metallic functional layer positioned on the first stack and having an infrared reflective property; a second stack positioned on the first metallic functional layer and including at least one dielectric layer; a visible light absorbing layer positioned on the second stack; a third stack positioned on the visible light absorbing layer and including at least one dielectric layer; a second metallic functional layer positioned on the third stack; and a fourth stack positioned on the second metallic functional layer and including at least one dielectric layer. A ratio of a thickness of the third stack to a thickness of the second stack is 2.5 or more.

No. of Pages : 17 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025646 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR FITTING OR RETROFITTING A SINTER COOLER

(51) International classification	:F27D0015020000, F27B0021060000, C22B0001200000, F28F0013000000, F27B0021020000	(71)**Name of Applicant :** **1)PAUL WURTH S.A.** Address of Applicant :32, rue d'Alsace 1122 Luxembourg Luxembourg **2)PAUL WURTH DEUTSCHLAND GMBH**
(31) Priority Document No	:18211742.4	(72)**Name of Inventor :**
(32) Priority Date	:11/12/2018	**1)SCHMIDT, Eugen**
(33) Name of priority country	:EPO	**2)SCHULAKOW-KLASS, Andrej**
(86) International Application No Filing Date	:PCT/EP2019/083996 :06/12/2019	
(87) International Publication No	:WO 2020/120319	
(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 method for fitting or retrofitting a sinter cooler (1), which sinter cooler (1) comprises a cooler grate chain with an endless chain of cooler cars (2). In order to provide means for increasing the effectiveness of the sinter cooler, the invention provides that the method for fitting comprises, for at least one cooler car (2), installing a lamella grate (10) for holding sinter material and allowing air flow through the grate so that a support structure (13) is connected to the cooler car (2) and a plurality of lamellae (12) are supported by and individually movable with respect to the support structure (13), and are disposed to allow air flow between neighbouring lamellae (12). The support structure (13) comprises at least one support element (14) disposed underneath the plurality of lamellae (12) to support the plurality of lamellae (12), and at least one downholder (15) that is adapted to limit an upward motion of at least one lamella (12) is installed such that at least a portion of the downholder (15) is disposed above the at least one lamella (12). In case of retrofitting a sinter cooler (1) comprising a rigid grate (5) for holding sinter material, the method for retrofitting further comprises removing the rigid grate (5) before installing the lamella grate (10).

No. of Pages : 14 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025647 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INDURATION MACHINE

(51) International classification	:F27B0021060000, C22B0001200000, F27D0017000000, F27B0021020000, F27D0015020000
(31) Priority Document No	:18211746.5
(32) Priority Date	:11/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/083986 :06/12/2019
(87) International Publication No	:WO 2020/120318
(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)SCHULAKOW-KLASS, Andrej

(57) Abstract :
An induration machine (1), with -a travelling grate (2) for transporting bulk material along a transport direction (T) from a heating zone (5) for heating and/or drying the material to a cooling zone (6) for cooling the material by cooling gas; -a hood (7) disposed over the travelling grate (2) having a first hood section (8) in the heating zone (5) and a second hood section (9) in the cooling zone (6); and -two recuperation ducts(11) for guiding used cooling gas from the second hood section (9) to the first hood section (8), wherein the recuperation ducts(11) are disposed on opposite sides of the hood (7), are laterally offset with respect to the hood (7), and are connected to the second hood section (9) by a V-shapedgas collector duct (15) and each recuperation duct (11) is connected to the first hood section (8) by at least one gas supply duct (14) and has at least one dust purge opening (16) disposed in the lowermost part(11.1) of the recuperation duct (11) for purging dust from the recuperation duct (11).

No. of Pages : 16 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025652 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : OPHTHALMIC LENS COMPRISING AN OXAZOLONE

(51) International classification	:C07D0413140000, G02C0007100000, C07D0263420000, C07D0413060000, C07D0413040000
(31) Priority Document No	:18306682.8
(32) Priority Date	:13/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/084579 :11/12/2019
(87) International Publication No	:WO 2020/120540
(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)IAMSAARD, Supitchaya
2)FROMENTIN, Pierre

(57) Abstract :
The present invention relates to ophthalmic lenses comprising an oxazolone, a preparation method thereof and the use of an oxazolone in an ophthalmic lens to absorb blue light.

No. of Pages : 36 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025653 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CRYO-CARRIER

(51) International classification	:A01H0004000000, H01L0033620000, B65H0037040000, B65H0019120000, G01N0001040000
(31) Priority Document No	:201821847886.3
(32) Priority Date	:09/11/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CA2019/000138 :03/10/2019
(87) International Publication No	:WO 2020/093133
(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)SONGGUO, Xue
2)QIUPING, Peng
3)SEANG, Lin Tan

(57) Abstract :
There is disclosed a cryo-carrier comprising a carrier region having a plurality of grids, the carrier region having an embryo placement portion for supporting at least one embryo and a non-embryo placement portion surrounding the embryo placement portion. The non-embryo placement portion is filled with a support sheet so that it is stronger than the embryo placement portion, thereby supporting it.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025655 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADJUSTABLE RIGID SPACER COUPLING

(51) International classification	:F01L0001344000, F16D0065560000, B60Q0001068000, F04D0025060000, F04D0029044000
(31) Priority Document No	:16/191016
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/061145 :20/12/2019
(87) International Publication No	:WO 2020/100130
(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)MILLER, Daniel Stephen
2)BEHNKE, Paul Walter

(57) Abstract :
Technologies are described for devices and methods for adjusting a position of impellers within a bowl assembly. The devices may comprise an adjuster at the second end of a spacer coupling. The adjuster may include an adjuster sleeve. The adjuster sleeve may be a cylindrical sleeve. The adjuster sleeve may be threaded on an internal side. The adjuster sleeve may be spaced from the driven hub so that the adjuster sleeve can rotate around a driven shaft. The adjuster sleeve may threadedly mate and engage with an externally threaded first end of the driven shaft when the adjuster sleeve is rotated. The rotation of the adjuster sleeve may adjust a position of the driven shaft with respect to the driven hub and may thereby adjust a position of an impeller attached to a second end of the driven shaft with respect to a stationary bowl.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025656 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADDITIVE MANUFACTURING OF COMPLEX OBJECTS USING REFRACTORY MATRIX MATERIALS

(51) International classification	:B33Y0010000000, C23C0016040000, B33Y0070000000, B33Y0080000000, B22F0005000000
(31) Priority Document No	:62/769588
(32) Priority Date	:20/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/044276 :31/07/2019
(87) International Publication No	:WO 2020/106334
(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)TERRANI, Kurt A.
2)TRAMMELL, Michael P.
3)JOLLY, Brian C.

(57) Abstract :
A method for the manufacture of a three-dimensional object using a refractory matrix material is provided. The method includes the additive manufacture of a green body from a powder-based refractory matrix material followed by densification via chemical vapor infiltration (CVI). The refractory matrix material can be a refractory ceramic or a refractory metal. In one embodiment, the matrix material is deposited according to a binder-jet printing process to produce a green body having a complex geometry. The CVI process increases its density, provides a hermetic seal, and yields an object with mechanical integrity. The residual binder content dissociates and is removed from the green body prior to the start of the CVI process as temperatures increase in the CVI reactor. The CVI process selective deposits a fully dense coating on all internal and external surfaces of the finished object.

No. of Pages : 13 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025666 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HIGH CARBON HOT-ROLLED STEEL SHEET AND METHOD FOR PRODUCTION THEREOF

(51) International classification	:C22C0038040000, C22C0038000000, C22C0038060000, C22C0038020000, C21D0009460000
(31) Priority Document No	:2019-013956
(32) Priority Date	:30/01/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/000782 :14/01/2020
(87) International Publication No	:WO 2020/158356
(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)SAKURAI Yasuhiro
3)ONO Yoshihiko

(57) Abstract :
A high carbon hot-rolled steel sheet and a production method thereof are provided. This high carbon hot-rolled steel sheet has a specific component composition, wherein the microstructure comprises ferrite, cementite, and pearlite which makes up less than or equal to 6.5% by surface area with respect to the entire microstructure; as for the cementite, the ratio of the number of cementite particles with a circle equivalent diameter less than or equal to 0.1 μm to the total number of cementite particles is less than or equal to 20%, the average cementite diameter is less than or equal to 2.5 μm, and the ratio of the cementite with respect to the total microstructure is greater than or equal to 1.0% and less than 3.5% by surface area; the average concentration of a solid B solution in the region from the surface layer to a depth of 100 μm is greater than or equal to 10 ppm by mass, and the average concentration of N present as AlN in the region from the surface layer to a depth of 100 μm is less than or equal to 70 ppm by mass.

No. of Pages : 64 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025667 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HIGH-CARBON HOT-ROLLED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification	:C22C0038000000, C22C0038040000, C22C0038020000, C22C0038060000, C21D0009460000
(31) Priority Document No	:2019-013957
(32) Priority Date	:30/01/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2020/000783 :14/01/2020
(87) International Publication No	:WO 2020/158357
(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)ONO Yoshihiko

(57) Abstract :
Provided are a high-carbon hot-rolled steel sheet and a method for manufacturing the same. The present invention is a high-carbon hot-rolled steel sheet having a specific component composition, wherein: the microstructure comprises ferrite, cementite, and pearlite accounting for 6.5% or less, in area percentage, of the whole microstructure; as regards the cementite, the proportion of the quantity of cementite having a circle-equivalent diameter of 0.1 μm or less is 20% or less relative to the total quantity of cementite, the average cementite diameter is 2.5 μm or less, and the proportion of cementite relative to the whole microstructure is from 3.5% to 10.0% in area percentage; the average concentration of the amount of solid-soluted B in a region up to a depth of 100 μm from the surface layer is 10 ppm by mass or greater; and the average concentration of the amount of N existing as AlN in a region up to a depth of 100 μm from the surface layer is 70 ppm by mass or less.

No. of Pages : 64 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025668 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR POWER OPTIMIZED DATA TRANSMISSION IN A WIRELESS CELLULAR NETWORK

(51) International classification	:H04W0076140000, H04W0072040000, H04W0004700000, H04W0024080000, H04W0074080000
(31) Priority Document No	:18206523.5
(32) Priority Date	:15/11/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/081113 :13/11/2019
(87) International Publication No	:WO 2020/099456
(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)WEHMEIER, Lars
3)DENZIN, Florian
4)DUMMANN, Uwe

(57) Abstract :
The present invention relates to a method for data transmission from a first user equipment to a base station of a cellular network, where the first user equipment is camping on under coverage enhancement conditions, the first user equipment being communicatively connected to at least one second user equipment via a device-to-device communication channel, wherein for the data transmission of at least one data packet, the method comprises the steps for the first user equipment of: - transmitting the at least one data packet to the at least one second user equipment via the device-to-device communication channel, - instructing the at least one second user equipment to transmit the at least one data packet time-synchronized with the first transmission to the base station.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021
(21) Application No.202117025670 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : STATOR ADHESIVE LAMINATED CORE, METHOD FOR MANUFACTURING SAME, AND ROTATING ELECTRIC MACHINE

(51) International classification	:H02K0001270000, H02K0001180000, H02K0001160000, H02K0015000000, H01F0041020000
(31) Priority Document No	:2018-235870
(32) Priority Date	:17/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/049269 :17/12/2019
(87) International Publication No	:WO 2020/129927
(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)FUJII Hiroyasu
3)TAKATANI Shinsuke

(57) Abstract :
Provided is a rotating electric machine equipped with a stator adhesive laminated core that is excellent in productivity, has a high mechanical strength, reduces the vibration and noise of the rotating electric machine, and can suppress iron loss. The stator adhesive laminated core is provided with a plurality of magnetic steel sheets laminated with each other and covered with an insulating coat on both surfaces thereof and an adhesive portion disposed between the magnetic steel sheets adjacent to each other in the lamination direction and bonding these magnetic steel sheets to each other, wherein: all combinations of the magnetic steel sheets adjacent to each other in the lamination direction are bonded by the adhesive portion; an adhesive forming the adhesive portion comprises a fast setting adhesive and a thermoset adhesive; and the adhesive portion is partially provided between the magnetic steel sheets adjacent to each other in the lamination direction.

No. of Pages : 40 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025671 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ISOCYANATE FREE BINDER

(51) International classification	:C08J0009140000, C09D0167000000, C08G0018670000, C07C0067343000, B32B0027360000
(31) Priority Document No	:18213682.0
(32) Priority Date	:18/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086132 :18/12/2019
(87) International Publication No	:WO 2020/127611
(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)BIELER, Nikolaus
3)SOMMER, Marcel
4)RITTINER, Bruno
5)ELLINGER, Stefan
6)LA DELFA, Gaetano

(57) Abstract :
The present invention relates to a resin composition that comprises an acetoacetate ester compound with at least two acetoacetate ester functional groups, an acrylate compound with at least two acrylate functional groups, and a tertiary amine curing catalyst. This resin composition acts as an isocyanate-free binder that is less toxic to the environment. The invention further discloses a method for preparation fiber reinforced parts comprising fibers and said resin composition as well as a method for the preparation of foundry molds for the casting industry, which is based on said binder.

No. of Pages : 95 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025673 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMPOUNDS AND THEIR USE FOR THE TREATMENT OF A1-ANTITRYPSIN DEFICIENCY

(51) International classification	:A61P0011000000, C07D0401040000, C07D0471080000, A61K0031460000, A61K0045060000
(31) Priority Document No	:1820450.3
(32) Priority Date	:14/12/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053552 :13/12/2019
(87) International Publication No	:WO 2020/120992
(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)FOX, David John
3)HUNTINGTON, James Andrew

(57) Abstract :
The invention relates to oxopyrimidinyl-methyl-benzamide derivatives, for example in a pharmaceutically acceptable salt form or crystal form, pharmaceutical compositions comprising the derivatives, and their medical use, in particular for use in the treatment of a1-antitrypsin deficiency (A1AD or AATD).

No. of Pages : 30 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025682 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AEROSOL-GENERATING ARTICLE HAVING A VENTILATED CAVITY

(51) International classification	:A24F0047000000, A24D0003040000, A24D0003100000, A24D0003020000, A24B0015160000
(31) Priority Document No	:18214894.0
(32) Priority Date	:20/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086796 :20/12/2019
(87) International Publication No	:WO 2020/128043
(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)UTHURRY, Jérôme

(57) Abstract :
An aerosol-generating article (10) for producing an inhalable aerosol when heated comprises: a rod of aerosol-generating substrate (12); a mouthpiece segment (18) comprising a plug of filtration material and arranged downstream of, and longitudinally aligned with, the rod (12); and a hollow tubular segment (16) between the rod (12) and the mouthpiece segment (18). The hollow tube segment (16) is longitudinally aligned with the rod (12) and the mouthpiece segment (18), and defines a cavity extending all the way to an upstream end of the mouthpiece segment (18). The article (10) further comprises a ventilation zone (26) at a location along the hollow tubular segment (16) less than 18 millimetres from an upstream end of the hollow tubular segment (16). A thickness of a peripheral wall of the hollow tubular segment (16) is less than about 1.5 millimetre. The rod (12) of aerosol-generating substrate comprises at least an aerosol former, the rod (12) having an aerosol former content of at least about 10 percent on a dry weight basis. The aerosol- generating article has a ventilation level of at least about 10 percent.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025683 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BIOREACTORS FOR GROWING MICRO-ORGANISMS

(51) International classification	:C12M0001000000, C12M0001020000, B01F0003040000, C12M0001080000, C30B0029400000
(31) Priority Document No	:20195020
(32) Priority Date	:14/01/2019
(33) Name of priority country	:Finland
(86) International Application No Filing Date	:PCT/FI2019/050920 :20/12/2019
(87) International Publication No	:WO 2020/148480
(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)PITKÄNEN, Juha-Pekka

(57) Abstract :
Disclosed is a bioreactor (100) for growing micro-organisms, comprising a reaction chamber (102) and a draft tube (210) arranged inside the reaction chamber, which draft tube has at least one gas inlet (104, 106, 108), an inlet for the reaction mixture at its first end, and an outlet for the reaction mixture at its second end. The bioreactor also comprises means for generating flow (224) of the reaction mixture within the reaction chamber and at least a first blade structure (226A, 226B) arranged inside the reaction chamber, surrounding the draft tube.

No. of Pages : 38 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025685 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DISPLAY DEVICE FOR DISPLAYING VARIOUS TYPES OF CONTENTS

(51) International classification	:H04N0021450000, G06F0003048800, C01B0032174000, H04N0021438000, H04N0021475000
(31) Priority Document No	:10-2019-0000231
(32) Priority Date	:02/01/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/017473 :11/12/2019
(87) International Publication No	:WO 2020/141749
(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)KWAK, Hyunjee
4)KIM, Sunyoung
5)LEE, Seungmin
6)CHOI, Yoojin
7)CHOI, Jeonghye

(57) Abstract :
A display device includes a display configured to output a broadcast content or a content for an interior decoration function, a memory storing a first layout for surrounding the broadcast content and a second layout for surrounding the content for the interior decoration function, and a processor operatively connected to the display and the memory, wherein the processor removes the first layout, enlarges the broadcast content, and outputs the enlarged broadcast content through the display based on a first user input, and enlarges portions of the content for the interior decoration function and of the second layout and outputs the enlarged portions of the content for the interior decoration function and of the second layout through the display based on a second user input.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025686 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTRONIC DEVICE INCLUDING HEAT DISSIPATION STRUCTURE

(51) International classification	:H05K0007200000, H05K0001140000, H05K0001020000, G06F0001160000, H04M0001020000
(31) Priority Document No	:10-2018-0138566
(32) Priority Date	:12/11/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/015133 :08/11/2019
(87) International Publication No	:WO 2020/101274
(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)JUNG, Woojune

(57) Abstract :
Various embodiments related to a heat dissipation structure included in an electronic device are described, and according to one embodiment, an electronic device including a heat dissipation structure comprises: a first printed circuit board; a thermal spreader arranged in parallel to the first printed circuit board; a second printed circuit board which is arranged to be separated from the first printed circuit board and which is electrically connected with the first printed circuit board; and a heat transfer member of which at least a partial area faces a heat dissipation member, and of which at least another partial area, formed to be bent, is arranged to face one surface of the second printed circuit, and additional other various embodiments are possible.

No. of Pages : 41 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025691 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ENCAPSULATED POLYNUCLEOTIDES AND METHODS OF USE

(51) International classification	:C12N0007000000, C12N0015860000, A61K0048000000, C12N0015110000, C07K0014005000
(31) Priority Document No	:62/760422
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061093 :13/11/2019
(87) International Publication No	:WO 2020/102285
(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)KENNEDY, Edward
3)LERNER, Lorena

(57) Abstract :
The present disclosure relates to polynucleotides comprising a nucleic acid sequence encoding a replication competent viral genome, wherein the polynucleotide is capable of producing a replication competent virus when introduced into a cell by a non-viral delivery vehicle. The present disclosure further relates to the encapsulation of the polynucleotides and the use of the polynucleotides and/or particles for the treatment and prevention of cancer.

No. of Pages : 124 No. of Claims : 79

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025692 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IMAGE ENCODING METHOD AND APPARATUS FOR VIDEO SEQUENCE, AND IMAGE DECODING METHOD AND APPARATUS FOR VIDEO SEQUENCE

(51) International classification	:H04N0019176000, H04N0019105000, H04N0019139000, H04N0019513000, H04N0019533000
(31) Priority Document No	:201811458677.4
(32) Priority Date	:30/11/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/098151 :29/07/2019
(87) International Publication No	:WO 2020/107921
(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, Xu
2)ZHENG, Jianhua

(57) Abstract :
Provided in the present application are an image encoding method and apparatus for a video sequence, and an image decoding method and apparatus for a video sequence. The image decoding method of the present application comprises: determining motion information of a block to be decoded; obtaining a first decoding prediction block of the block to be decoded according to the motion information; performing motion search of first precision in a prediction reference image block to obtain at least two second decoding prediction blocks; performing downsampling on the first decoding prediction block to obtain a first sampling pixel point matrix, and performing downsampling on the at least two second decoding prediction blocks to obtain at least two second sampling pixel point matrices; separately calculating a difference between the first sampling pixel point matrix and each second sampling pixel point matrix, and taking a motion vector corresponding to the second sampling pixel point matrix having the smaller difference as a target prediction motion vector; and obtaining a target decoding prediction block of the block to be decoded according to the target prediction motion vector, and decoding the block to be decoded according to the target decoding prediction block. The present application reduces the calculation amount of difference comparison, and improves image encoding efficiency.

No. of Pages : 57 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021
(21) Application No.202117025711 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFORMATION PROCESSING DEVICE AND PROGRAM

(51) International classification	:G06Q0030060000, G06Q0030020000, G06F0013000000, G11B0020100000, G06F0113140000
(31) Priority Document No	:2018-231710
(32) Priority Date	:11/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/048138 :09/12/2019
(87) International Publication No	:WO 2020/122027
(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)HASIDA, Koiti

(57) Abstract :
The purpose of the present invention is to provide an information processing device capable of generating comments that meet the needs of a user with a high degree of precision. An information processing device 10 comprises: a personal data store (PDS) unit 12 that stores user data and outputs the stored user data; a conversation unit 11 that acquires user data through a conversation with a user, and stores the acquired user data in the PDS unit 12; and a matching unit 13 that acquires catalog data including information about products and services from a business system 30, generates a comment for at least one product or service from the catalog data on the basis of the user data output by the PDS unit 12, and outputs the generated comment to the user.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025713 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A COMPOSITE BATTERY ENCLOSURE

(51) International classification	:H01M0002100000, B60K0001040000, B60R0016040000, B60L0050640000, B62D0027020000
(31) Priority Document No	:62/769925
(32) Priority Date	:20/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/062411 :20/11/2019
(87) International Publication No	:WO 2020/106837
(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)HOWARD, Michael, F.
2)VELOSO, McKevin

(57) Abstract :
A battery enclosure for a vehicle chassis comprising a base plate having an upper and lower surface and a plurality of edges; an external support structure with a flange portion on a lower surface thereof and disposed on an upper surface of the base plate to circumscribe the base plate edges; a battery tray with a flange portion extending from an upper surface thereof is disposed on an upper surface of the base plate. The battery tray includes a plurality of raised surface features on the upper surface outlining individual cells, each cell configured to receive at least one battery. A lid is disposed on the flange of the battery tray with the external support structure disposed below the battery tray flange, and extending around the battery tray edges.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025714 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HEAT TRANSFER PLATE

(51) International classification	:F28F0003080000, F28D0009000000, F28F0003040000, F21V0029740000, F28F0013060000
(31) Priority Document No	:18208338.6
(32) Priority Date	:26/11/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/080830 :11/11/2019
(87) International Publication No	:WO 2020/108969
(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)BLOMGREN, Fredrik

(57) Abstract :
A heat transfer plate (2a) is provided. It comprises a first end portion (8), a second end portion (16) and a center portion (24) arranged in succession along a longitudinal center axis (L) of the heat transfer plate (2a). The center portion (24) comprises a heat transfer area (26) provided with a heat transfer pattern comprising support ridges (60) and support valleys (62). The support ridges (60) and support valleys (62) longitudinally extend parallel to the longitudinal center axis (L) of the heat transfer plate (2a). The support ridges (60) and support valleys (62) are alternately arranged along a number = x of separated imaginary longitudinal straight lines (64) extending parallel to the longitudinal center axis (L) of the heat transfer plate (2a) and along a number of separated imaginary transverse straight lines (66) extending perpendicular to the longitudinal center axis (L) of the heat transfer plate (2a). The heat transfer pattern further comprises turbulence ridges (68) and turbulence valleys (70). The heat transfer plate (2a) is characterized in that at least a plurality of the turbulence ridges (68) and turbulence valleys (70) along at least a center portion (68a, 70a) of their longitudinal extension extend inclined in relation to the transverse imaginary straight lines (66).

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025715 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A PLATE HEAT EXCHANGER AND A HEAT EXCHANGING PLATE FOR TREATING A FEED SUCH AS SEA WATER

(51) International classification	:F28D0009000000, F28F0003040000, F28F0003080000, B29C0048030000, G02B0005180000
(31) Priority Document No	:18209140.5
(32) Priority Date	:29/11/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/081025 :12/11/2019
(87) International Publication No	:WO 2020/108983
(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)ALFA LAVAL CORPORATE AB
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(72)**Name of Inventor :**
1)BLOMGREN, Fredrik

(57) Abstract :
The present invention relates to a plate heat exchanger for treatment of a feed. The plate heat exchanger defines a heat exchanging zone being formed by ridges and valleys in the opposing heat exchanging plates which are arranged such that opposing ridges of the opposing heat exchanging plates abut each other. The plate heat exchanger defines a passage located between a lower border and the heat exchanging zone and extending from a feed inlet in the transversal direction for receiving the feed from the feed inlet and allowing a uniform distribution of the feed over the heat exchanging zone. The plate heat exchanger further defines a transition zone separating the heat exchanging zone and the passage, the maximum distance between opposing heat exchanging plates in the transition zone being smaller than the maximum distance between opposing heat exchanging plates in the passage and in the heat exchanging zone.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025716 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : UNINTERRUPTIBLE POWER SUPPLY DEVICE

(51) International classification	:H02J0009060000, H02J0007000000, H01L0021768000, H02J0007350000, H01M0010656700
(31) Priority Document No	:2018-237117
(32) Priority Date	:19/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/043272 :05/11/2019
(87) International Publication No	:WO 2020/129438
(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)AOKI Kosuke
2)KUNISADA Hideaki
3)NARUSHIMA Jun

(57) Abstract :
Provided is an uninterruptible power supply device with which it is possible to extend the storage cell replacement cycle. An uninterruptible power supply device provided with a storage cell, the uninterruptible power supply device characterized in being operated so that the storage cell charge rate after operation of the storage cell is higher than the storage cell charge rate when the storage cell is installed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025717 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A PLATE HEAT EXCHANGER FOR TREATING A FEED SUCH AS SEA WATER

(51) International classification	:F28D0009000000, F28F0003020000, F28F0003040000, F28F0009020000, F28D0021000000
(31) Priority Document No	:18209141.3
(32) Priority Date	:29/11/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/081090 :13/11/2019
(87) International Publication No	:WO 2020/108985
(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)BLOMGREN, Fredrik

(57) Abstract :
The present invention relates to a plate heat exchanger for treatment of a feed. The plate heat exchanger including a plate package forming alternating first and second plate interspaces. Each first plate interspace defines a condensation section defining an upper border, a lower border, an inlet and an outlet. Each heat exchanging plate being provided with ridges and valleys extending in opposite directions. The condensation section defines a passage extending at least a part of the distance between the upper border and the outlet. The ridges of each heat exchanging plate outside the passage extend to a contact plane allowing opposing heat exchanging plates to abut at contact points in the contact plane, whereas the ridges of each heat exchanging plate within the passage are spaced apart from the contact plane preventing contact between opposing heat exchanging plates in the passage.

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025730 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTIVARIATE AND OTHER METAL-ORGANIC FRAMEWORKS, AND USES THEREOF

(51) International classification	:B01J0020280000, E03B0003280000, B01J0020220000, C02F0001280000, C02F0001440000
(31) Priority Document No	:62/771537
(32) Priority Date	:26/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/063442 :26/11/2019
(87) International Publication No	:WO 2020/112899
(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)YAGHI, Omar M.
2)HANIKEL, Nikita
3)LYU, Hao

(57) Abstract :
Compositions comprising multivariate metal-organic frameworks and other single-linker metal-organic frameworks are used for containing and storing a gas or fluid or for water harvesting or water purification applications.

No. of Pages : 29 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021
(21) Application No.202117025737 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : GARBAGE COMPACTING MECHANISM USED IN ELECTRIC GARBAGE COLLECTING VEHICLE AND ELECTRIC GARBAGE COLLECTING VEHICLE

(51) International classification	:B65F0001140000, B65F0003000000, G07C0005000000, G07C0005080000, B60L0050500000
(31) Priority Document No	:1-2018-06067
(32) Priority Date	:28/12/2018
(33) Name of priority country	:Vietnam
(86) International Application No Filing Date	:PCT/VN2019/000023 :27/12/2019
(87) International Publication No	:WO 2020/140132
(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)TRAN, Anh Dung

(57) Abstract :
The present disclosure provides a garbage compacting mechanism and a electric garbage collecting vehicle having a seperate garbage tank located in the front of the vehicle. The garbage compacting mechanism is disposed on the vehicle and above the garbage tank, having a planetary sprocket-chainwheel transmission mechanism or planetary gears for compacting garbage inside the garbage tank. As a result, the garbage is pressed with a large compression coefficient, thus increasing the capacity of storing and collecting of the electric garbage collecting vehicle. The present disclosure futher provides an electric garbage collecting vehicle having a steering wheel reversing mechanism used for a vehicle having the rear steering wheel to allow the vehicle to turn in the same direction of the rotable direction of the steering mechanism. The electric garbage collecting vehicle further comprises a garbage tank with a floodproof structure for electric motor, thereby the vehicle can travel through the flooded areas without affecting the operation of the electric motor.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025739 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD OF LASER CUTTING A STEEL

(51) International classification	:C22C0038000000, C22C0038040000, C22C0038020000, C22C0038580000, B23K0026380000	(71)**Name of Applicant :** **1)ARCELORMITTAL** Address of Applicant :24-26, Boulevard d'Avranches L-1160 Luxembourg Luxembourg
(31) Priority Document No	:PCT/IB2018/059988	(72)**Name of Inventor :** **1)MANOHAR, Murali**
(32) Priority Date	:13/12/2018	
(33) Name of priority country	:PCT	
(86) International Application No Filing Date	:PCT/IB2019/060016 :21/11/2019	
(87) International Publication No	:WO 2020/121088	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
A method for laser cutting a steel alloy sheet/plate having a composition comprising, in wt. %: C: 0.01 - 0.29; Mn: 0.50 -1.35; P: 0.04 max; S: 0.05 max; Si: 0.40 max; Cr: 0.5 - 0.75, and the remainder being iron and impurities, the steel alloy is free from intentional additions of Cu and Ni and containing less than 0.05% of total cumulated amounts of Cu and Ni.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025740 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BISPECIFIC ANTIBODIES FOR ACTIVATION OF IMMUNE CELLS

(51) International classification	:C07K0016280000, A61K0039000000, A61P0035000000, A61K0039395000, C07K0016300000
(31) Priority Document No	:62/760328
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060982 :12/11/2019
(87) International Publication No	:WO 2020/102233
(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)TSO, J Yun

(57) Abstract :
The invention provides bispecific antibodies having one arm binding to a cancer associated antigen on a cancer cell, such as CD33, EGFR or PD-L1, and a second arm binding to a costimulatory molecule, such as 0X40, CD40, GITR, ICOS or 4-1BB. Bridging by the bispecific antibody between cancer cells expressing the cancer associated antigen and immune cells expressing the costimulatory molecule results in clustering of the costimulatory molecules and selective activation of the immune cells at a location proximate to the cancer cells. Thus, the immune cells can exert an immunotherapeutic effect against the cancer cells with reduced toxicity to healthy tissue.

No. of Pages : 102 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025741 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LAMINATION DEVICE AND PROCESS THEREOF

(51) International classification	:B32B0037100000, B30B0005020000, B32B0017100000, B32B0037000000, G03F0007160000
(31) Priority Document No	:PCT/IB2018/059995
(32) Priority Date	:13/12/2018
(33) Name of priority country	:PCT
(86) International Application No Filing Date	:PCT/IB2019/060592 :10/12/2019
(87) International Publication No	:WO 2020/121178
(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)VIGNAL, Renaud
2)WOUTERS, Paul
3)FOURDRINIER, Lionel

(57) Abstract :
The invention relates to a lamination device (1) for laminating a photovoltaic stack (32) on a profiled metallic panel (28), the lamination device comprising a lid (3) covered on its underside with an upper flexible pressure membrane (20) so as to form an airtight upper chamber (10) that may be ventilated or evacuated and/or comprising an upper heating device (11) whose bottom side has a crenellated profile, the device also comprising a chassis (2) covered on its top with a lower flexible pressure membrane (6) so as to form an airtight lower chamber (7) that may be ventilated or evacuated and/or comprising a lower heating device (23) whose upper side has a cross-section which differs from the crenellated profile of the bottom side of the upper heating device, wherein the lid is capable of sealably laying on the chassis so that the cavity thus formed is airtight and may be ventilated or evacuated. The invention also relates to the corresponding process.

No. of Pages : 21 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025742 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEFINING AND MANAGING FORMS IN A DISTRIBUTED LEDGER TRUST NETWORK

(51) International classification	:H04L0009320000, H04L0029060000, G06Q0030020000, H04L0009060000, G06F0040174000
(31) Priority Document No	:62/760789
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061002 :12/11/2019
(87) International Publication No	:WO 2020/102242
(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)NATALENKO, Stanislav S.
2)KEISER, Jeffrey, A.
3)GADNIS, Ashish

(57) Abstract :
Mechanisms to customize forms in a distributed ledger trust network (DLTN) are described. A given user can specify metadata that defines a form to be completed by other users, where the metadata that defines the form is stored in a blockchain. The given user can set permissions for the form, so as to control access to the form, and assign the form to other users for completion. After another user has submitted an instance of a form (including data entered by the other user) to the blockchain, the given user can review and approve the instance of the form, or request a correction to the form by the other user. The blockchain can store a record of the form, instances of the form that include data provided by other users at different stages, and information about the status of those instances of the form (e.g., approved, correction requested, rejected).

No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025743 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IMAGE-BASED MONITORING AND DETECTION OF TRACK/RAIL FAULTS

(51) International classification	:B61K0009080000, B61L0023040000, G06T0007000000, B61L0025020000, B61L0027000000
(31) Priority Document No	:62/917035
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061112 :13/11/2019
(87) International Publication No	:WO 2020/102297
(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)CHUNG, Kevin Kwong-Tai
2)HUANG, Yulin
3)ZHU, Dexi
4)DONG, Victor
5)DONG, Xinjin

(57) Abstract :
A system (100) and method (300-460) for monitoring a track (200) and/or rail (220) employs one or more imagers (120, 120A, 120S) mounted to a railcar (250) and directed to image the track (200) and/or rails (220) wherein the images are geo-tagged with location data. Geo-tagged images are processed to determine at least track gauge and/or at least rail fastener integrity. The system (100) and method (300-460) may also determine other track (200) and/or rail (220) integrity issues including, e.g., rail fastener integrity, rail profile, rail alignment, center point dip, cross level, rail cant, wheel wear, wheel integrity, rail wear, rail defects, and/or rail temperature. The system (100) and method (300-460) may also determine when inspection and/or maintenance of the track (200) is indicated, and provide selected records of where and/or when such inspection and/or maintenance is indicated.

No. of Pages : 66 No. of Claims : 47

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025744 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MANAGING PERMISSIONS TO ACCESS USER DATA IN A DISTRIBUTED LEDGER TRUST NETWORK

(51) International classification	:H04L0029060000, G06F0021620000, H04L0009320000, G06Q0030020000, G06Q0020060000
(31) Priority Document No	:62/760789
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061008 :12/11/2019
(87) International Publication No	:WO 2020/102246
(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)GADNIS, Ashish
2)KEISER, Jeffrey A.
3)NATALENKO, Stanislav S.

(57) Abstract :
Mechanisms to manage permissions to access user data in a distributed ledger trust network (DLTN) are described. A given user can share access to user data in a fine-grained way. Access to user data can depend on the category of the user data and/or the role of another user (e.g., whether the other user is recognized as a connection). Access to user data can be limited in duration. Permissions to access user data can be set proactively or reactively. A protocol allows a potential reviewer to request access to the user data of a given user, with the given user selectively approving or rejecting access by the reviewer. In this way, a given user can control access to user data in the DLTN, selectively granting (or revoking) access to some of the user data or all of the user data, by selected other users or by all other users.

No. of Pages : 45 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025745 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FORMULATIONS OF INFLUENZA THERAPEUTICS

(51) International classification	:A61K0009000000, A61K0048000000, A61K0031122000, A61K0009127000, A61K0031050000
(31) Priority Document No	:62/760121
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061065 :13/11/2019
(87) International Publication No	:WO 2020/102270
(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)COCRYSTAL PHARMA, INC.
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(72)**Name of Inventor :**
1)ZHAO, Tianjing
2)MAO, Liang
3)JACOBSON, Irina, C.
4)LEE, Sam, SK

(57) Abstract :
Provided herein are compositions of an antiviral therapeutic to treat influenza suitable for administration via inhalation.

No. of Pages : 23 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025753 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HANDHELD ECG MONITORING SYSTEM WITH FAULT DETECTION

(51) International classification	:A61B0005000000, A61B0005040800, A61B0005040400, A61B0005043200, A61B0005053000
(31) Priority Document No	:10/433745
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IL2019/051212 :06/11/2019
(87) International Publication No	:WO 2020/100135
(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)AMITAI, David
2)AMITAI, Assaf

(57) Abstract :
An ECG system and a method for operating a handheld device that provides input to an ECG system are disclosed. The handheld device has a plurality of receiving channels. Each receiving channel includes an electrode that is adapted for receiving electrical signals from a patient's body when the electrode is pressed against the patient's body at a predetermined location on the patient's body. The method includes monitoring an output signal from each of the channels for any of a plurality of invalid signal conditions during a period of time in which the output signal is used to generate a standard lead or precordial lead trace, signaling a user that the handheld device is improperly positioned on the patient's body, and instructing the user on how to correct a placement of the handheld device based on the detected invalid signal condition.

No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/06/2021

(21) Application No.202117025754 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : UNIFIED IDENTIFICATION PROTOCOL FOR TRAINING AND HEALTH

(51) International classification	:G06F0021600000, H04L0012911000, H04L0009320000, G06F0016220000, H04W0012000000
(31) Priority Document No	:U201832006
(32) Priority Date	:28/12/2018
(33) Name of priority country	:Spain
(86) International Application No Filing Date	:PCT/ES2019/000076 :13/12/2019
(87) International Publication No	:WO 2020/136289
(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)LATORRE LOPEZ, Fernando
2)SALA CANO, Nuria

(57) Abstract :
The present invention describes a unified identification protocol for training and health, which comprises: a multipurpose unified identifier used to identify individuals and the relationships established with them, such as relationships with entities, professionals, products, services and transaction; and the generation of a clearly distinguishable, non-transferable, unique multipurpose identifier by means of a computer system. The computer system identifies individuals universally by means of a universally unique identifier (UUID), decentralized identifier (DID) and/or other formats, to prevent identification errors and unify the data of a single individual that exist in different systems, stored in one or more electronic devices of the individual and/or of their legal custodians and also in one or more cloud services, and certify the access permissions granted/denied to the various data compartments in the individual's profile and the authenticity of the data, which is carried out in one or more distributed data registry technologies or blockchains.

No. of Pages : 44 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025774 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : THROMBUS REMOVAL DEVICE

(51) International classification	:A61B0017220000, A61B0017221000, A61B0017320700, A61F0002010000, A61M0031000000
(31) Priority Document No	:201811482200.X
(32) Priority Date	:05/12/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/095335 :10/07/2019
(87) International Publication No	:WO 2020/113957
(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)LI, Siyi

(57) Abstract :
The present invention relates to the field of interventional medical instruments, and relates in particular to a thrombus removal device used for removing a thrombus in a blood vessel. The thrombus removal device comprises an elongated delivery member and a plurality of thrombus removal members disposed on the elongated delivery member; the thrombus removal member has a compressed configuration and an expanded configuration formed from the compressed configuration by means of self-expansion; at least one thrombus removal member among the plurality of thrombus removal members is rotatably connected to the elongated delivery member. By means of causing the thrombus removal member to have rotational degrees of freedom, the thrombus removal device provided by the present invention enables a thrombus to enter the thrombus removal member more easily by means of a thrombus entrance so that the thrombus removal member may fully expand and fully contact the thrombus, thereby achieving more effective capture of the thrombus.

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025825 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PROCESS AND DEVICE FOR ANAEROBIC PURIFICATION

(51) International classification	:C02F0003280000, C02F0003080000, C02F0003300000, C12N0001200000, C02F0001380000
(31) Priority Document No	:18215493.0
(32) Priority Date	:21/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086595 :20/12/2019
(87) International Publication No	:WO 2020/127918
(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)FRIJTERS, Cornelia Theresia Maria Johanna
2)DE BRUIN, Sebastiaan Leonardo

(57) Abstract :
The present invention relates to a process for the separation of biomass in the anaerobic purification of wastewater and to a system for the separation of biomass in the anaerobic purification of wastewater.

No. of Pages : 12 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025826 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PEDICLE SCREWS

(51) International classification	:A61B0017700000, A61B0017860000, A61B0017560000, A61B0017800000, B23B0031200000
(31) Priority Document No	:2018904378
(32) Priority Date	:16/11/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/AU2019/051260 :15/11/2019
(87) International Publication No	:WO 2020/097691
(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)SOUTHERN CROSS PATENTS PTY LTD
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(72)**Name of Inventor :**
1)MCPHEE, Robert

(57) Abstract :
The present invention is broadly directed to a modular pedicle screw assembly (10) for immobilisation and stabilisation of spinal segments in a patient (not shown). The modular pedicle screw assembly (10) generally comprises a bone screw (12), a uniaxial inner collet (14) arranged to cooperate with a head (16) of the bone screw (12), a seat (18) arranged to provide seating for retention of the inner collet (14), and an inner collet actuator (20) designed to engage the seat (18) to activate the inner collet (14) for clamping about the head (16) of the bone screw (12).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025834 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ALKALINE POUCH CELL WITH COATED TERMINALS

(51) International classification	:H01M0002020000, H01M0002260000, H01M0010280000, H01M0004240000, H01M0002320000
(31) Priority Document No	:16/192512
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061688 :15/11/2019
(87) International Publication No	:WO 2020/102661
(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)WEISENSTEIN, Adam
2)CHARKEY, Allen
3)MCINTYRE, Melissa D.
4)LATIMER, Blaine D.
5)WASHBURN, Benjamin J.

(57) Abstract :
A battery cell includes an electrode assembly having a negative electrode, positive electrode, and separator bathed in an alkaline electrolyte, a pouch encapsulating the electrode assembly, and first and second tabs respectively extending from the positive and negative electrodes through the pouch. The first tab has thereon a coating including acrylic paint and the second tab has thereon a coating including lacquer to discourage creepage of the alkaline electrolyte along the first and second tabs and out of the pouch.

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

(12) PATENT APPLICATION PUBLICATION | (21) Application No.202117025835 A

(19) INDIA

(22) Date of filing of Application :10/06/2021 | (43) Publication Date : 19/11/2021

(54) Title of the invention : WAFER RECONSTITUTION AND DIE-STITCHING

No. of Pages : 247 No. of Claims : 71

(51) International classification	:H01L0021560000, H01L0023000000, H01L0025000000, H01L0023498000, H01L0023538000	(71)**Name of Applicant :** **1)APPLE INC.** Address of Applicant :One Apple Park Way Cupertino, California 95014 U.S.A.
(31) Priority Document No	:62/773135	(72)**Name of Inventor :** **1)DABRAL, Sanjay**
(32) Priority Date	:29/11/2018	**2)ZHAI, Jun**
(33) Name of priority country	:U.S.A.	**3)LAI, Kwan-Yu**
(86) International Application No	:PCT/US2019/062702	**4)HU, Kunzhong**
Filing Date	:21/11/2019	**5)RAMACHANDRAN, Vidhya**
(87) International Publication No	:WO 2020/112505	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Stitched die packaging techniques and structures are described in which reconstituted chips are formed using wafer reconstitution and die-stitching techniques. In an embodiment, a chip includes a reconstituted chip-level back end of the line (BEOL) build-up structure (310) to connect a die set (110, 110) embedded in an inorganic gap fill material (130).

No. of Pages : 20 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION | (21) Application No.202117025839 A

(19) INDIA

(22) Date of filing of Application :10/06/2021 | (43) Publication Date : 19/11/2021

(54) Title of the invention : TEST METHOD AND EQUIPMENT FOR EVALUATING COLLISION PERFORMANCE OF METAL SHEET FOR VEHICLE BODY

(51) International classification	:G01N0003200000, B62D0021150000, B62D0025040000, G01N0003280000, B32B0007050000	(71)**Name of Applicant :** **1)JFE STEEL CORPORATION** Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011 Japan
(31) Priority Document No	:2018-235767	(72)**Name of Inventor :**
(32) Priority Date	:17/12/2018	**1)SATO Kentaro**
(33) Name of priority country	:Japan	**2)FUTATSUKA Takayuki**
(86) International Application No Filing Date	:PCT/JP2019/049189 :16/12/2019	**3)SAKAIDANI Tomohiro** **4)KOMINE Shinsuke**
(87) International Publication No	:WO 2020/129903	**5)KAWASAKI Yoshiyasu**
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The purpose of the present invention is to be able to perform a test method for evaluating collision performance with high accuracy, in which a complex event that has actually occurred can be reproduced with a simple method in consideration of the deformation history of both press molding and collision, and with little variation in results. The test method for evaluating the collision resistance of a metal sheet for a vehicle body is characterized in that: first, a flat test piece made of a metal sheet to be tested is primarily bent and deformed into a V shape by using a press working device; next, the primarily bent and deformed test piece is secondarily bent and deformed in a direction intersecting the primarily bent and deformed direction by using a bending test device; and the bending load and the bending stroke of the test piece during the secondary bending deformation are recorded and evaluated.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025840 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LIGHTING DEVICE FOR RIDDEN VEHICLE

(51) International classification	:F21Y0115100000, F21S0043140000, B60Q0001260000, F21S0043310000, F21V0019000000
(31) Priority Document No	:2018-239114
(32) Priority Date	:21/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/037845 :26/09/2019
(87) International Publication No	:WO 2020/129345
(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)MANOCHOMPOO Chinnapong
2)WANGROONGRUENGKUL Pattarasorn

(57) Abstract :
Provided is a lighting device for a ridden vehicle, the lighting device making it possible for an extension member disposed between an outer lens and a reflector to be caused to efficiently emit light by an LED light source. The present invention provides a lighting device (12) for a ridden vehicle, the lighting device (12) having an LED light source (37, 39) mounted on a substrate (35), a reflector member (60) disposed, with respect to the vehicle, above or below the LED light source (37, 39), and an extension member (50) that is disposed forward, with respect to the vehicle, from the reflector member (60) and has a transmission part (52) provided to at least one portion, wherein the LED light source (37, 39) is disposed near the extension member (50) in a front view of the vehicle. A reflection surface (68, 69) for reflecting light radiating from the LED light source (37, 39) toward the extension member (50) is provided at a position that is rearward, with respect to the vehicle, from the extension member (50) and forward, with respect to the vehicle, from the LED light source (37, 39).

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025841 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PROCESS FOR SYNTHESIZING S-TRIAZINE COMPOUNDS

(51) International classification	:C08G0018380000, C07C0201120000, C07C0029700000, C07F0009000000, C07C0227040000
(31) Priority Document No	:18216012.7
(32) Priority Date	:31/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086105 :18/12/2019
(87) International Publication No	:WO 2020/141081
(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)MEHTA, Hiten
2)RAGHUVEER, Tallam
3)RAMESH, Karmakonda
4)SRINIVAS, Uppalanchi
5)PAVANKUMAR, Duddilla

(57) Abstract :
According to the invention, a process for synthesizing a UV filter having the Formula X is provided, where R is independently selected from linear or branched aliphatic groups having 1 to 20 carbon atoms, the process comprising: (i) Esterifying p-nitrobenzoic acid by reacting it with a linear or branched-chain alcohol having from 1 to 20, preferably from 4 to 10, carbon atoms; (ii) Reducing the p-nitrobenzoic acid ester from (i) in an aprotic organic solvent to produce a p-aminobenzoic acid ester; (iii) Reacting the p-aminobenzoic acid ester from (ii) with a less than stoichiometric amount of cyanuric halide to produce a compound according to Formula X.

No. of Pages : 11 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202117025843 A
(19) INDIA
(22) Date of filing of Application :10/06/2021
(43) Publication Date : 19/11/2021

(54) Title of the invention : PERFUME MICROENCAPSULATION

(51) International classification	:C11D0003500000, A61K0047690000, A61Q0019000000, B01J0013160000, B01J0013140000
(31) Priority Document No	:18216011.9
(32) Priority Date	:31/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086095 :18/12/2019
(87) International Publication No	:WO 2020/141080
(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)WAGDARE, Nagesh, Appasaheb
2)PANDEY, Someshwarnath, Dinanath

(57) Abstract :
According to the invention, a core-shell microcapsule is provided comprising a cross-linked polymeric shell encapsulating a perfume-containing core, wherein the cross-linked polymeric shell is the reaction product of a functionalized polysiloxane, a polyisocyanate and a polyamine and wherein the functionalized polysiloxane comprises a polysiloxane backbone, one or more ethoxylated alcohol side chains and one or more substituted or unsubstituted alkyl or aliphatic cycloalkyl side chains.

No. of Pages : 17 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025844 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMMUNICATION DEVICE, COMMUNICATION CONTROL DEVICE, COMMUNICATION METHOD, AND COMMUNICATION CONTROL METHOD

(51) International classification	:H04W0016280000, H04B0007060000, H01Q0003240000, H04W0072080000, H04W0076110000
(31) Priority Document No	:2019-002220
(32) Priority Date	:09/01/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/048484 :11/12/2019
(87) International Publication No	:WO 2020/145008
(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)TAKANO, Hiroaki

(57) Abstract :
Provided is a communication device comprising: an acquisition unit that acquires beam link identifiers corresponding one-to-one with beam measurement results relating to beams transmitted from a base station; and a communication control unit that uses the beam link identifiers to designate a beam link with the base station that is to be stopped.

No. of Pages : 58 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025845 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMMUNICATION DEVICE, COMMUNICATION METHOD, AND PROGRAM

(51) International classification	:H04W0072040000, H04L0005000000, H04W0012060000, H04W0004800000, H04L0029080000
(31) Priority Document No	:2019-002386
(32) Priority Date	:10/01/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/049606 :18/12/2019
(87) International Publication No	:WO 2020/145056
(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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Address of Applicant :1-7-1, Konan, Minato-ku, Tokyo 1080075 Japan
(72)**Name of Inventor :**
1)KUSASHIMA, Naoki

(57) Abstract :
A communication device according to the present invention comprises a communication unit that performs wireless communication, and a control unit that performs sensing of a carrier with a base station, and performs control such that a wireless signal is transmitted via a designated carrier from the base station in accordance with the results of the sensing, wherein the control unit performs control such that information pertaining to the transmission of uplink control information is acquired from the base station when transmission of the uplink control information via the carrier has been suppressed.

No. of Pages : 60 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025846 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WIRELESS BASE STATION, AND TERMINAL DEVICE

(51) International classification	:H04L0005000000, H04L0025020000, H04B0007060000, H04W0084120000, H04L0027260000
(31) Priority Document No	:2019-003742
(32) Priority Date	:11/01/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/051401 :27/12/2019
(87) International Publication No	:WO 2020/145194
(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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Address of Applicant :1-7-1, Konan, Minato-ku, Tokyo 1080075 Japan
(72)**Name of Inventor :**
1)HIRATA Ryuichi
2)AIO Kosuke

(57) Abstract :
The present disclosure relates to a wireless base station and a terminal device with which it is possible to shorten the time required to collect sounding information by a plurality of wireless base stations, and to suppress a deterioration in tracking accuracy. When a wireless base station serving as a master performs channel measurement with a terminal device, the wireless base station instructs other wireless base stations to perform channel measurement, and by transmitting, once only, a sounding trigger frame containing transmission timings or transmission streams for channel measurement frames, makes it possible for the channel measurement frames for the radio base stations, including itself, to be transmitted with either the same timing or with a different timing. The present invention is applicable to communication systems employing wireless LANs.

No. of Pages : 69 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025848 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WIRELESS CHARGING HOLSTER FOR PORTABLE ELECTRONIC DEVICE

(51) International classification	:H02J0007020000, H02J0007000000, H02J0050100000, F41C0033020000, H02J0050900000
(31) Priority Document No	:62/775205
(32) Priority Date	:04/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064274 :03/12/2019
(87) International Publication No	:WO 2020/117834
(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)SPRYISON, Benjamin Nolan
2)CABUNOC, Alex Robert
3)YUAN, Jonny

(57) Abstract :
Wireless charging holsters for portable electronic devices (PEDs) are disclosed. A wireless charging holster may include a wireless charger and a holster frame. The holster frame may include a receptacle to integrate the wireless charger within the frame. The wireless charging holster may accept a RED in the proper positioning relative to the wireless charger to charge a battery of the RED without physically obstructing a space between a surface of the wireless charger and the PED.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025849 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FRONT-REAR INTERLOCKING BRAKE SYSTEM FOR SADDLED VEHICLE

(51) International classification	:B62L0003080000, B62L0003040000, B60T0011060000, B60T0007060000, B62K0023080000
(31) Priority Document No	:2018-244448
(32) Priority Date	:27/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/031258 :07/08/2019
(87) International Publication No	:WO 2020/136980
(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)OBA Hiroaki
2)NAKAMURA Hironori

(57) Abstract :
Provided is a front-rear interlocking brake system for a saddled vehicle which can suppress an increase in the height of a low floor when disposing a brake pedal on the low floor. This front-rear interlocking brake system is applied to a saddled vehicle (1) in which a brake lever (400) is disposed on a steering handlebar (2) and a brake pedal (26) is disposed on a low floor (25) that is provided between the steering handlebar (2) and a seat (23). An equalizer (80), which distributes and transmits the operating force input to the brake pedal (26) to a rear wheel brake (BR) and a front wheel brake (BF), is disposed below the pedal pivot shaft (42) of the brake pedal (26). A rear wheel brake cable (150) for transmitting the operating force of the brake pedal (26) to the rear wheel brake (BR) and an interlocking cable (100) for transmitting the operating force of the brake pedal (26) to the front wheel brake (BF) are connected to the equalizer (80).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025856 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WORK VEHICLE, AND WORK MACHINERY EQUIPPED WITH WORK VEHICLE

(51) International classification	:G05D0001020000, G05D0001000000, A01B0069000000, B60W0030180000, A01D0101000000
(31) Priority Document No	:2018-243531
(32) Priority Date	:26/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/049845 :19/12/2019
(87) International Publication No	:WO 2020/137810
(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)KUROGI Toshiaki

(57) Abstract :
The present invention allows autonomous travel to be easily performed even when a travel vehicle (3) and a towed vehicle (2) coupled to the travel vehicle (3) autonomously travel along a planned travel route. A work vehicle (1) is equipped with: a travel vehicle (3) that has a coupling part for coupling a towed vehicle (2), and can travel along a planned travel route (L1); and an autonomous travel control unit (61) that controls the autonomous travel of the travel vehicle (3) on the basis of the planned travel route (L1) and the angle of the coupling part of the travel vehicle (3) relative to the towed vehicle (2) coupled to the coupling part.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025858 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : POSTPARTUM UTERINE HEMORRHAGE DEVICE

(51) International classification	:A61B0017000000, A61B0017120000, A61M0031000000, A61F0013020000, A61B0017420000
(31) Priority Document No	:62/777642
(32) Priority Date	:10/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065504 :10/12/2019
(87) International Publication No	:WO 2020/123525
(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)ALYDIA HEALTH, INC.
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(72)**Name of Inventor :**
1)UCHIDA, Andy, H.
2)ARORA, Piyush
3)DEGENKOLB, Amelia
4)DELLA RIPA, Sara
5)SEGNITZ, Jan
6)BAIR, Nathan

(57) Abstract :
An anti-hemorrhaging device includes an elongate body, a flexible looped segment, a shield, and an inflatable seal. The elongate body is configured to attach to a vacuum source. The flexible looped segment is attached to the elongate body includes a plurality of holes on an inner circumference thereof. The flexible looped segment is configured to be placed in a uterus. Activation of the vacuum source is configured to pull vacuum through the plurality of holes so as to collapse the uterus upon insertion of the elongate body into the uterus. The shield is folded around an exterior circumference of the looped portion and has edges that extend radially inwards relative to the flexible looped distal section. The shield is configured to prevent tissue from occluding the plurality of holes when vacuum is applied. The inflatable seal is attached to the elongate body and is configured to seal the uterus.

No. of Pages : 22 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025865 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CASH PROCESSING DEVICE

(51) International classification	:G08C0017020000, G07D0011500000, B67D0007780000, G07D0011200000, A61B0034350000
(31) Priority Document No	:2018-237730
(32) Priority Date	:19/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/040890 :17/10/2019
(87) International Publication No	:WO 2020/129382
(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)OKI ELECTRIC INDUSTRY CO., LTD.
Address of Applicant :1-7-12, Toranomon, Minato-ku, Tokyo 1058460 Japan
(72)**Name of Inventor :**
1)UEMATSU, Kiyoshi

(57) Abstract :
Provided is a cash processing device comprising: one or a plurality of medium storage units comprising a storage vault and a fluid discharge mechanism unit which discharges a fluid on a medium stored in the storage vault; one or a plurality of discharge control units from which can be read unique identification information associated with the one or the plurality of medium storage units, and which comprises a control unit which, on the basis of a wireless signal from a first wireless communication unit, controls an operation of the corresponding fluid discharge mechanism unit; and a system control unit comprising a state control unit which monitors the occurrence of an anomalous state based on an inputted sensing signal, and a second wireless communication unit which wirelessly communicates the control signal relating to the fluid discharge according to the result of the monitoring by using the unique identification information acquired from each of the discharge control units.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025866 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : THROMBUS EXTRACTION DEVICE AND METHOD

(51) International classification	:A61B0017220000, A61B0017320700, A61B0017320000, A61F0002010000, E02D0001020000
(31) Priority Document No	:201811481427.2
(32) Priority Date	:05/12/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/115807 :05/11/2019
(87) International Publication No	:WO 2020/114180
(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)SHI, Zengzuo
2)HAN, Jianchao
3)FAN, Yaming
4)ZHANG, Linlin
5)ZHU, Qing
6)MIAO, Zhenghua

(57) Abstract :
A thrombus extraction device (100) and a thrombus extraction method. The thrombus extraction device (100) is used for removing thrombus along a guide wire (200) and comprises a thrombus suction assembly and a thrombus extraction assembly, wherein the thrombus suction assembly comprises an outer tube (111), a transmission tube (112), a driving member (114), and a thrombus suction head (113); the outer tube (111) is sleeved outside the transmission tube (112), and one end of the outer tube (111) is connected to the thrombus suction head (113); the thrombus suction head (113) is used for sucking and smashing thrombus, and a thrombus smashing cutter (115) is provided in the thrombus suction head (113); two ends of the transmission tube (112) are respectively connected to the thrombus smashing cutter (115) and the driving member (114); the thrombus extraction assembly is used for pulling thrombus to the thrombus suction head (113) and comprises a balloon (122) and a multi-cavity tube (121) connected to the balloon (122); the balloon (122) can contract or expand after being filled with liquid, a liquid filling cavity (1211) used for filling the balloon (122) with liquid and a guide wire cavity (1212) used for allowing the guide wire (200) to penetrate through are provided in the multi-cavity tube (121); and the multi-cavity tube (121) sequentially penetrates through the transmission tube (112) and the thrombus suction head (113) and enables the thrombus extraction assembly and the thrombus suction assembly to move relatively in an axial direction.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025867 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTRONIC DEVICE WITH ANTENNA

(51) International classification	:H01Q0001240000, H05K0005000000, H01Q0001220000, H01Q0021080000, H01Q0001380000
(31) Priority Document No	:10-2018-0166614
(32) Priority Date	:20/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/018136 :19/12/2019
(87) International Publication No	:WO 2020/130690
(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)JEON, Seunggil
2)PARK, Jongsam
3)HONG, Seongbeom
4)MOON, Sunghoon
5)LEE, Kyungwoo
6)CHOI, Wonjoon

(57) Abstract :
An electronic device is provided and includes a housing including a first plate facing in a first direction, a second plate facing in a second direction opposite to the first direction, and a side surface member surrounding at least part of a space between the first and second plates; a printed circuit board including a first surface facing in the first direction and a second surface facing in the second direction, the printed circuit board being disposed in the housing; an antenna module disposed on the first surface of the printed circuit board and adjacent to the side surface member, forming a first gap therewith, the antenna module being configured to radiate an antenna beam in a third direction which is perpendicular to the first and second directions; a wireless communication circuit electrically connected with the antenna module, and configured to transmit or receive a signal having a frequency between 3 gigahertz (GHz) and 100 GHz; and a dielectric structure including a seating portion to have the antenna module mounted thereon, and configured to form the antenna beam to be radiated toward an outside of the housing in the third direction.

No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025882 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A NOVEL APTAMER AND AN ELECTROCHEMICAL BIOSENSOR FOR THE RAPID DETECTION AND DIAGNOSIS OF TUBERCULOUS MENINGITIS

(51) International classification	:G01N0027327000, C12N0015115000, G01N0033569000, C12Q0001682500, G01N0027480000
(31) Priority Document No	:201811042593
(32) Priority Date	:13/11/2018
(33) Name of priority country	:India
(86) International Application No Filing Date	:PCT/IN2019/050827 :08/11/2019
(87) International Publication No	:WO 2020/100159
(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)ALL INDIA INSTITUTE OF MEDICAL SCIENCES
3)APTABHARAT INNOVATION PRIVATE LIMITED
(72)**Name of Inventor :**
1)SHARMA, Tarun Kumar
2)TYAGI, Jaya Sivaswami
3)DHIMAN, Abhijeet
4)DAS, Ritu

(57) Abstract :
The invention provides a novel HspX specific aptamer, an electrochemical biosensor based on HspX specific aptamer for rapid and sensitive diagnosis of Tuberculosis meningitis and methods of detecting Tuberculous meningitis.

No. of Pages : 11 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025886 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUGMENTATION OF IMAGES WITH SOURCE LOCATIONS

(51) International classification	:A61B0005046000, G09B0023300000, A61B0005046400, A61B0005040200, G16H0050500000
(31) Priority Document No	:62/760561
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/058217 :25/10/2019
(87) International Publication No	:WO 2020/101864
(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)VILLONGCO, Christopher

(57) Abstract :
Systems are provided for generating data representing electromagnetic states of a heart for medical, scientific, research, and/or engineering purposes. The systems generate the data based on source configurations such as dimensions of, and scar or fibrosis or pro-arrhythmic substrate location within, a heart and a computational model of the electromagnetic output of the heart. The systems may dynamically generate the source configurations to provide representative source configurations that may be found in a population. For each source configuration of the electromagnetic source, the systems run a simulation of the functioning of the heart to generate modeled electromagnetic output (e.g., an electromagnetic mesh for each simulation step with a voltage at each point of the electromagnetic mesh) for that source configuration. The systems may generate a cardiogram for each source configuration from the modeled electromagnetic output of that source configuration for use in predicting the source location of an arrhythmia.

No. of Pages : 134 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025887 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DENDRITIC CELL GENERATING APPARATUS AND METHOD

(51) International classification	:C12M0001000000, B01J0008020000, C12M0003000000, A47C0027080000, B01F0013020000
(31) Priority Document No	:16/192062
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060695 :11/11/2019
(87) International Publication No	:WO 2020/102062
(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)KOZBIAL, Andrew

(57) Abstract :
A cell culture cartridge is provided comprising a plurality of zones geometrically configured to provide for symmetrical fluid flow with each of the plurality of zones to avoid dead areas in flow within each of the plurality of zones. In certain embodiments, at least eight inlets are provided, with an inlet positioned at each corner of the cell culture cartridge. In certain embodiments, a shared outlet is positioned on a top surface of the cell culture cartridge.

No. of Pages : 52 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025891 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTISPECTRAL HARMONIZATION DEVICE DESIGNED TO ALIGN THE OPTICAL PATHS OF AN OPTRONIC SYSTEM

(51) International classification	:G02B0027100000, G11B0007127500, H01S0003081000, G01N0021350400, H04B0010110000
(31) Priority Document No	:1872709
(32) Priority Date	:11/12/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2019/084145 :09/12/2019
(87) International Publication No	:WO 2020/120362
(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)SAFRAN ELECTRONICS & DEFENSE
Address of Applicant :72-76 rue Henry Farman, 75015 Paris, France France
(72)**Name of Inventor :**
1)DAVENEL, Arnaud

(57) Abstract :
A multispectral harmonization device, designed to align the optical paths of an optronic system, comprises at least two directional optical sources (121 to 124) emitting respective optical beams (131 to 134) of different wavelengths belonging to different spectral bands, and comprises a parabolic mirror (10) and means for positioning and orienting each of the optical sources (121 to 124) so that each of the optical beams (131 to 134) emitted by the optical sources (121 to 124) passes through the focal point (11) of the parabolic mirror (10) prior to being reflected by the parabolic mirror (10) such that the set of optical beams (141 to 144) forms a multispectral collimated beam (18) by reflection on the parabolic mirror (10).

No. of Pages : 14 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025907 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : VIDEO CODING METHOD ON BASIS OF SECONDARY TRANSFORM, AND DEVICE FOR SAME

(51) International classification	:H04N0019180000, H04N0019176000, H04N0019105000, H04N0019610000, H04N0019122000
(31) Priority Document No	:62/782294
(32) Priority Date	:19/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/KR2019/018071 :19/12/2019
(87) International Publication No	:WO 2020/130661
(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)KOO, Moonmo
2)KIM, Seunghwan
3)LIM, Jaehyun

(57) Abstract :
A video decoding method according to the present document is characterized by comprising: a step for deriving transform coefficients through inverse quantization on the basis of quantized transform coefficients for a target block; a step for deriving modified transform coefficients on the basis of an inverse reduced secondary transform (RST) of the transform coefficients; and a step for generating a reconstructed picture on the basis of residual samples for the target block on the basis of an inverse primary transform of the modified transform coefficients, wherein the inverse RST using a transform kernel matrix is performed on transform coefficients of the upper-left 4x4 region of an 8x8 region of the target block, and the modified transform coefficients of the upper-left 4x4 region, upper-right 4x4 region, and lower-left 4x4 region of the 8x8 region are derived through the inverse RST.

No. of Pages : 101 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025910 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : POWER CONVERSION DEVICE AND POWER CONVERSION SYSTEM

(51) International classification	:H02J0003380000, H02J0003320000, H02J0007000000, H02J0007350000, H01M0010440000
(31) Priority Document No	:2018-237540
(32) Priority Date	:19/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/043309 :05/11/2019
(87) International Publication No	:WO 2020/129440
(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)LEE Chia Tse
2)KAGEYAMA Hiroshi
3)ITO Tomomichi
4)ICHINOSE Masaya

(57) Abstract :
The present invention discloses a power conversion device and a power conversion system capable of reliably suppressing power fluctuation in accordance with SOC. The power conversion device (101) controls the charging and discharging of a storage battery (106) and is provided with a power converter (102) interconnected to a power system (104). The power converter outputs the power from the storage battery to the power system and charges the storage battery with the power input from the power system. The power converter charges or discharges, in accordance with the state of charge of the storage battery, the storage battery with respect to one of the increased and decreased amounts of a system frequency and does not charge and discharge the storage battery with respect to the other of the increased and decreased amounts of the system frequency.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025911 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AIR PURIFYING COATING SYSTEM AND METHOD FOR MAKING SAME

(51) International classification	:B01J0021060000, C08K0003220000, C09D0007400000, C09D0011322000, C09D0007620000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/US2018/063097 :29/11/2018
(87) International Publication No	:WO 2020/112117
(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)BONA AB
Address of Applicant :Murmansgatan 130 21225 Malmö Sweden
(72)**Name of Inventor :**
1)SCHIERLMANN, John F
2)PESHEL, Pietrina
3)LAWSON, Erica

(57) Abstract :
An air purifying coating system and method for making same having a carrier agent and a diatomic frustule titanium dioxide particle dispersion combined with the carrier agent. The coating system may include 70-99.9 weight percent carrier agent and 0.1-30 weight percent diatomic frustule titanium dioxide particle dispersion. The carrier agent of the coating system may include a cleaning agent or a polishing agent. The diatomic frustule titanium dioxide particle dispersion may include 1-35 micron particle size diatomic frustule titanium dioxide particles combined with water and dispersion additive. The dispersion may further include an anti-settling additive, a rheology additive, and/or a defoamer.

No. of Pages : 20 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025912 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INTERACTIVE MAZE ATTRACTION SYSTEMS AND METHODS

(51) International classification	:A63G0031160000, A63G0007000000, A63G0033000000, A63G0025000000, A63F0013213000
(31) Priority Document No	:62/772499
(32) Priority Date	:28/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/062007 :18/11/2019
(87) International Publication No	:WO 2020/112410
(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)KING, Steven Morris

(57) Abstract :
An attraction system (10) includes a first level (108, 112), a second level (108, 112) positioned vertically above or below the first level (108, 112), and one or more controllers (134, 136) configured to present a game environment to one or more riders in a ride vehicle (18) as the ride vehicle (18) travels along a path (20) on the first level (108, 112). The attraction system (10) also includes a lift (30) configured to move the ride vehicle (18) vertically from the first level (108, 112) to the second level (108, 112) based at least in part on a performance of the one or more riders in the game environment.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025913 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANIMATED WINDOW SYSTEM

(51) International classification	:H04N0009310000, G06F0003042000, G03B0021140000, G06F0003048800, H04N0013363000
(31) Priority Document No	:16/215438
(32) Priority Date	:10/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065216 :09/12/2019
(87) International Publication No	:WO 2020/123373
(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)GARNIER, Timothy Fitzgerald
2)KRAUTHAMER, Akiva Meir
3)USI, Matthew
4)BATRA, Simran V.
5)MAJDALI, David

(57) Abstract :
An animated window system (10) including a projection surface (12) configured to display at least one image (16) to a viewer (14) on a viewer side (26) of the projection surface, wherein the projection surface comprises a tinted material, a projector (30) spaced apart from the projection surface, wherein the projector is configured to project the at least one image onto a rear side (28) of the projection surface, the rear side opposing the viewer side and a controller (52) comprising a memory (54) and a processor (56), wherein the controller is configured to provide the at least one image to the projector to be projected onto the projection surface.

No. of Pages : 29 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025923 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ADHESIVES FOR CASTABLE URETHANES

(51) International classification	:C08G0018790000, C08G0018810000, C09J0007000000, C09J0171000000, C08G0018620000
(31) Priority Document No	:62/774398
(32) Priority Date	:03/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064103 :03/12/2019
(87) International Publication No	:WO 2020/117722
(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)CARNEY, Brian

(57) Abstract :
Provided are adhesives containing a phenoxy resin grafted with methyl methacrylate (MMA) and/or methacrylic acid (MAA), and including a uretdione or a silane. The adhesive compositions are completely or substantially absent free isocyanate. The grafted phenoxy resin forms crosslinking which allows the adhesive to chemisorb to a metal surface, difuse and entangle in a urethane elastomer and/or provide crossbridging and/or crosslinking across an interface of the adhesive and a cast urethane. Methods of adhering a castable urethane to a substrate, using the provided adhesives, are also provided.

No. of Pages : 43 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025926 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AEROSOL GENERATING ARTICLE WITH LIGHT HOLLOW SEGMENT

(51) International classification	:A24F0047000000, A24D0003040000, A24D0003020000, A24D0003100000, A24B0015160000
(31) Priority Document No	:18214844.5
(32) Priority Date	:20/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086807 :20/12/2019
(87) International Publication No	:WO 2020/128048
(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)PHILIP MORRIS PRODUCTS S.A.
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(72)**Name of Inventor :**
1)UTHURRY, Jérôme

(57) Abstract :
An aerosol-generating article (10) for producing an inhalable aerosol when heated comprises: a rod of aerosol-generating substrate (12); and a hollow tubular segment (16) downstream of and in longitudinal alignment with the rod (12). The hollow tube segment (16) defines a cavity extending all the way from an upstream end of the hollow tubular segment (16) to a downstream end of the hollow tubular segment (16). The article (10) comprises a ventilation zone (26) at a location along the hollow tubular segment. The hollow tubular segment has a length of less than about 25 millimetres. A ratio between a weight of the hollow tubular segment and a volume of the cavity defined by the hollow tubular segment is less than 1 milligram/cubic millimetres. The rod (12) of aerosol-generating substrate comprises at least an aerosol former, the rod (12) having an aerosol former content of at least about 10 percent on a dry weight basis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025930 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TAB PRESS AND METHOD OF MARKING INDICIA ON TAB STOCK

(51) International classification	:B65D0017280000, B21D0051380000, H01R0013660000, G06F0003048300, H05K0003400000
(31) Priority Document No	:1818387.1
(32) Priority Date	:12/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053077 :30/10/2019
(87) International Publication No	:WO 2020/099827
(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)CROWN PACKAGING TECHNOLOGY, INC.
Address of Applicant :11535 South Central Avenue Alsip, Illinois 60803-2599 U.S.A.
(72)**Name of Inventor :**
1)RAMSEY, Chris

(57) Abstract :
A method of marking indicia on tab stock used to provide tabs for use with can ends. The method comprises providing the tab stock to a tab press comprising a punch and a die. The punch comprises a set of raised features and the die comprises a respective set of recessed features such that the features cooperate to deboss said indicia on regions of the tab stock within tab forming areas that face outwardly when the tabs are attached to a tab end. The features are such that, when the press is fully closed, the spacing between at least part of each of the raised features and at least part of each of the respective recessed features is less than the thickness of the tab stock in said regions within tab forming areas.

No. of Pages : 13 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025935 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTIPLEXING HIGHLY EVOLVING VIRAL VARIANTS WITH SHERLOCK DETECTION METHOD

(51) International classification	:C12Q0001700000, C12Q0001687400, G16B0030000000, C12Q0001340000, C12Q0001688300
(31) Priority Document No	:62/767076
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061574 :14/11/2019
(87) International Publication No	:WO 2020/102608
(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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3)THE BROAD INSTITUTE, INC.
(72)**Name of Inventor :**
1)FREIJE, Catherine Amanda
2)METSKY, Hayden
3)SABETI, Pardis
4)MYHRVOLD, Cameron

(57) Abstract :
Methods for generating primers and/or probes for use in analyzing a sample which may comprise a pathogen target sequence are provided, including identifying pan-viral sets of primers and/or probes.

No. of Pages : 95 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025936 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MACHINE SYSTEM HAVING MACHINERY ROLLER ASSEMBLY WITH STATIC SEALING CLAMPING COLLARS

(51) International classification	:B02C0004020000, H01F0027290000, B62D0055150000, H01F0017040000, F28F0001320000
(31) Priority Document No	:16/215751
(32) Priority Date	:11/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/062314 :20/11/2019
(87) International Publication No	:WO 2020/123107
(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)CATERPILLAR INC.
Address of Applicant :100 NE Adams Street Peoria, Illinois 61629-9510 U.S.A.
(72)**Name of Inventor :**
1)UMBACH, Brian
2)TRONE, Matthew W.
3)BAAR, William

(57) Abstract :
A machine system (20) includes a roller frame (22) and a roller assembly (30) mounted to the roller frame (22). The roller assembly (30) includes first and second clamping collars (50) positioned upon a roller shaft (32) and each including a lower (52,53) and an upper collar section (54,55). Fasteners (56,60) clamp the lower (52,53) and upper collar sections (54,55) to the roller shaft (32) to form static seals (58,60). The clamping collars (48,50) may be formed with splitlines (72,73) to enable the clamping collars (48,50) to deform so as to simulate interference fits with the roller shaft (32).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025938 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HANDLING OF 3GPP AND NON-3GPP ACCESS IN THE 5G SYSTEM

(51) International classification	:H04W0088060000, H04W0060000000, H04W0012040000, H04W0092020000, G06Q0020000000
(31) Priority Document No	:62/821939
(32) Priority Date	:21/03/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/023960 :20/03/2020
(87) International Publication No	:WO 2020/191333
(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)APPLE INC.
Address of Applicant :One Apple Park Way Curpertino, California 95014 U.S.A.
(72)**Name of Inventor :**
1)STOJANOVSKI, Alexandre Saso
2)ZAUS, Robert
3)SIROTKIN, Alexander

(57) Abstract :
A computer that establishes a first registration and a second registration in a common wireless communication system is described. During operation, the computer performs a first registration of the user equipment over a first access, where, after the first registration, the user equipment is connected via the first access with a first access and mobility management function (AMF). Then, the computer performs a second registration of the user equipment over a second access, where the second access is different from the first access and, after the second registration, the user equipment is connected via the second access with a second AMF. Moreover, when performing the second registration, the computer: transfers a context of the user equipment from the first AMF to the second AMF; and/or relocates a network interface in a control plane from the first AMF to the second AMF.

No. of Pages : 118 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025939 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NEW RADIO SECONDARY CELL ACTIVATION WITH FINE-BEAM CHANNEL STATE INFORMATION

(51) International classification	:H04W0024100000, H04W0072040000, H04W0016280000, H04L0005000000, H04B0007060000
(31) Priority Document No	:62/826713
(32) Priority Date	:29/03/2019
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2020/024859 :26/03/2020
(87) International Publication No	:WO 2020/205406
(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)APPLE INC.
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(72)**Name of Inventor :**
1)HUANG, Rui
2)YU, Zhibin
3)LI, Qiming
4)CUI, Jie
5)HWANG, Yeong-Sun
6)TANG, Yang
7)JANSSEN, Andre

(57) Abstract :
An electronic device may receive, from a radio node, a measurement configuration associated with a wireless communication system. In response, the electronic device may perform measurements using narrow beam patterns based at least in part on a network configuration, where the narrow beam patterns are narrower than a wide beam pattern of the electronic device. Furthermore, performing the measurements using the narrow beams pattern may include performing a beam-pattern search up to the network configuration. Then, the electronic device may perform an SCell activation procedure of an SCell with the radio node. Note that the SCell activation procedure may include reporting, to the radio node, CSI of a narrow beam pattern of the SCell that is to be activated, where the narrow beam pattern is narrower than the wide beam pattern of the electronic device, and the narrow beam pattern is based at least in part on the measurements.

No. of Pages : 113 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025940 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TYK2 INHIBITORS AND USES THEREOF

(51) International classification	:C07D0519000000, C07D0487040000, C07D0471040000, A61P0035000000, A61P0035020000
(31) Priority Document No	:62/773620
(32) Priority Date	:30/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/063510 :27/11/2019
(87) International Publication No	:WO 2020/112937
(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)NIMBUS LAKSHMI, INC.
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(72)**Name of Inventor :**
1)GREENWOOD, Jeremy Robert
2)MASSE, Craig E.

(57) Abstract :
The present invention provides compounds, compositions thereof, and methods of using the same for the inhibition of TYK2, and the treatment of TYK2-mediated disorders.

No. of Pages : 351 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025943 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMBUSTION ENGINE

(51) International classification	:C10M0169040000, F02P0009000000, F02B0041040000, C08J0005180000, C10L0001040000
(31) Priority Document No	:BR 10 2019 001521 7
(32) Priority Date	:24/01/2019
(33) Name of priority country	:Brazil
(86) International Application No Filing Date	:PCT/BR2019/050482 :08/11/2019
(87) International Publication No	:WO 2020/150797
(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)CARBALLADA, Manuel Exposito
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(72)**Name of Inventor :**
1)CARBALLADA, Manuel Exposito

(57) Abstract :
The present invention relates to a structural arrangement for a stationary internal combustion engine for machines or vehicles (universal), that can use various types of fuel. More specifically, the present invention relates to an internal combustion engine with improved combustion efficiency, improved thermodynamic efficiency, reduced dimensions, an improved power-to-weight ratio that exceeds that of aircraft turbine engines using the Brayton thermodynamic cycle, and up to three times less fuel consumption and gas emissions into the environment.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025944 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TAPERED INDICATOR TO BE USED IN PROCESS CHALLENGE DEVICES

(51) International classification	:A61L0002280000, C02F0011020000, A61B0006030000, A47F0005100000, B60S0001380000
(31) Priority Document No	:PCT/EP2018/080902
(32) Priority Date	:12/11/2018
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2018/080902 :12/11/2018
(87) International Publication No	:WO 2020/098902
(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)GKE GMBH
Address of Applicant :Auf der Lind 10 65529 Waldems Germany
(72)**Name of Inventor :**
1)KAISER, Ulrich

(57) Abstract :
Indicator (22) for process challenge devices (PCDs) to monitor sterilizing processes, comprising a plurality of indicator areas (50, 54, 58, 62, 66) which react with a sterilizing agent and which are arranged spaced apart on a common carrier element (18) in a longitudinal direction (70) of said carrier element (18), whereby said carrier element (18) is built tapered along its longitudinal direction (70).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025950 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HIGH STRENGTH POROUS CEMENT-BASED MATERIALS

(51) International classification	:B32B0005020000, A61B0018200000, E02D0031020000, B29L0031300000, A61L0031100000
(31) Priority Document No	:1818513.2
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053217 :13/11/2019
(87) International Publication No	:WO 2020/099868
(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)KIA, Alalea
2)WONG, Hong S.
3)CHEESEMAN, Christopher R.

(57) Abstract :
Method of forming a cement-based material pad (3) comprising a plurality of drainage holes and forms for use in such a method.

No. of Pages : 29 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025951 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A SYSTEM, METHOD AND DATA STRUCTURE FOR ALLOWING USERS TO ELECTRONICALLY POST COMMENTS

(51) International classification	:G06Q0050000000, G06F0016400000, G06F0040300000, H04L0029060000, G06F0012080400
(31) Priority Document No	:2018904690
(32) Priority Date	:10/12/2018
(33) Name of priority country	:Australia
(86) International Application No Filing Date	:PCT/AU2019/051346 :09/12/2019
(87) International Publication No	:WO 2020/118356
(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)TIPEME HOLDINGS PTY LTD
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(72)**Name of Inventor :**
1)ISAAC, Shane

(57) Abstract :
A system (1) for allowing users (3) to electronically post respective comments (4) with user devices (5), where each comment relates to an item of posted content. The system includes an interface (8, 9) for receiving posted comments and requests (10) for selected posted data (11). The interface (8) directs the selected posted data (11) to devices (5) in response to the respective requests (10) from those devices. The system also includes a database (15) for storing content data (16) for each item of posted content, a count engine responsive to the interface (8) receiving comments (4) from the user devices (5), and a publishing engine (32) responsive to requests (10) for accessing data to generate the selected posted data (11). Associated methods for allowing users (3) to electronically post respective comments (4) with user devices (5) are also disclosed.

No. of Pages : 35 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021
(21) Application No.202117025952 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : POWER CONVERTER CONTROL DEVICE

(51) International classification	:H02M0001320000, H02M0001000000, H02P0029024000, H02M0003335000, H02M0001420000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2019/048333 :10/12/2019
(87) International Publication No	:WO 2021/117146
(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)FUKASAWA, Issei
2)KINOSHITA, Masahiro

(57) Abstract :
Provided is a power converter control device capable of suppressing fluctuation of the output voltage of a power converter. The power converter control device is provided with: an overvoltage detector for detecting an overvoltage on the output side of a power converter; and a controller which, when the overvoltage on the output side of the power converter is detected by the overvoltage detector, performs gate blocking after narrowing down a current command value for the power converter. According to this configuration, when the overvoltage on the output side of the power converter is detected, the control device performs the gate blocking after narrowing down the current command value for the power converter. The fluctuation of the output voltage of the power converter can therefore be suppressed.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025953 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NEEDLE DEPTH SENSOR FOR INJECTOR

(51) International classification	:A61M0005320000, A61M0005340000, H01R0024460000, A61M0005148000, H05K0003300000
(31) Priority Document No	:62/760628
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060740 :11/11/2019
(87) International Publication No	:WO 2020/102084
(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)WEST PHARMACEUTICAL SERVICES, INC.
(72)**Name of Inventor :**
1)HEZKIAHU, Ran
2)VANSTONE, Ross
3)FARRIS, Jason, W.
4)PRATT, Spencer

(57) Abstract :
An injector includes an injector housing defining a skin contact surface and an injection needle supported within the housing and movable from a retracted position to an injection position. A circuit board is supported within the housing and movable with the injection needle, the circuit board including an electrically disconnected circuit having a contact surface. An electromechanical sensor is also supported within the housing and movable with the injection needle. The electromechanical sensor defines an electrically conductive portion that is disengaged from the contact surface of the circuit when the injection needle is in the retracted position and engaged with the contact surface of the circuit so as to electrically connect the circuit when the injection needle is in the injection position

No. of Pages : 10 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025954 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AL PLATFORM WITH REAL-TIME ANALYTICS AND SOCIAL INCENTIVE REFERRALS

(51) International classification	:G06Q0010100000, G06Q0030020000, G06Q0050000000, G06Q0030060000, G10L0015260000
(31) Priority Document No	:62/702068
(32) Priority Date	:23/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/043018 :23/07/2019
(87) International Publication No	:WO 2020/023501
(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)BODDAPU, Srinivasa Rao

(57) Abstract :
A system for providing a platform with real-time analytics and social incentive referrals to assist with recruiting of talent to a company. The system includes candidate to position matching and referral incentives to identify higher quality candidates for each position listing. In some cases, the system may provide recommendations to either the candidate or the listing company to improve the hiring process and candidate matching.

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025955 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PERENNIAL MONOCOTYLEDON GRAFTING

(51) International classification	:C12N0015820000, A23D0009020000, A01N0003020000, A01G0002300000, A61K0031707600
(31) Priority Document No	:1818578.5
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053232 :14/11/2019
(87) International Publication No	:WO 2020/099879
(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)CAMBRIDGE ENTERPRISE LIMITED
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(72)**Name of Inventor :**
1)REEVES, Gregory
2)HIBBERD, Julian

(57) Abstract :
The invention relates to the grafting of perennial monocots such as bananas and oil palms. Processes for the production of such plants are disclosed herein.

No. of Pages : 21 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025956 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COAGULATABLE MIXTURE FOR SEALING A TIRE PUNCTURE

(51) International classification	:C08L0023160000, C09K0008035000, C09K0005200000, H02G0003040000, D04H0003007000
(31) Priority Document No	:62/768737
(32) Priority Date	:16/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060898 :12/11/2019
(87) International Publication No	:WO 2020/102182
(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)GARCIA DE ARBOLEYA FERNANDEZ, Alfonso

(57) Abstract :
Various embodiments of the present disclosure relate to a coagulatable mixture. The coagulatable mixture includes a solvent component; an antifreeze component; a latex component; and a solid filler component.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025958 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SUPPORT DEVICE AND STORAGE CONTAINER FOR LIQUEFIED GAS

(51) International classification	:F16M0011200000, H02G0015340000, H02B0001300000, E02F0003760000, F16F0015080000
(31) Priority Document No	:1872652
(32) Priority Date	:11/12/2018
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/FR2019/052923 :04/12/2019
(87) International Publication No	:WO 2020/120877
(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)L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE
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(72)**Name of Inventor :**
1)FOURNEL, Jean-Luc

(57) Abstract :
Disclosed is a device for supporting a first piece of cryogenic equipment (2) in a second piece of equipment (3), the first piece of equipment (2) being intended to be kept at a cryogenic temperature whereas the second piece of equipment (3) is intended to be kept at a temperature higher than the temperature of the first piece of equipment (2), the support device (15) comprising a fixed rigid link extending in a longitudinal direction (A) between one end of the second piece of equipment (3) and an adjacent end of the first piece of equipment (2), the fixed rigid link comprising a set of walls (4, 5, 6, 7) arranged back and forth in the longitudinal direction (A) so as to constitute a thermal insulation path between the second piece of equipment (3) and the first piece of equipment (2), characterised in that the set of walls arranged back and forth in the longitudinal direction (A) of the fixed rigid link comprises at least one wall (6) made from titanium. A vessel comprising such a device is also disclosed.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025960 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MECHANICAL ENGINE FOR GENERATING ENERGY BY MEANS OF WATER MOVEMENT

(51) International classification	:F03C0099000000, F03B0017060000, F03B0013160000, F02C0007080000, H02N0011000000
(31) Priority Document No	:BR102018012716-0
(32) Priority Date	:21/06/2018
(33) Name of priority country	:Brazil
(86) International Application No Filing Date	:PCT/BR2019/050024 :29/01/2019
(87) International Publication No	:WO 2019/241861
(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)CORREA ANTUNES, Hamilton
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(72)**Name of Inventor :**
1)CORREA ANTUNES, Hamilton

(57) Abstract :
The invention relates to a mechanical engine (1) to (41), with the auxiliary assemblies thereof, for the purpose of generating mechanical and electrical energy, or both, it being possible for power stations with this system to be built beside the sea or a river, or offshore, or on islands, where there is no cost benefit in producing energy using conventional methods, or in places that are practically inaccessible but where there are waves, tides or differences in water levels. As these water-based energy sources exist in abundance globally, potential future plants that use this system will be able to be more widely dispersed, and there can be more of them, thereby reducing the number of posts, towers, compensation equipment, components and transmission lines.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/06/2021

(21) Application No.202117025961 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFANT CARRIER

(51) International classification	:A47D0013020000, H04L0029080000, E05B0067000000, G01B0021020000, G03G0015010000
(31) Priority Document No	:10-2018-0160361
(32) Priority Date	:12/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/009246 :25/07/2019
(87) International Publication No	:WO 2020/122347
(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)LEE, Jin-Seob

(57) Abstract :
The present invention relates to an infant carrier. Specifically, according to one embodiment of the present invention, an infant carrier may comprise: a waist wearing member having a circumferential length that can wrap around at least a portion of a user's waist; and a tightening unit for selectively bringing the waist wearing member closer to the user's waist, wherein the tightening unit may comprise: a cable member; a locking part for movably supporting the cable member; and an adjusting part capable of adjusting the circumferential length by winding or unwinding the cable member.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117025989 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DEVICE FOR RANDOM BLOOD SUGAR TESTING AND THE METHOD OF ITS USE

(51) International classification	:G01N0033543000, G01N0033487000, C12Q0001000000, B01L0009000000, G01N0035000000
(31) Priority Document No	:PV 2019-228
(32) Priority Date	:11/04/2019
(33) Name of priority country	:Czech Republic
(86) International Application No Filing Date	:PCT/CZ2019/050042 :02/10/2019
(87) International Publication No	:WO 2020/207514
(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)NOVÁK, Marek

(57) Abstract :
The device is composed of at least one disposable biosensor (2) for applying a blood sample, as well as evaluation electronics (1) for retrieving and processing information from the disposable biosensor (2) with the applied blood sample, as well as a display (7) for displaying information from the evaluation electronics (1). Disposable biosensors (2) and a display (7) are arranged in a common vapour non-permeable closable space, wherein the display (7) is hygroscopic to bind air moisture which would otherwise be bound by disposable biosensors (2). The display (7), evaluation electronics (1) and disposable biosensors (2) can be arranged on a common support substrate (4), wherein the support substrate (4) is provided with a removable and/or openable vapour non-permeable container. Disposable biosensors (2) can be detachable from the support substrate (4).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117025993 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PROCESS FOR UPGRADING RENEWABLE LIQUID HYDROCARBONS

(51) International classification	:C01B0003380000, C10G0031080000, C10K0003000000, C10G0001000000, C10G0009360000
(31) Priority Document No	:PA 201970087
(32) Priority Date	:08/02/2019
(33) Name of priority country	:Denmark
(86) International Application No Filing Date	:PCT/EP2020/025057 :10/02/2020
(87) International Publication No	:WO 2020/160850
(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)IVERSEN, Steen B.
2)GUERRERO, Julie Katerine Rodriguez
3)ALMAO, Pedro Rafael Pereira
4)TIBERI, Monica Bartolini
5)VACCARI, Marianna Isabel Trujillo
6)CARBOGNANI, Lante Antonio

(57) Abstract :
The invention relates to a catalytic process for upgrading a renewable crude oil produced from biomass and/or waste comprising providing a renewable crude oil and pressurizing it to a pressure in the range in the range 60 to 150 bar, contacting the pressurized renewable crude oil with hydrogen and at least one heterogeneous catalyst contained in a first reaction zone at a weight based hourly space velocity (WHSV) in the range 0.1 to 2.0 h-1 and at a temperature in the range of 150 °C to 360 °C, hereby providing a partially upgraded renewable crude oil, separating the partially upgraded renewable crude oil from the first reaction zone to a partially upgraded heavy renewable oil fraction, a partially upgraded light renewable oil fraction, a water stream and a process gas stream, introducing the separated and partially upgraded heavy renewable oil fraction and separated process gas to a second reaction zone comprising at least two reactors arranged in parallel and being adapted to operate in a first and a second mode of operation, the reactors comprising dual functioning heterogeneous catalyst(-s) capable of performing a catalytic steam cracking reaction in a first mode of operation or a steam reforming reaction in a second mode of operation, where the partially upgraded heavy renewable oil fraction from the first reaction zone is contacted with the dual functioning heterogeneous catalyst and steam at a pressure of 10 to 150 bar and a temperature of 350 °C to 430 °C whereby a catalytic steam cracking of the partially upgraded heavy renewable oil is performed in the reactors in the first mode of operation, hereby providing a further upgraded heavy renewable oil fraction, while separated process gas from the first and/or second reaction zone is contacted with the dual functioning catalyst and steam at a pressure of 0.1 to 10 bar and a temperature of 350 to 600 °C in the reactors in the second mode of operation and contacted with the dual functioning catalyst, thereby producing a hydrogen enriched gas, separating the further upgraded heavy renewable oil fraction from the catalytically steam cracking reactor to at least one light renewable oil fraction, a heavy renewable oil fraction, a hydrogen rich process gas and a water phase, separating hydrogen from the hydrogen enriched gas from the catalytic steam cracking zone and/or from the catalytic steam reforming and recycling it to the first reaction zone, alternating the reactors between the first mode of operation and the second mode of operation at predetermined time intervals thereby allowing for regeneration of the heterogeneous catalyst for the catalytic steam cracking in the first mode of operation while performing the steam reforming reaction of the hydrocarbons contained in the process gas in the second mode of operation;

No. of Pages : 48 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117025998 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : IL-15 COMPOSITIONS AND METHODS OF USE THEREOF

(51) International classification	:A61K0038200000, C07K0014540000, C07K0014715000, A61K0039000000, C07K0016280000
(31) Priority Document No	:62/779793
(32) Priority Date	:14/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/066287 :13/12/2019
(87) International Publication No	:WO 2020/123980
(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)LI, Zijuan

(57) Abstract :
Provided are compositions comprising an activatable proprotein comprising a first IL-15 or a variant thereof and a second IL-15Ra or variant thereof fused to a masking moiety comprising an antibody Fc region, and methods of using the same for cancer immunotherapy and other therapies.

No. of Pages : 201 No. of Claims : 77

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026015 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NUCLEIC ACID AMPLIFICATION AND IDENTIFICATION METHOD

(51) International classification	:C12N0015100000, C12Q0001685300, C12Q0001684400, C12Q0001685800, C12Q0001686900
(31) Priority Document No	:18212743.1
(32) Priority Date	:14/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/085095 :13/12/2019
(87) International Publication No	:WO 2020/120747
(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)GÖPEL, Yvonne
2)MOLL, Pamela
3)REDA, Torsten
4)SEITZ, Alexander

(57) Abstract :
The present invention provides a method for generating labelled amplification fragments of a nucleic acid template comprising the steps of providing said template nucleic acid, annealing at least one oligonucleotide primer to said template nucleic acid, elongating the at least one oligonucleotide primer in a template specific manner thereby creating an elongation product, wherein said elongating reaction stops when the elongation product reaches the 5' end of the template nucleic acid or a nucleic acid elongation stopper that is annealed to the template nucleic acid downstream of the elongation product, providing an adaptor nucleic acid that comprises an identification sequence on its 5' end,wherein said identification sequence does not hybridize to the elongation stopper when in contact thereto, ligating the adaptor nucleic acid at its 5' end to the 3' end of the elongation product, thereby generating a labelled amplification fragment.

No. of Pages : 30 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026016 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : 2-FORMYL-3-HYDROXYPHENYLOXYMETHYL COMPOUNDS CAPABLE OF MODULATING HEMOGLOBIN

(51) International classification	:C07C0215100000, C07D0267140000, C07D0491048000, C07D0271060000, C07D0209820000
(31) Priority Document No	:62/769196
(32) Priority Date	:19/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/062054 :18/11/2019
(87) International Publication No	:WO 2020/106642
(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)LI, Zhe

(57) Abstract :
The present disclosure relates generally to compounds and pharmaceutical compositions suitable as modulators of hemoglobin, and methods for their use in treating disorders mediated by hemoglobin.

No. of Pages : 185 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026017 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CRISPR SYSTEM BASED DROPLET DIAGNOSTIC SYSTEMS AND METHODS

(51) International classification	:C12N0009220000, C12Q0001681600, C12Q0001687600, C12Q0001680600, C12Q0001682700
(31) Priority Document No	:62/767070
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061577 :14/11/2019
(87) International Publication No	:WO 2020/102610
(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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3)MASSACHUSETTS INSTITUTE OF TECHNOLOGY
4)THE GENERAL HOSPITAL CORPORATION
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1)FREIJE, Catherine Amanda
2)METSKY, Hayden
3)SABETI, Pardis
4)THAKKU, Gowtham
5)KEHE, Jared
6)ACKERMAN, Cheri
7)BLAINEY, Paul
8)HUNG, Deborah
9)MYHRVOLD, Cameron

(57) Abstract :
RNA targeting proteins are utilized to provide a robust massively multiplexed CRISPR-based diagnostic by detection in droplets with attomolar sensitivity. Detection of both DNA and RNA with comparable levels of sensitivity at nanoliter volumes can differentiate targets from non-targets based on single base pair differences, with applications in multiple scenarios in human health including, for example, viral detection, bacterial strain typing, and sensitive genotyping.

No. of Pages : 265 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026020 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEMS AND METHODS FOR USING INTEGRATED PAY-ON-DEMAND VIRTUAL CARDS

(51) International classification	:G06Q0020340000, G06Q0030060000, G06Q0020400000, G06Q0020320000, G06Q0020200000
(31) Priority Document No	:16/220853
(32) Priority Date	:14/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/066266 :13/12/2019
(87) International Publication No	:WO 2020/123966
(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)CLAUS, Christopher
2)GUERRA, Sebastian
3)HOLCOMB, Brian Emerson
4)LE, Tu P

(57) Abstract :
Systems and methods for using integrated pay-on-demand virtual cards are disclosed. According to one embodiment, a method for using pay-on-demand virtual payment cards may include: (1) receiving, from a buyer electronic device, a selection of one or more goods or services offered by a supplier in the online marketplace and an indication that the buyer will use a pay-on-demand virtual payment card to pay for the goods or services; (2) receiving, from the buyer electronic device or a backend for a financial institution associated with the pay-on-demand virtual payment card, information for the pay-on-demand virtual payment card; (3) associating the pay-on-demand virtual payment card with the goods or services in a transaction; (4) providing the transaction to the backend for the financial institution; and (5) receiving a reconciliation file for the transaction from the backend for the financial institution.

No. of Pages : 15 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026025 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFORMATION PROCESSING DEVICE, MOBILE DEVICE, METHOD, AND PROGRAM

(51) International classification	:G06K0009000000, A61B0005110000, A61B0003113000, B60W0050140000, B60W0040080000
(31) Priority Document No	:2019-000975
(32) Priority Date	:08/01/2019
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/050983 :25/12/2019
(87) International Publication No	:WO 2020/145161
(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)OBA, Eiji
2)KADOSHITA, Kohei

(57) Abstract :
The present invention analyses the eye movement of a driver attempting to solve a task displayed on a display unit and determines whether or not the driver has the level of alertness required for manual driving. A determination is made regarding whether or not the driver has a level of alertness whereby a return to manual driving is possible, on the basis of the eye movement of the driver of a mobile device that can be switched between automatic operation and manual operation. The present invention has: an eye movement analysis unit that analyses the eye movement of a driver observing a task displayed on the display unit; and an alertness level determination unit that determines the level of alertness of the driver on the basis of the analysis results from the eye movement analysis unit. The alertness level determination unit analyses whether or not the driver is executing eye movements such as fixations and microsaccades for solving the task and makes a determination regarding whether or not the driver has the level of alertness for returning to manual operation.

No. of Pages : 182 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026026 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : FRAGRANCE PROCESS

(51) International classification	:C11D0003000000, A61K0008370000, C11D0003500000, C08G0073060000, C11D0003370000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/EP2018/085157 :17/12/2018
(87) International Publication No	:WO 2020/125921
(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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Address of Applicant :Chemin de la Parfumerie 5 1214 Vernier Switzerland
(72)**Name of Inventor :**
1)FERRY, Aurelie

(57) Abstract :
A method of extending the olfactory effect of a fragrance added to a washed item, comprising the addition to the wash of the fragrance, the fragrance comprising at least one compound selected from the group consisting of ethyl (Z)-2-acetyl-4-methyltridec-2-enoate; ethyl N,S-bis(4-oxo-4-(2,6,6-trimethylcyclohex-3-en-1-yl)butan-2-yl)cysteinate; 4-(dodecylthio)-4-methylpentan-2-one;1-butoxy-3-((1E,4Z)-hepta-1,4-dien-1-yl)benzene; and 2-ethoxy-4-((1E,4Z)-hepta-1,4-dien-1-yl)phenol. A washed item in which the washing utilized at least one of the compounds and which was then stored, for example, in a cupboard, closet or drawer, is found to have retained a substantial proportion of the fragrance, and for a longer time.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026027 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING SAME

(51) International classification	:H01M0010056700, H01M0010052000, H01M0010056900, H01M0010056800, C08F0220220000
(31) Priority Document No	:10-2018-0160981
(32) Priority Date	:13/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/017622 :12/12/2019
(87) International Publication No	:WO 2020/122650
(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, Gwang Yeon
2)OH, Jeong Woo
3)LEE, Chul Haeng
4)KIM, Hyung Tae

(57) Abstract :
The present invention relates to an electrolyte for a lithium secondary battery and a lithium secondary battery comprising same, the electrolyte comprising: a lithium salt having a molar concentration of 1.5-2.0 M; an oligomer comprising a unit represented by chemical formula 1 and containing an acrylate group at an end thereof; a first additive represented by chemical formula 2; and an organic solvent.

No. of Pages : 37 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026028 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : HEPATITIS B VIRUS VACCINE AND USES THEREOF

(51) International classification	:A61K0039000000, A61K0009510000, C07K0014005000, A61K0045060000, A61K0039390000
(31) Priority Document No	:62/778549
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065151 :09/12/2019
(87) International Publication No	:WO 2020/123341
(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)SU, Zhuang
2)YANG, Meijia

(57) Abstract :
A hepatitis B vims (HBV) vaccine particle is described, including a recombinant HBV surface antigen including L surface protein; optionally M surface protein; and optionally S surface protein; wherein the molar percentage of L surface protein to the sum of L, M, and S surface proteins is at least about 1 mole %, 8 mole %, 10 mole %, 20 mole %, 30 mole %, 40 mole %, or 50 mole %. Methods of making the same and methods of treating or preventing HBV infection in a subject using the same are also described.

No. of Pages : 26 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026029 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LIGHT ABSORPTION LAYER, PHOTOELECTRIC CONVERSION ELEMENT, AND SOLAR CELL

(51) International classification	:H01L0051420000, H01L0051000000, H01G0009200000, H01L0031035200, H01L0051440000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/042655 :19/11/2018
(87) International Publication No	:WO 2020/105087
(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)HOSOKAWA,Hiroji

(57) Abstract :
The present invention pertains to a light absorption layer for forming a photoelectric conversion element and a solar cell having an excellent photoelectric conversion efficiency, and a photoelectric conversion element and a solar cell having the light absorption layer. This light absorption layer contains a perovskite compound and quantum dots, and the quantum dots have a circularity of 0.50-0.92. The present invention is a light absorption layer, a photoelectric conversion element, and a solar cell containing a perovskite compound and quantum dots, wherein the particle shape of the quantum dots is controlled, the surface of the quantum dots is covered by a compound having a specific energy level, or the above features are combined, whereby it is made possible to obtain a light absorption layer, a photoelectric conversion element, and a solar cell having an excellent photoelectric conversion efficiency.

No. of Pages : 83 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026030 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : LIGANDS FOR PRODUCTION OF 1-OCTENE IN CHROMIUM ASSISTED ETHYLENE OLIGOMERIZATION PROCESS

(51) International classification	:B01J0031180000, C09K0021120000, C07C0002320000, C08F0004659000, B01J0031140000
(31) Priority Document No	:62/758783
(32) Priority Date	:12/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/059668 :11/11/2019
(87) International Publication No	:WO 2020/100007
(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)KOROBKOV, Ilia
3)ALBAHILY, Khalid

(57) Abstract :
Catalyst compositions and processes for the oligomerization of ethylene to 1-octene are described. The catalyst composition includes a triamino bisphospino (NPNPN) ligand system with specific phosphorous and nitrogen ligands. The terminal nitrogen atoms include linear alkyl hydrocarbons that differ in the number of carbon atoms by 3.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026031 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DISPLAY AND DOCKING APPARATUS FOR A PORTABLE ELECTRONIC DEVICE

(51) International classification	:G06F0001160000, H04B0001387700, H04M0001020000, F16M0011380000, H05K0005020000
(31) Priority Document No	:62/782224
(32) Priority Date	:19/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/067581 :19/12/2019
(87) International Publication No	:WO 2020/132303
(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)SPYRISON, Benjamin Nolan
2)CABUNOC, Alex Robert
3)YUAN, Jonny
4)TWITCHETT, Mark Jonathan

(57) Abstract :
Display and docking apparatuses for portable electronic devices are disclosed. A display apparatus includes a portable electronic device assembly and a docking stand assembly. A portable electronic device assembly includes a portable electronic device (PED) and a case. A docking stand assembly includes a docking tray to removably attach to the PED assembly, a base, a hinge connecting the docking tray and the base and to allow the docking tray to pivot relative to the base, and a cable attached to a first interface and a second interface. The cable is to travel through at least a portion of the docking stand assembly with the first interface located at the base of the docking stand assembly and the second interface available at (or integrated into) the docking tray. The base may be divided into one or more removeable modules, each module providing additional functionality to the display apparatus.

No. of Pages : 19 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021
(21) Application No.202117026032 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DYNAMIC STATE DISPLAY DEVICE, DYNAMIC STATE DISPLAY SYSTEM, DYNAMIC STATE DISPLAY METHOD, AND DYNAMIC STATE DISPLAY PROGRAM

(51) International classification	:G01C0021360000, G06T0017050000, G06F0003048000, A61B0001000000, G06F0003048100
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/043284 :22/11/2018
(87) International Publication No	:WO 2020/105193
(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)OYAMA Takahiro
2)MOCHIZUKI Ryosuke
3)KUMAMOTO Misaki

(57) Abstract :
A dynamic state display device (5) displays, in real time, the present positions of a plurality of to-be-displayed objects belonging to any one of a plurality of groups including a first group and a second group. The dynamic state display device is provided with: a positional information acquisition unit (202) that acquires positional information of each of the plurality of to-be-displayed objects; a display unit; and a display control unit (203) that, on the basis of the positional information acquired by the positional information acquisition unit (202), controls the display unit so as to display, in real time, icon images indicating the present positions of the to-be-displayed objects on a map image. The display control unit (203) has a display mode switching unit (204) that switches, at a predetermined time interval, between a plurality of display modes including a first group display mode for displaying, in real time, the icon images of the to-be-displayed objects belonging to the first group and a second group display mode for displaying, in real time, the icon images of the to-be-displayed objects belonging to the second group.

No. of Pages : 35 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026036 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CELL WASHING APPARATUS

(51) International classification	:A61M0001360000, A61M0001020000, A01N0001020000, A61K0035180000, A61M0001260000
(31) Priority Document No	:1820272.1
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053497 :11/12/2019
(87) International Publication No	:WO 2020/120954
(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)HAEMAIR LIMITED
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1)JOHNS, William Richard
2)KNIGHT, Ronald Kelvin

(57) Abstract :
A cell washing apparatus is provided to wash a cell-containing fluid. The apparatus is arranged to exchange one or more exchangeable entities from a cell-containing first fluid, and comprises, a first fluid conduit and a second fluid conduit, the second fluid conduit separated from the first fluid conduit by a semi-permeable membrane disposed therebetween; the first fluid conduit having a first fluid inlet and a first fluid outlet, the first fluid conduit arranged to transport the first fluid in a first direction between the first fluid inlet and the first fluid outlet; the second fluid conduit being arranged to house a second fluid; wherein the semi-permeable membrane comprises a plurality of pores arranged to permit transport of said one or more exchangeable entities from the first fluid to the second fluid; wherein the one or more exchangeable entities comprise free haemoglobin and/or blood plasma; and wherein the first fluid is whole blood isolated from a human body, or packed red blood cells. The cell washing apparatus of the present invention aims to solve the problem of harmful species that accumulate in a cell-containing fluid (such as, for example, transfusion blood) during storage and other applications, in which it is desired to transfer red blood cells to a clean suspending liquid.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021
(21) Application No.202117026037 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ELECTRONIC DEVICE FOR GENERATING VIDEO COMPRISING CHARACTER AND METHOD THEREOF

(51) International classification	:G06K0009000000, G06F0003048400, G06F0003048100, G06F0003023000, G06F0003048800
(31) Priority Document No	:10-2018-0155328
(32) Priority Date	:05/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/017097 :05/12/2019
(87) International Publication No	:WO 2020/116960
(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)PARK, Miji
4)PARK, Chunhyoung
5)SHIN, Jiyoung
6)HAN, Jiwan
7)OH, Younghak

(57) Abstract :
An electronic device and method are disclosed. The electronic device includes a display, a processor and memory. The processor may implement the method, including analyzing, by a processor, a first video to identify any characters included in the first video, displaying one or more icons representing one or more characters identified in the first video via a display, receiving, by input circuitry, a first user input selecting a first icon representing a first character from among the one or more icons, based on the first user input, selecting image frames of the first video that include the first character from among image frames included in the first video, and generating, by the processor, a second video including the selected image frames. A second embodiment includes automatically selecting images from a gallery including one or more characters for generation of a video.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026038 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : DELIVERY OF BIOACTIVE MOLECULES IN COATINGS OR SURFACE LAYERS OF ORGANICALLY ENHANCED INORGANIC FERTILIZERS

(51) International classification	:C05G0005300000, C05G0003000000, C05G0003800000, C05B0007000000, C05G0005120000
(31) Priority Document No	:62/767172
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061276 :13/11/2019
(87) International Publication No	:WO 2020/102420
(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)SIEGEL, Sanford A.

(57) Abstract :
The invention is directed to coated fertilizer granules and methods for manufacturing granules and using organically enhanced inorganic fertilizer granules, which incorporate a coating of one or more concentric layers over a core such that the coating contains a bioactive agent such as a herbicide, pesticide, plant growth regulator, microorganism, or beneficial element. Application of the coating to the fertilizer granule preferably involves binding of the bioactive agent to the surface of granule or to the organic components within the granule. The release of the bioactive agent from the coating and or the surface of the granule preferably results in a two-phased release, a first fast release and a second extended or slow-release of the bioactive agent into the soil metering the bioavailability of the bioactive agent for crop growth or protection, and/or for controlling unwanted vegetation or pests.

No. of Pages : 21 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026045 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PLUG CONNECTOR PART FOR CONTACTING IN MULTIPLE SPATIAL DIRECTIONS

(51) International classification	:H01R0013645000, B60L0053160000, H01R0013514000, H01R0004020000, H01R0013625000
(31) Priority Document No	:10 2018 132 142.2
(32) Priority Date	:13/12/2018
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/EP2019/083242 :02/12/2019
(87) International Publication No	:WO 2020/120186
(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)BRAND, Fredrik
2)BEHLING, Bernd

(57) Abstract :
The invention relates to a plug connector part (1) for electrically connecting to a counter plug connector part (2; 2'), comprising a housing (10) and multiple contacts (11), which are arranged on the housing (10) in such a way that they can be electrically contacted from different plugging directions (A, B, C) by counter contacts (21) of the counter plug connector part (2; 2'). In addition, the angular position of the contacts (11) is fixed relative to the housing (10).

No. of Pages : 15 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026046 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CAPACITIVE LIQUID LEVEL SENSOR AND LIQUID SENSOR ASSEMBLY

(51) International classification	:G01F0023260000, A61B0017240000, F04D0015020000, A47J0027000000, F03B0017060000
(31) Priority Document No	:1820355.4
(32) Priority Date	:13/12/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053524 :12/12/2019
(87) International Publication No	:WO 2020/120971
(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)HO, King
2)SHEPHERD, William, E.

(57) Abstract :
A capacitive liquid level sensor (1). The sensor comprises a sensor body in the form a tongue with a freely depending portion (3) extending to a distal tip (6) at its lowermost end. A set of spaced capacitive electrodes (7) extend along the tongue towards the distal tip. In use, when the distal tip (6) of the tongue is immersed in a body of liquid, the capacitance between the electrodes (7) changes depending on the depth of the body of liquid. The width of the tongue increases in the downward direction at least for part of the bottom half of the freely depending part of the tongue.

No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026047 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR PROTECTING AN INNER WALL OF A SHAFT FURNACE

(51) International classification	:C21B0005000000, F27B0001240000, F27B0001160000, A61M0005310000, C21B0007100000
(31) Priority Document No	:LU101057
(32) Priority Date	:13/12/2018
(33) Name of priority country	:Luxembourg
(86) International Application No Filing Date	:PCT/EP2019/085174 :13/12/2019
(87) International Publication No	:WO 2020/120771
(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)MAGGIOLI, Nicolas
2)MUSTAFA, Esmer

(57) Abstract :
A method for protecting an inner wall (12) of a shaft furnace, the method comprising the steps of: providing at least one injection device (28) through the inner wall (12) of the shaft furnace, the injection device (28) being configured to inject protective material into the shaft furnace; and injecting on demand the protective material into the shaft furnace through the injection device (28), in such a manner that the protective material builds up to form a protection wall between the interior of the shaft furnace and the furnace wall (12).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026049 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : 3-SUBSTITUTED PHENYLAMIDINE COMPOUNDS, PREPARATION AND USE THEREOF

(51) International classification	:A01N0043160000, A01N0037520000, C07C0045670000, C07D0213300000, C07D0295185000
(31) Priority Document No	:201911001543
(32) Priority Date	:14/01/2019
(33) Name of priority country	:India
(86) International Application No Filing Date	:PCT/IB2020/050213 :13/01/2020
(87) International Publication No	:WO 2020/148617
(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)RATHOD, Kishor Singh
5)GUMME, Sachin Nagnath
6)AUTKAR, Santosh Shridhar
7)GARG, Ruchi
8)VENKATESHA, Hagalavadi M
9)KLAUSENER, Alexander G.M.

(57) Abstract :
The present invention disclosed 3-substituted phenylamidine compounds of general formula (I), wherein R1, R2, R3, R4, R4a, R4b, A and E have the same meanings as defined in description. The present invention further discloses methods for their preparation and use of the compounds of general formula (I) as a crop protection agent.

No. of Pages : 129 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026054 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SURFACE-TREATED STEEL SHEET

(51) International classification	:B32B0015010000, C23C0002060000, C22C0038000000, C22C0038020000, C23C0028000000
(31) Priority Document No	:2018-237854
(32) Priority Date	:20/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/044450 :13/11/2019
(87) International Publication No	:WO 2020/129473
(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)MATSUDA Takeshi
3)OKAI Kazuhisa
4)FUSHIWAKI Yusuke
5)MATSUZAKI Akira
6)MIZUNO Daisuke

(57) Abstract :
The purpose of the present invention is to provide a surface-treated steel sheet having excellent corrosion resistance in a worked part, and excellent corrosion resistance particularly in an end part. The present invention provides a surface-treated steel sheet having a chemical conversion film having a thickness of 3.0 μm or less on the surface of a hot-dip Zn-Al plated steel sheet having a hot-dip Zn-Al plating film containing more than 1.0 mass% and no more than 15 mass% of Al, the remainder comprising Zn and unavoidable impurities, the chemical conversion film containing a total of 3.0-50 mass% of $AlH_2P_3O_{10}\cdot 2H_2O$ and a compound containing one or more elements selected from Mg, Ca, and Sr.

No. of Pages : 36 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021
(21) Application No.202117026055 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AUXILIARY GEAR FOR INTERNAL COMBUSTION ENGINE

(51) International classification	:F02B0033400000, F01M0013040000, F02B0041040000, F02B0067000000, F16H0055180000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/046974 :20/12/2018
(87) International Publication No	:WO 2020/129211
(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)IWATA, Kenta
5)TSUCHIDA, Takahiro
6)KONDO, Atsushi
7)MATSUMURA, Tomoyuki
8)UENO, Jumpei
9)HOSOYA, Ryohei

(57) Abstract :
A resin-made auxiliary gear for an internal combustion engine with which the desired backlash with a motive power transmission gear made from a metal material that the auxiliary gear meshes with is achieved even after the auxiliary gear has been immersed in lubricating oil containing a blow-by gas or dew condensation water, gear cost can be reduced, durability can be improved, and meshing sound can be reduced. An auxiliary gear 82 for an internal combustion engine meshes with a motive power transmission gear 47 that transmits driving force of a crankshaft 31 to auxiliary machinery 8 of an internal combustion engine 3, wherein the motive power transmission gear is made from an iron-based metal material and is provided so as to rotate integrally with the crankshaft, the auxiliary gear for an internal combustion engine is a resin-made gear made by injection molding into a single composition of a heat-resistant resin not containing reinforcing materials such as fibers, the auxiliary gear is provided to a rotating shaft 88 rotatably supported inside a crank case 35 that supports the crankshaft, and the gear shape of the auxiliary gear for an internal combustion engine in a completely dry state before initial use is set so that the backlash with the motive power transmission gear is greater than a prescribed minimum state when the auxiliary gear for an internal combustion engine is in a maximum swollen state of having absorbed moisture.

No. of Pages : 40 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026056 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ION-EXCHANGEABLE LITHIUM-CONTAINING ALUMINOSILICATE GLASSES

(51) International classification	:C03C0003091000, C03C0003095000, C03C0003087000, C03C0021000000, C03C0003097000
(31) Priority Document No	:62/778418
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064426 :04/12/2019
(87) International Publication No	:WO 2020/123224
(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)PRIVEN, Alexander I

(57) Abstract :
Glass compositions having from 50 to 80 mol% SiO2, less than or equal to 25 mol% Al2O3, from 6.5 to 10.0 mol% Li2O and, optionally, other components, such as alkali metal oxides, alkaline earth metal oxides, zinc oxide, phosphorus oxides, rare earth metal oxides, boron oxide, and small amounts of other species, such as titania, zirconia, and tin oxide. The glass compositions are characterized by zero or positive values of the ratios, in terms of mol%: Al2O3 - SR2O= 0, or Al2O3 - SR2O - SRO =0, or Al2O3 - SR2O - SRO - P2O5= 0, where R2O means alkali metal oxides and RO means divalent metal oxides. The glass compositions may have a liquidus viscosity greater than or equal to 1000 Poises to less than or equal to 300,000 Poises.

No. of Pages : 57 No. of Claims : 66

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026057 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A METHOD OF COUNTERING MALODOUR IN A WASHING MACHINE COMPRISING THE ADDITION OF A FRAGRANCE PRECURSOR

(51) International classification	:C11D0003500000, D06F0033000000, C11D0003000000, D06F0039140000, D06M0016000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/EP2018/085158 :17/12/2018
(87) International Publication No	:WO 2020/125922
(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)FERRY, Aurelie

(57) Abstract :
A method of countering malodour in a washing machine at the end of a wash cycle, comprising the addition thereto of a fragrance precursor. The fragrance precursor may be added alone in solution, or as part of a fabric softener/conditioner. The precursor is particularly ethyl (Z)-2-acetyl-4- methyltridec-2-enoate; ethyl N,S-bis(4-oxo-4-(2,6,6-trimethylcyclohex-3-en-1-yl)butan-2-yl)cysteinate;4-(dodecylthio)-4-methylpentan-2-one; 1-butoxy-3-((1E,4Z)-hepta-1,4-dien-1- yl)benzene;2-ethoxy-4-((1E,4Z)-hepta-1,4-dien-1-yl)phenol; and mixtures thereof. The use of precursor in this manner provides a washing machine that is free from malodour for a prolonged period.

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026058 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CELLULOSE RAW MATERIAL AND METHOD FOR RECYCLING A CELLULOSE RAW MATERIAL FROM BLENDED TEXTILE WASTE

(51) International classification	:B29B0017000000, C08B0001000000, C08L0001020000, D01G0011040000, C22B0007000000
(31) Priority Document No	:18215489.8
(32) Priority Date	:21/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/079067 :24/10/2019
(87) International Publication No	:WO 2020/126171
(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)KLAUS-NIETROST, Christoph
3)WEILACH, Christian

(57) Abstract :
A recycled cellulose raw material and a method for recycling a cellulose raw material from blended textile waste with high reliability and yielding high raw material quality is shown, the method comprising the steps in the given order: providing the blended textile waste containing at least one cellulose component and at least one synthetic polymer component, treating the blended textile waste in a non-oxidizing aqueous treatment medium in order to degrade the at least one synthetic polymer component, whereby the treatment is carried out at a temperature between 100 °C and 200 °C, and obtaining the recycled cellulose raw material from the treated blended textile waste.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026059 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PERSONALIZED TOPICAL APPLICATION PATCH

(51) International classification	:H01L0021762000, H04L0029060000, A61Q0019000000, C40B0060140000, H01L0033480000
(31) Priority Document No	:62/781115
(32) Priority Date	:18/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/IB2019/061011 :18/12/2019
(87) International Publication No	:WO 2020/128891
(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)JOHNSON & JOHNSON CONSUMER INC.
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(72)**Name of Inventor :**
1)HANSEN, Jonathan
2)HOPSON, Peyton
3)ROSSETTI, Dianne
4)SOUTHALL, Michael

(57) Abstract :
A personalized topical application patch includes a patch substrate having a plurality of isolated regions; and one or more active benefit agents disposed at least one of the plurality of isolated regions.

No. of Pages : 22 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026064 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : APPARATUS AND METHOD FOR EVACUATING VERY LARGE VOLUMES

(51) International classification	:F04B0041060000, F04D0027020000, F04C0023000000, F26B0005040000, F04D0025060000
(31) Priority Document No	:62/767862
(32) Priority Date	:15/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060049 :06/11/2019
(87) International Publication No	:WO 2020/101973
(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)FLOWSERVE MANAGEMENT COMPANY
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(72)**Name of Inventor :**
1)KOESTERS, Heiner
2)TEMMING, Joerg
3)SIEBELS, Soenke
4)KUEHLEIN, Daniel

(57) Abstract :
A target volume evacuation system includes a turbo compressor and a vacuum pump, the system being operable in a first configuration to reduce the target volume pressure from ambient to a first intermediate pressure, e.g. between 200 mbar and 50 mbar, and in a second configuration to further reduce the pressure from a second intermediate pressure, e.g. 10 mBar, to a target partial vacuum, e.g. between 0.1 and 1 mbar. The turbo compressor can be driven electrically or by fuel combustion, and can be a conventional or modified turbojet engine. A plurality of turbo compressors can be transitioned from parallel to series operation. The pressure can be reduced from the first to the second intermediate pressure by venting the target volume to a boom-tank volume and/or by configuring the turbo compressor system to provide backing to the vacuum pumping system. The invention is applicable to a hyperloop transport system.

No. of Pages : 28 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026068 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : REGULATING VALVE DISPOSITION STRUCTURE

(51) International classification	:F02M0025080000, F02D0041000000, F02M0035160000, F02M0037000000, B62J0037000000
(31) Priority Document No	:PCT/JP2018/045906
(32) Priority Date	:13/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2018/045906 :13/12/2018
(87) International Publication No	:WO 2020/121487
(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)KUBO Toshihiro
2)NAKAMURA Tomoya

(57) Abstract :
A regulating valve disposition structure according to the present embodiment comprises; a main frame (22) extending in the vehicle-longitudinal direction of a saddle-type vehicle (1); a fuel tank (5) disposed above the main frame (22): a canister (30) disposed below the fuel tank (5); an air intake device (40) disposed below the canister (30), the air intake device (40) introducing return fuel from the canister (30) to an engine (11); a regulating valve (50) disposed between the canister (30) and the air intake device (40), the regulating valve (50) regulating the amount of return fuel from the canister (30); and a purge tube (32) that connects the canister (30) and the regulating valve (50), the regulating valve (50) being provided so that the purge tube (32) can be routed in the vertical direction of the vehicle.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026069 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : BASE STATION, WIRELESS DEVICE, AND COMMUNICATION CONTROL METHOD

(51) International classification	:H04W0072040000, H04B0007155000, H04W0024020000, H04W0074080000, H04W0084120000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/045984 :13/12/2018
(87) International Publication No	:WO 2020/121502
(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)HARADA, Hiroki
2)MURAYAMA, Daisuke
3)NAGATA, Satoshi

(57) Abstract :
This base station is provided with: a control unit that controls a setting related to the use, by a second wireless device, of a wireless resource assigned to a first wireless device; and a transmission unit that transmits information indicating the setting to the second wireless device.

No. of Pages : 34 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026087 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : PRIORITIZED LOW POWER NEIGHBORING NODE DISCOVERY IN AN IOT NETWORK

(51) International classification	:H04W0008000000, H04W0036000000, H04W0072120000, H04W0040240000, H04L0012911000
(31) Priority Document No	:16/190561
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061061 :13/11/2019
(87) International Publication No	:WO 2020/102267
(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)SINGH, Shobhit Kumar
2)SABHARWAL, Ankush
3)JAIN, Saurabh

(57) Abstract :
This disclosure involves neighboring node discovery in a network. For instance, a neighboring node discovery method includes receiving, at a first node, a neighbor solicitation message. The neighbor solicitation message includes an indication that a second node is a low power device and a first scheduled response time. The method also includes transmitting at the scheduled response time, by the first node, a first neighbor advertisement message. The first neighbor advertisement message includes an indication of no availability in a neighbor cache of the first node and a second scheduled respond time. Further, the method includes removing one or more nodes from the neighbor cache, and receiving, at the first node at the second scheduled response time, a second neighbor solicitation message from the second node indicating availability in the neighbor cache. Additionally, the method includes linking the first node and the second node.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026091 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : METHOD FOR PRODUCING ORGANIC TELLURIUM COMPOUND AND METHOD FOR PRODUCING VINYL POLYMER

(51) International classification	:C08F0112080000, C07C0039100000, C08F0004720000, G03C0001730000, C07C0395000000
(31) Priority Document No	:2018-228214
(32) Priority Date	:05/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/045167 :19/11/2019
(87) International Publication No	:WO 2020/116144
(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)YAMAMOTO, Minoru

(57) Abstract :
Provided is a method for producing an organic tellurium compound, with which an organic tellurium compound can be produced at a high yield using metallic tellurium as a raw material, and in which the amount of by-products generated is low. This method for producing an organic tellurium compound includes a step (A) for reacting metallic tellurium with a compound represented by general formula (1) and a step (B) for reacting the compound obtained in step (A) with an organic halogen compound. The content of copper in the metallic tellurium is less than 100 ppm. Formula (1): M(R1)m [In formula (1), R1 denotes an alkyl group having 1-8 carbon atoms, an aryl group or an aromatic heterocyclic group. M denotes an alkali metal or an alkaline earth metal. The value of m is 1 when M is an alkali metal, and the value of m is 2 when M is an alkaline earth metal.]

No. of Pages : 55 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026097 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : WATER TREATMENT SYSTEM, CONTROLLER OF WATER TREATMENT SYSTEM AND WATER TREATMENT METHOD

(51) International classification	:C02F0001780000, C02F0001280000, C02F0001720000, B01D0053340000, B63B0013000000
(31) Priority Document No	:2018-231401
(32) Priority Date	:11/12/2018
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2019/048076 :09/12/2019
(87) International Publication No	:WO 2020/122012
(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)TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION
(72)**Name of Inventor :**
1)MURAYAMA, Seiichi
2)SHIMURA, Naohiko
3)MORITANI, Kanako
4)MAKISE, Ryutaro

(57) Abstract :
Provided are: a water treatment system that ensures, in an accelerated oxidation treatment with the use of ozone and an oxidation accelerator, a sufficient area for the accelerated oxidation treatment by using OH radical, even in a situation where dissolved ozone becomes almost zero due to the consumption of ozone by a reaction between ozone and the oxidation accelerator, to thereby enable the addition of an appropriate amount of ozone as well as the addition of the oxidation accelerator; a controller; and a water treatment method. The controller according to the embodiment, said controller being to be used in a water treatment system provided with a treatment tank, an oxidation accelerator injection part and an ozone injection part, comprises a water-under-treatment measurement part and a control part. The water-under-treatment measurement part measures a characteristic value of the water to be treated from the initiation of the contact with ozone until the completion of the contact. The control part controls the amount of an oxidation accelerator injected from the oxidation accelerator injection part and/or the amount of ozone injected from the ozone injection part depending on the result of the measurement by the water-under-treatment measurement part.

No. of Pages : 70 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026098 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTI-DEGREE OF FREEDOM ELEVATOR RIDE SYSTEM

(51) International classification	:A63G0031160000, A63G0007000000, G06F0003010000, A63B0021000000, A63B0023035000
(31) Priority Document No	:62/773005
(32) Priority Date	:29/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061996 :18/11/2019
(87) International Publication No	:WO 2020/112407
(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)UNIVERSAL CITY STUDIOS LLC
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(72)**Name of Inventor :**
1)BRISTER, Michael Keith
2)LEVY, Lisa Marie
3)TRESAUGUE, Michael Joseph

(57) Abstract :
A ride system (10) to control ride vehicle motion includes a carriage (24) that receives and secures a ride vehicle (20). The ride system (10) also includes a plurality of pulley systems (34) drivingly coupled to the carriage (24). Each pulley system of the plurality of pulley systems (34) include a pulley, a pulley cable (38) engaged with the pulley and attached to a portion of the carriage (24), and a motor (36) drivingly coupled to the pulley to drive pulley motion and pulley cable motion, and thereby cause the portion of the carriage (24) to displace in accordance with the pulley motion and the pulley cable motion.

No. of Pages : 29 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026100 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ROTARY VALVE

(51) International classification	:F02B0037180000, F16K0011085000, F01N0003200000, B01F0003040000, F16K0011076000
(31) Priority Document No	:1818505.8
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053191 :11/11/2019
(87) International Publication No	:WO 2020/099848
(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)WILLEY, Donald, E.
2)BROOKES, Matthew

(57) Abstract :
A rotary turbine bypass valve for an engine arrangement is disclosed. The rotary turbine bypass valve comprises a valve chamber and a valve rotor. The valve chamber is positioned at a junction of an inlet port, an outlet port and a bypass port. The inlet port is configured to fluidly communicate with a flow of exhaust gas from an engine, the outlet port is configured to fluidly communicate with an inlet of a turbine, and the bypass port is configured to fluidly communicate with an exhaust after treatment device. The valve rotor is supported for rotation, about a valve axis, within the valve chamber, the valve rotor comprising a first recess and a second recess, the first recess defining at least part of a primary flow passage, the second recess defining at least part of a secondary flow passage. The valve rotor is rotatable about the valve axis between a first position in which the valve rotor substantially blocks exhaust gas flow through the bypass port and a second position in which the valve rotor permits exhaust gas flow through the bypass port. The secondary flow passage is configured to selectively permit fluid communication between the inlet port and the bypass port when the primary flow passage is at least partially blocked.

No. of Pages : 36 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026111 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : CLEANING DEVICE COMPRISING VACUUM CLEANER AND DOCKING STATION

(51) International classification	:A47L0009280000, A47L0009100000, A47L0009160000, A47L0005360000, A47L0009000000
(31) Priority Document No	:10-2018-0162375
(32) Priority Date	:14/12/2018
(33) Name of priority country	:Republic of Korea
(86) International Application No Filing Date	:PCT/KR2019/017587 :12/12/2019
(87) International Publication No	:WO 2020/122631
(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)CHOI, In Gyu
3)KWON, Ki Hwan
4)KIM, Shin
5)KIM, Hyeon Cheol
6)LEE, Do Kyung
7)LEE, Hyun Ju
8)JANG, Yun Soo
9)CHA, Seung Ryong
10)HAN, Jung Gyun

(57) Abstract :
A cleaning device according to an idea of the present invention comprises: a vacuum cleaner including a dust collection container, into which a foreign material is collected; and a docking station connected to the dust collection container so as to remove the foreign material collected in the dust collection container, wherein the dust collection container is provided to collect a foreign material through centrifugal separation by rotation and to be docked in the docking station, and the docking station includes a suction device for suctioning the foreign material and the inside air in the dust collection container docked in the docking station.

No. of Pages : 94 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026113 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : INFORMATION PROCESSING METHOD, INFORMATION PROCESSING PROGRAM, INFORMATION PROCESSING DEVICE, AND INFORMATION PROCESSING SYSTEM

(51) International classification	:H04L0029120000, G06T0019000000, G06F0003034600, G06K0019060000, A61B0008080000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/JP2018/042157 :14/11/2018
(87) International Publication No	:WO 2020/100235
(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)TATE Kristopher Andrew

(57) Abstract :
This information processing method comprises: a step (S2) for generating a two-dimensional pattern associated with the network address of a first device (1); a step (S3) for causing a display unit of the first device (1) to display the two-dimensional pattern; a step (S5) for acquiring image data representing the two-dimensional pattern from a camera of a second device (2); and a step (S6) for identifying the network address of the first device (1) on the basis of the acquired image data.

No. of Pages : 22 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026117 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : NAVIGATION CONTROL METHOD AND RELEVANT PRODUCT

(51) International classification	:G01C0021340000, H04L0012709000, H04W0084120000, G06F0003048800, H04M0001600000
(31) Priority Document No	:201811457275.2
(32) Priority Date	:30/11/2018
(33) Name of priority country	:China
(86) International Application No Filing Date	:PCT/CN2019/110150 :09/10/2019
(87) International Publication No	:WO 2020/108100
(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)HUANG, Yuan

(57) Abstract :
Disclosed are a navigation control method and a relevant product, which are applied to an electronic device. The method comprises: when detecting a start request for a navigation application, an electronic device starting the navigation application, and detecting a vehicle-mounted hotspot; and then scanning and accessing the detected vehicle-mounted hotspot; enabling a smart link aggregation (SLA) function, and determining a first communication link of a cellular network accessed by the electronic device and a second communication link of the vehicle-mounted hotspot accessed by the electronic device; afterwards, controlling data transmission of the navigation application by means of the first communication link and the second communication link; and finally, planning a navigation route according to the data transmission of the navigation application, and navigating. The above-mentioned solution facilitates more accurate determination and selection of a suitable network communication link to perform data transmission, so that the quality and effect of the data transmission in a navigation control process are ensured, while the rate, stability and reliability of the data transmission in the navigation control process can be further improved.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026142 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANELLOSOMES FOR DELIVERING SECRETED THERAPEUTIC MODALITIES

(51) International classification	:C07K0014495000, A61K0039210000, A61K0031575000, C07H0019100000, A61K0008660000
(31) Priority Document No	:62/778866
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065919 :12/12/2019
(87) International Publication No	:WO 2020/123773
(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)KAHVEJIAN, Avak
3)DELAGRAVE, Simon
4)YOZWIAK, Nathan, Lawrence
5)LEBO, Kevin, James
6)DIAZ, Fernando, Martin
7)NAWANDAR, Dhananjay, Maniklal
8)TEDSTONE, Ryan, D.
9)PITTS, Jared, David

(57) Abstract :
This invention relates generally to anellosomes and compositions and uses thereof.

No. of Pages : 427 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026143 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANELLOSOMES FOR DELIVERING INTRACELLULAR THERAPEUTIC MODALITIES

(51) International classification	:A61K0031575000, A61K0031704000, C07H0019100000, A61K0031352000, A61K0039210000
(31) Priority Document No	:62/778866
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065874 :12/12/2019
(87) International Publication No	:WO 2020/123753
(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)DELAGRAVE, Simon
4)YOZWIAK, Nathan, Lawrence
5)LEBO, Kevin, James
6)DIAZ, Fernando, Martin
7)NAWANDAR, Dhananjay, Maniklal
8)TEDSTONE, Ryan, D.
9)PITTS, Jared, David

(57) Abstract :
This invention relates generally to anellosomes and compositions and uses thereof.

No. of Pages : 431 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026146 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : APPARATUS FOR SYNCHRONIZING AND/OR SWITCHING IN A TRANSMISSION HOUSING AND TRANSMISSION

(51) International classification	:F16D0023060000, F16H0063200000, F16H0048240000, B05B0011000000, F16K0001120000
(31) Priority Document No	:10 2019 100 978.2
(32) Priority Date	:16/01/2019
(33) Name of priority country	:Germany
(86) International Application No Filing Date	:PCT/DE2019/101108 :19/12/2019
(87) International Publication No	:WO 2020/147884
(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)HELMER, Sebastian
3)BERTHELEMY, Pierre-Yves
4)KRAUS, Georg

(57) Abstract :
The invention relates to an apparatus (10) for synchronizing and/or switching in a transmission housing (2), having a swivel actuation device (12), which is actuated in a swiveling manner and which interacts via an actuation geometry with an axially movable sliding collar (13) such that the swiveling actuation movement is converted into an axial synchronizing and/or switching movement of the sliding collar (13). In order to simplify the synchronizing and/or switching in a transmission housing (2), a guide sleeve (14) associated with the swivel actuation device (12) is connected to the transmission housing (2).

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026149 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : COMBINATION THERAPY FOR THE TREATMENT OF CANCER

(51) International classification	:A61K0031517000, A61K0045060000, A61K0047680000, C07K0016320000, A61K0031519000
(31) Priority Document No	:62/784084
(32) Priority Date	:21/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/068153 :20/12/2019
(87) International Publication No	:WO 2020/132633
(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)ROBICHAUX, Jacqulyne
3)NILSSON, Monique

(57) Abstract :
The present disclosure provides methods of treating cancer in a patient determined to have a HER2 mutation, such as an insertion mutation, by administering a third-generation tyrosine kinase inhibitor, such as poziotinib, in combination with a HER2 antibody-drug conjugate.

No. of Pages : 43 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026150 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : AEROSOL-GENERATING ARTICLE WITH VENTILATED HOLLOW SEGMENT

(51) International classification	:A24D0003040000, A24F0047000000, A24D0003100000, A24D0003020000, A24C0005470000
(31) Priority Document No	:18214929.4
(32) Priority Date	:20/12/2018
(33) Name of priority country	:EPO
(86) International Application No Filing Date	:PCT/EP2019/086801 :20/12/2019
(87) International Publication No	:WO 2020/128045
(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)UTHURRY, Jérôme

(57) Abstract :
An aerosol-generating article (10) for producing an inhalable aerosol when heated comprises: a rod of aerosol-generating substrate (12); a mouthpiece segment (18) comprising a plug of filtration material and arranged downstream of, and longitudinally aligned with, the rod (12); and a hollow tubular segment (16) between the rod (12) and the mouthpiece segment (18). The hollow tube segment (16) is longitudinally aligned with the rod (12) and the mouthpiece segment (18), and defines a cavity extending all the way to an upstream end of the mouthpiece segment (18). The article (10) further comprises a ventilation zone (26) at a location along the hollow tubular segment. An equivalent internal diameter of the hollow tubular segment (16) at the location of the ventilation zone (26) is at least about 5 millimetres. The rod (12) of aerosol-generating substrate comprises at least an aerosol former, the rod (12) having an aerosol former content of at least about 10 percent on a dry weight basis.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026167 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : A FLYWHEEL ARRANGEMENT

(51) International classification	:F16F0015300000, A63B0021220000, B01J0008000000, H02K0007020000, F16F0015315000
(31) Priority Document No	:1818393.9
(32) Priority Date	:12/11/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2019/053192 :11/11/2019
(87) International Publication No	:WO 2020/099849
(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)MURPHY, Gary

(57) Abstract :
A flywheel arrangement comprising a shaft with a flywheel fixedly connected thereto. The flywheel comprises at least one cavity and that cavity is at least partially filled with particulate matter.

No. of Pages : 18 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026174 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TOOL

(51) International classification	:E21B0017042000, B60C0011120000, A63B0060160000, A63B0060140000, A61B0017320900
(31) Priority Document No	:1819403.5
(32) Priority Date	:11/12/2018
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2019/084462 :10/12/2019
(87) International Publication No	:WO 2020/120490
(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)CLARK, Peter

(57) Abstract :
A tool comprising a handle and an implement. The handle comprises an elongate portion having a first end and a second end, and the implement, removably attachable to the handle, comprises an elongate portion at a first end and a tool portion at a second end. In an embodiment of the invention, the handle has, at the first end, a male portion comprising a reducing taper extending from the elongate portion and terminating in a shoulder, and a threaded portion extending from the shoulder and having a cross sectional area lesser than that of the shoulder. In the same embodiment, the implement has, at the first end, a female portion comprising a reducing taper extending inwardly from the first end, a shoulder portion extending from the taper, and a threaded portion extending further inward from the shoulder.

No. of Pages : 13 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026175 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : ANELLOSOMES FOR DELIVERING PROTEIN REPLACEMENT THERAPEUTIC MODALITIES

(51) International classification	:A61K0031445000, A61K0039210000, A61K0038480000, C07H0019100000, A61K0031352000
(31) Priority Document No	:62/778866
(32) Priority Date	:12/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/065963 :12/12/2019
(87) International Publication No	:WO 2020/123795
(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)LEBO, Kevin, James
6)DIAZ, Fernando, Martin
7)NAWANDAR, Dhananjay Maniklal
8)TEDSTONE, Ryan D.
9)PITTS, Jared David

(57) Abstract :
This invention relates generally to anellosomes and compositions and uses thereof.

No. of Pages : 424 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026180 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYSTEMS, METHODS, AND NON-TRANSITORY COMPUTER-READABLE MEDIA FOR SECURE INDIVIDUAL IDENTIFICATION

(51) International classification	:G06F0021620000, H04L0029080000, G06K0009000000, G16H0010200000, H04L0029060000
(31) Priority Document No	:62/779874
(32) Priority Date	:14/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/064125 :03/12/2019
(87) International Publication No	:WO 2020/123192
(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)NARAYANSWAMY, Raman
2)PRASZCZALEK, Przemek

(57) Abstract :
A privacy-enhancing system, method, and non-transitory computer-readable medium for securely identifying an individual over time without retaining sensitive biometric data. In one embodiment, the system includes a local identity server including an electronic processor, a communication interface, and a memory. The electronic processor is configured to initiate a personalization of a partner-specific identification vehicle that identifies the individual based at least in part on an individual global unique identifier associated with the individual, receive a request for a service from the individual via the communication interface, receive consent and registration information from the individual via the communication interface, generate an identity confirmation that confirms an identity of the individual, and output the identity confirmation via the communication interface. The individual global unique identifier is generated from information derived from the registration information and the individual global unique identifier is not indicative of personally identifiable information (PII) of the individual.

No. of Pages : 28 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026181 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : GAZE-DRIVEN RECORDING OF VIDEO

(51) International classification	:G06K0009000000, G06F0003010000, H04N0005232000, G06K0009620000, G06F0003048100
(31) Priority Document No	:62/779700
(32) Priority Date	:14/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/066267 :13/12/2019
(87) International Publication No	:WO 2020/123967
(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 :
Systems and methods for gaze-driven recording of video are described. Some implementations may include accessing gaze data captured using one or more gaze-tracking sensors; applying a temporal filter to the gaze data to obtain a smoothed gaze estimate; determining a region of interest based on the smoothed gaze estimate, wherein the region of interest identifies a subset of a field of view; accessing a frame of video; recording a portion of the frame associated with the region of interest as an enhanced frame of video, wherein the portion of the frame corresponds to a smaller field of view than the frame; and storing, transmitting, or displaying the enhanced frame of video.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026182 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : TRANSPARENT KEYCAPS

(51) International classification	:G06F0003020000, H01H0013830000, H01H0013705000, G06F0003023000, H01H0013880000
(31) Priority Document No	:62/784955
(32) Priority Date	:26/12/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/037276 :14/06/2019
(87) International Publication No	:WO 2020/139417
(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)JONES, Christopher D.
3)MATHEW, Dinesh C.
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5)MELCHER, Martin
6)ROGERS, Matthew S.
7)MATSUYUKI, Naoto
8)LANCASTER-LAROCQUE, Simon R.
9)TUANO, Avianne Marie B.

(57) Abstract :
Keycaps for keyboards that have transparent top portions have a set of layered components to define a top surface that provides key definition by curvature, texture, ridges, or other external structural features. Other portions of the keycaps define a glyph or support structure for the top layer. Features such as angle filters and partially reflective materials are implemented to improve the visibility, contrast, and reflectivity of the keycaps. Multiple methods are used to bend or otherwise modify rigid transparent materials such as glass in order to add surface features and to improve aesthetics of the keycaps of a keyboard.

No. of Pages : 29 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026183 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : SYNCHRONIZATION SIGNAL BLOCK BASED BEAM FAILURE DETECTION

(51) International classification	:H04L0005000000, H04B0007060000, H04W0056000000, H04L0012260000, H04L0012240000
(31) Priority Document No	:62/760276
(32) Priority Date	:13/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/060711 :11/11/2019
(87) International Publication No	:WO 2020/102072
(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)WANG, Guotong
2)LI, Hua
3)RAGHAVAN, Manasa
4)ZHANG, Yushu
5)CUI, Jie

(57) Abstract :
Systems, apparatuses, methods, and computer-readable media are provided for performing Beam Failure Detection (BFD), and in particular, for performing Synchronization Signal Block (SSB) based BFD and/or Channel State Information Reference Signal (CSI-RS) based BFD. Disclosed embodiments include quasi co-location (QCL) and use case restrictions for SSB for BFD and Physical Downlink Control Channel (PDCCH), transition period handling for BFD, and implicit configuration SSB for BFD. Other embodiments may be described and/or claimed.

No. of Pages : 46 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/06/2021

(21) Application No.202117026184 A
(43) Publication Date : 19/11/2021

(54) Title of the invention : MULTIMERIC HYBRID FC PROTEINS FOR REPLACEMENT OF IVIG

(51) International classification	:C07K0016060000, C07K0016000000, C07K0016460000, C07K0016120000, C07K0016280000
(31) Priority Document No	:62/767303
(32) Priority Date	:14/11/2018
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2019/061020 :12/11/2019
(87) International Publication No	:WO 2020/102251
(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)TSO, J Yun

(57) Abstract :
The hybrid Fc proteins of this invention include IgG and IgM Fc components. The IgG Fc component includes at least a portion of a hinge region and CH2 and CHS regions. The IgM component includes Cμ3 and Cμ4 regions of a Cμ constant region. The hybrid Fc proteins can form duplexes by interchain disulfide bonding between cysteines in their hinge regions. The hybrid Fc proteins can be used for treating immune disorders mediated by endogenous IgG, such as those previously treated with intravenous immunoglobulin.

No. of Pages : 42 No. of Claims : 28

CONTINUED TO PART- 2