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PERBADANAN HARTA INTELEK MALAYSIA
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GENERAL INFORMATION

1. In accordance with subsection 31 (3) of the Patents Act 1983, the following patents have been granted.
2. In accordance with subsection 35(3) of the Patents Act 1983, the following patents are lapsed.
3. In accordance with subsection 35(A)(3) of the Patents Act 1983, the following patents are reinstated.
4. In accordance with subsection 57(2) of the Patents Act 1983, the following patents are invalid.
5. In accordance with section 54(3) of the Patents Act 1983, the following patents are surrendered.
6. In accordance with regulation 34(5) of the Patents Regulations 1986, the following patents have changed their ownership.
7. In accordance with section 54(3) of the Patents Act 1983, the following compulsory licences are surrendered.
8. In accordance with section 34(1) of the Patents Act 1983, the registrar shall make available for public inspection after 18 months from the priority date or filing date of a patent application.

1. General information and Notices
2. 18 Month Publication

18 MONTH PUBLICATION**(12) MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2021006858

(22) **Filing Date** : 18 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Data Terkawal Sdn. Bhd.

(72) **Inventor(s)** : Prabu A/L Sundaramoorthy

(74) **Agent** :

(54) **Title** : Outward Remittance Control System (Orcs)

(57) **Abstract** : The Outward Remittance industry is worth an annual RM40.6 Billion (2018) but it lacks an ORCS to manage and control all its problems, abuses and inadequacies pertaining to this increasingly huge industry. The ORCS comprises of a unique (only one of its kind) and original software specifically developed to collect all daily data of each and every foreign exchange remittance transaction conducted by each and every Outward Remittance Agent (ORA) from all 300 authorized ORA throughout Malaysia. The data entered into by the ORA is instantaneously transmitted by the secured encryption which safeguards all the data. Data from all the ORA in Malaysia is transmitted to all the relevant State Centres, Regional Centres and the Head Quarters. Any information on the ORA remittance transactions can then only be retrieved and extracted at each level of the Control Centres at State, Regional and Head Quarters with the strictest authorized access only. Any suspicious outward remittance transaction will be spotted and identified using Artificial intelligence (AI) analysis. Immediately an Alert will be issued to the supervisory and enforcement officers to investigate and take prompt action without delay. Thus, the ORCS when installed at each and every ORA in the country will ensure an orderly, well regulated and fraudfree ORA industry in Malaysia. The exploitation, money laundering and other Illegal offences associated with the ORA industry will be substantially eradicated.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006876

(22) **Filing Date** : 18 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Brightstar Oils Sdn. Bhd.

(72) **Inventor(s)** : Pu Meng Jin ; Ooi Phay See ; Mohamad Ali Bin Ahmad ; Hanafiah Zainal Abidin

(74) **Agent** : Chee Jenn Yang C/O Nbs Intellectual Sdn. Bhd.

(54) **Title** : Method For Producing Polyisobutenyl Succinimide At Pilot-Plant Scale With Improved Properties

(57) **Abstract** : The present invention relates to a method for producing polyalkylene succinimides for use as dispersants in lubricating oils for internal combustion engines at pilot-plant scale, comprising steps of reacting a high-reactive polyalkene having a number average molecular weight ranging from 850 to 2,400 and having a terminal vinylidene groups content of 70% - 85%, with an enophyl selected from maleic anhydride or maleic acid at a temperature higher than 180 degree Celcius, carrying out the reaction thermally for a time sufficient for having a conversion of the terminal vinylidene groups of 65% or higher, and reacting the reaction product, which is polyalkylene succinic anhydride, with an amine which has at least one primary aminic group capable of forming an imide group, characterized in that, the polyalkylene succinimides produced at pilot-plant scale using this method have higher functionalization degree.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006897

(22) **Filing Date** : 19 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Petroliam Nasional Berhad (Petronas)

(72) **Inventor(s)** : Suzalina Zainal ; Norzafirah Razali ; Mohamad Azmeer Rodzali ; Ali Samer Muhsan ; Diab Fathelrhman Hasbelrasol Mohamed

(74) **Agent** : Geetha Kandiah C/O Kass International Sdn. Bhd.

(54) **Title** : Pre-Flush Chemical For Scale Inhibitor Squeeze Treatment

(57) **Abstract** : A pre-flush chemical for scale inhibitor squeeze treatment and method of preparing the pre-flush chemical, wherein the pre-flush chemical comprising carbon compound, wherein the carbon compound is used in an amount ranging between 0.01% to 0.1% by weight of the pre-flush chemical, surfactant, wherein the surfactant is used in an amount ranging between 0.005% to 0.05% by weight of the pre-flush chemical and solvent, wherein the solvent is used in an amount to achieve 100% of total weight of the pre-flush chemical.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006902

(22) **Filing Date** : 19 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Atd Innogreen Technology Sdn Bhd

(72) **Inventor(s)** : Abdul Talib Bin Din

(74) **Agent** : Norunnuha Binti Datuk Hj. Nawawi C/O Norunnuha Sdn Bhd.

(54) **Title** : An Oil Palm Harvesting Robotic Arm

(57) **Abstract** : AN OIL PALM HARVESTING ROBOTIC ARM ABSTRACT The present invention relates to an oil palm harvesting robotic arm comprising: a chassis (10); characterized in that a rotary base (100); an operator controlling pod (150); a pair of adjustable stabilizer beam (300) with stabilizer hydraulic cylinder (301) and hydraulic stand (303); an arm primary segment (500) on top of the rotary base (100); an arm secondary segment (700) hinging the arm primary segment (500); a rotatable gripper claw unit (1100) attached to the arm secondary segment (700) via a 10 rotary arm (1500) and a rotary joint geared hydraulic motor (900); and a trailer (1000). The above provision is advantageous as the deployment of the rotary arms provides flexibility to harvest any FFB that located at whatever position within its reach, avoiding the robot to move from one point to another every time it needs to harvest the FFB thus saving significant time and increasing the productivity. Most illustrative figure is Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006904

(22) **Filing Date** : 19 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Petroliam Nasional Berhad (Petronas)

(72) **Inventor(s)** : Zeze Hasri Bin Hashim ; Faryanti Binti Zalani ; Yap Eng Hoe ; Manisha Prasad ; Letchumi Sabapathy ; Sathish Kumar Kuttiyappan

(74) **Agent** : Christopher Paul Hemingway C/O Marks & Clerk (Malaysia) Sdn. Bhd.

(54) **Title** : Methods And Systems For Estimating Fuel Consumption Of A Vessel

(57) **Abstract** : Methods and systems for estimating fuel consumption of a vessel are disclosed. A method of estimating fuel consumption of a vessel comprises: receiving vessel report data comprising logged activity data indicating a plurality of logged activities for the vessel over a time period and a time associated with each logged activity; receiving vessel tracking data corresponding to the time period, the vessel tracking data comprising vessel location data, vessel speed data and timestamp data; matching timestamp data from the vessel tracking data with times associated with the logged activities and thereby generating matched activity data comprising vessel location data and vessel speed data associated with each logged activity; processing the matched activity data to generate adjusted activity data using, for each logged activity, the vessel location data and / or the vessel speed data associated that logged activity; and calculating an estimated fuel consumption of the vessel over the time period using the adjusted activity data.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006906

(22) **Filing Date** : 19 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Petroliam Nasional Berhad (Petronas)

(72) **Inventor(s)** : Oliver Michael Linder-Patton ; Christopher James Sumbly ; Christian James Doonan ; Akbar Abu Seman ; Nor Hafizah Yasin ; Nor Hafizah Berahim @ Jusoh ; Chan Zhe Phak

(74) **Agent** : Christopher Paul Hemingway C/O Marks & Clerk (Malaysia) Sdn. Bhd.

(54) **Title** : Method For Producing Catalyst

(57) **Abstract** : A method for producing a catalyst comprising the steps of mixing a metal precursor with an organic ligand and a solvent to form a precursor solution; heating the precursor solution at a predetermined temperature and time to form a metal organic framework; and washing and drying the metal organic framework; wherein a solution containing zinc and copper ions is added to the metal organic framework by incipient wetness impregnation, whereby the resulting loaded support is dried and then calcined to form the catalyst.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2021006907

(22) **Filing Date** : 19 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Petronas Research Sdn Bhd

(72) **Inventor(s)** : Izleena Bt M Iqbar ; Fauzy Omar Basheer B Osman

(74) **Agent** : Christopher Paul Hemingway C/O Marks & Clerk (Malaysia) Sdn. Bhd.

(54) **Title** : An Improved Offshore Wind Turbine

(57) **Abstract** : An offshore wind turbine structure comprising: a rotor nacelle assembly comprising a three-blade horizontal axis turbine supported by a tower; a tension leg platform arranged to support the tower and rotor nacelle assembly; a control system arranged to control pitch and yaw of said blades as a function of electricity loss.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006930

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Tun Hussein Onn Malaysia

(72) **Inventor(s)** : Ali Tighnavard Balasbaneh ; David Yeoh Eng Chuan

(74) **Agent** : Yip Jiun Hann C/O Trademark2u Sdn Bhd

(54) **Title** : Timber-Concrete Composite Slab

(57) **Abstract** : The present invention relates to a timber-concrete composite slab comprising of: a top planar layer (1) having a cast in-situ geopolymer concrete planar; characterised in that:- a base (2a) having a plurality layers of glued laminated timbers (GLT) (2) with a plurality of trapezoidal notches (4); a layer of wire mesh (3) embedded in between the top planar layer (1) and the base (2a); wherein the trapezoidal notches of the base (2a) filled with the geopolymer concrete mix during in-situ casting means; and a plurality of fastening means mounted longitudinally on the trapezoidal notches (4) for fastening the top planar with the base (2a). Drawing accompanying abstract: Fig. 1.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006931

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : P2 Biotech Sdn. Bhd.

(72) **Inventor(s)** : Nordin Bin Abd Kadir Bakti

(74) **Agent** : Imaduddin Bin Dato Haji Mohamed Suhaimi C/O Imaduddin & Lew Chambers

(54) **Title** : Process For The Stimulation And Extraction Of Natural Rubber Field Latex

(57) **Abstract** : The present invention relates to a process for stimulating and extracting natural rubber field latex, described process comprises i) boring a first hole for ethylene gas penetration into an outer corky layer of a bark of a rubber tree using a drill until an underlying tissue of said rubber tree is exposed, ii) attaching a first cup over said first blind hole for ethylene gas penetration, wherein a mouth of said first cup completely covers said first blind hole, and wherein said first cup is connected to a first closed container, wherein said first cup is attached into the bark, iii) performing ethylene stimulation by reacting ethephon with an alkaline solution within said first closed container thereby generating ethylene gas and allowing said ethylene gas to flow to said first blind hole covered by said first cup, iv) boring a second blind hole for field latex collection into said rubber tree bark with drill until latex flow is observed without injuring the cambium of the rubber tree, wherein said boring said second blind hole is carried out after performing ethylene stimulation, v) attaching a second cup over said second blind hole, wherein said second cup is attached into the bark to secure latex flowing from said second blind hole, and vi) collecting latex flowing out from said second blind hole by allowing latex to flow into a second closed container connected to said second cup.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006932

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Tang Chee Yang

(72) **Inventor(s)** : Tang Chee Yang

(74) **Agent** :

(54) **Title** : An Autonomized And Decentralised Control Process Optimization For Swarm Of Automation

(57) **Abstract** : The present invention generally relates, but not limiting to the system of components, devices or processes for controlling a large plurality of electromechanical devices or automation in real physical world, either mobile or stationary, that are furnished with autonomy and governed by virtual machine intelligence. The present invention further relates to the decentralized command and control among devices or automation that are governed by the tactics and maneuvers of machine intelligence entity operating within the multi-dimensional virtual simulations, with or without the supervision of human operators. The present invention further relates to the resiliency of the decentralized machine intelligence control system that can be provided by a plurality of assigned roles onto a plurality of automation devices supported by modules of appropriate hardware and software. The groups of components, device or processes of the present invention can be categorized into, but not limiting to Mission Priming, Autonomous Control, Cognitive Response and Convergence Hub. The invention is generally applicable for interactive metaverse, larger industrial or city scale deployment of Internet of Things (IoT), machine learning based field equipment in smart city or smart factory, robotic search and rescue operation, and unmanned long-distance swarm of aviation vehicles (UAV) or oceanic vessels operating in a demanding and hostile environment, in which human presence is unavailable or remote human control cannot be executed in a timely manner.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006937

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Samurai 2k Aerosol Sdn Bhd

(72) **Inventor(s)** : Ong Yoke En

(74) **Agent** : Patrick Mirandah C/O Mirandah Asia (Malaysia) Sdn. Bhd.

(54) **Title** : Spray Can, Pressure Compensation Can And Spray Device

(57) **Abstract** : The present disclosure relates to a spray can, a pressure compensation can and a spray device. The spray can and the pressure compensation can are provided with a first connection structure and a second connection structure, respectively. When the first connection structure and the second connection structure can be in detachable connection, the spray can and the pressure compensation can can be forced to be in connection, and a release valve of the pressure compensation can and a receiving valve of the spray can are forced to open and in communication with each other, such that the pressure compensation can can add a stored propellant into the spray can, thereby ensuring that the pressure compensation can can continuously perform pressure compensation and air inflation for the spray can when the spray can is used, reducing a risk that the spray can cannot perform spraying and performs pressure-deficit spraying, thus effectively improving the spraying efficiency and spraying effect of the spray can when in use. In addition, a storage can of the spray can uses a split and detachable structure, such that a user being able to repeatedly add a main agent into the storage can is ensured. On this basis, the user can also repeatedly add a stored propellant into the spray can by means of the pressure compensation can, and the spray can is thus reusable.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006938

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Samurai 2k Aerosol Sdn Bhd

(72) **Inventor(s)** : Ong Yoke En

(74) **Agent** : Patrick Mirandah C/O Mirandah Asia (Malaysia) Sdn. Bhd.

(54) **Title** : Cap Assembly For Feeding Container And Feeding Container

(57) **Abstract** : The present disclosure relates to a cap assembly for a feeding container and a feeding container. The cap assembly includes: a feeding cap, which is capable of being mounted on an open container of the feeding container and has an annular groove; and a measuring cap, which has a scale for measuring a volume of a given material. An open end of the measuring cap is capable of entering the annular groove of the feeding cap when the measuring cap is mounted and snapped on the feeding cap. The cap assembly solves the problem that the open end of the measuring cap is easily polluted by harmful substances such as dust and bacteria, thereby avoiding a circumstance that the harmful substances pollute the given material when the measuring cap is used.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006939

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Samurai 2k Aerosol Sdn Bhd

(72) **Inventor(s)** : Ong Yoke En

(74) **Agent** : Patrick Mirandah C/O Mirandah Asia (Malaysia) Sdn. Bhd.

(54) **Title** : Paint Storage Tank

(57) **Abstract** : Related to is a paint storage tank. The paint storage tank includes a tank body and a stirring rod that is detachably attached to an outer circumferential wall of the tank body. The paint storage tank can effectively reduce the risk of easily losing the stirring rod, and has more functions, such as a smoothing thickness-limiting function.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006941

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Samurai 2k Aerosol Sdn Bhd

(72) **Inventor(s)** : Ong Yoke En

(74) **Agent** : Patrick Mirandah C/O Mirandah Asia (Malaysia) Sdn. Bhd.

(54) **Title** : Connector Unit For Connecting Spray Can To Pressure Compensation Can And Spray Device

(57) **Abstract** : The present disclosure relates to a connector unit for connecting a spray can to a pressure compensation can, and a spray device. The connector unit comprises a connector component, the connector component comprising a first end portion for connecting to the bottom of the spray can and a second end portion for connecting to the top of the pressure compensation can. The connector unit can open and communicate an air receiving valve of the spray can and a release valve of the pressure compensation can when the connector component is connected to the spray can and the pressure compensation can. The connector unit can connect the spray can to the pressure compensation can, and ensures that the pressure compensation can can continuously perform pressure compensation and air inflation for the spray can when the spray can is used, such that the spraying efficiency and spraying effect of the spray can when in use are improved.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006942

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Samurai 2k Aerosol Sdn Bhd

(72) **Inventor(s)** : Ong Yoke En

(74) **Agent** : Patrick Mirandah C/O Mirandah Asia (Malaysia) Sdn. Bhd.

(54) **Title** : Press-Type Releaser For Spray Can And Spray Can

(57) **Abstract** : The present disclosure relates to a press-type releaser for a spray can, and a spray can, the press-type releaser comprising: a pressing cap, which can be mounted on a valve of a spray can and is provided with a flow guide channel and a lateral recess in communication with the flow guide channel; a connector pipe, which is partially mounted in the lateral recess of the pressing cap and is in ball-and-socket hinge connection with the pressing cap; and a nozzle, which is arranged on the connector pipe and is provided with a spray hole, wherein the hole of the nozzle, an inner cavity of the connector pipe, the flow guide channel of the pressing cap and an outlet of the valve are in communication in sequence. The press-type releaser can increase the use flexibility and applicable scenes of a spray can, and can also ensure that the spray can can perform multidirectional spraying into a narrow space.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006943

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Samurai 2k Aerosol Sdn Bhd

(72) **Inventor(s)** : Ong Yoke En

(74) **Agent** : Patrick Mirandah C/O Mirandah Asia (Malaysia) Sdn. Bhd.

(54) **Title** : Cover Assembly For Spray Can And Spray Can

(57) **Abstract** : The present disclosure relates to a cover assembly for a spray can and the spray can. The cover assembly includes: an outer cover; a piston cover, capable of being mounted into the outer cover in a push-pull mode; and an insert tube, fixedly arranged on the top of the outer cover and communicating with an inner cavity of the outer cover. When the bottom end of the outer cover is buckled on the top of the can assembly of the spray can, the piston cover may fully enter the outer cover and shield a spray cap of the spray can; and when the top end of the outer cover is buckled on the top of the can assembly of the spray can, the inset tube may be inserted into the top so that the piston cover may sequentially push contents previously loaded into a place between the piston cover and the outer cover into the insert tube and the can assembly of the spray can after being pushed. The cover assembly is more functional and helps to improve user's satisfaction when using the spray can.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006949

(22) **Filing Date** : 23 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Teknologi Malaysia (Utm)

Inventor(s) : Mohd Hafiz Dzarfan Bin Othman ; Siti Khadijah Binti Hubadillah ; Mohammad Arif Budiman
(72) Bin Pauan ; Juhana Binti Jaafar ; Mukhlis Bin A Rahman ; Ahmad Fauzi Bin Ismail ; Mohd Hafiz Bin Puteh

(74) **Agent** : Muhammad Hazif Azlan Bin Ziaudin Ahamed C/O Teraju Ip Sdn Bhd

(54) **Title** : Robust Kaolin Mixed Zirconia Hollow Fibre Membrane For Removal Ammonia In Water

(57) **Abstract** : THE PRESENT INVENTION RELATES TO A CERAMIC HOLLOW FIBRE MEMBRANE FOR REMOVAL AMMONIA IN WATER. THE CERAMIC HOLLOW FIBRE MEMBRANE COMPRISING: (A) HYDRATED ALUMINUM SILICATE (KAOLIN) AND ZIRCONIUM (IV) OXIDE (ZRO2) AS CERAMIC MATERIALS; (B) N-METHYL-2-PYRROLIDONE (NMP) AS SOLVENT WHEREIN, THE N-METHYL-2-PYRROLIDONE (NMP) IS PRESENT IN AN AMOUNT OF 54%; (C) POLYETHERSULFONE (PESF) AS POLYMER BINDER WHEREIN, THE POLYETHERSULFONE (PESF) IS PRESENT IN AN AMOUNT OF 5%; (D) POLYETHYLENEGLYCOL-30 DIPOLYHYDROXYSTEARATE (ARLACEL) AS DISPERSANT WHEREIN, THE POLYETHYLENEGLYCOL-30 DIPOLYHYDROXYSTEARATE (ARLACEL) IS PRESENT IN AN AMOUNT OF 1%. HEREIN, THE HYDRATED ALUMINUM SILICATE (KAOLIN) IS PREFERABLY PRESENT IN AN AMOUNT OF 30% TO 35% BY WEIGHT RELATIVE TO TOTAL WEIGHT OF SAID CERAMIC HOLLOW FIBRE MEMBRANE AND THE ZIRCONIUM (IV) OXIDE (ZRO2) IS PREFERABLY PRESENT IN AN AMOUNT OF 10% TO 5% BY WEIGHT RELATIVE TO TOTAL WEIGHT OF SAID CERAMIC HOLLOW FIBRE MEMBRANE. THE WEIGHT RATIO IN THE CERAMIC HOLLOW FIBRE MEMBRANE OF THE TOTAL AMOUNT OF THE HYDRATED ALUMINUM SILICATE (KAOLIN) TO THE TOTAL AMOUNT OF THE ZIRCONIUM (IV) OXIDE (ZRO2) IS RANGING FROM 30% TO 35% TO 10% TO 5%, WITH THE PROVISIO THAT THE TOTAL AMOUNT OF THE HYDRATED ALUMINUM SILICATE (KAOLIN) AND THE ZIRCONIUM (IV) OXIDE (ZRO2) IS 40% BY WEIGHT.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006966

(22) **Filing Date** : 23 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Ucsi Education Sdn. Bhd.

(72) **Inventor(s)** : Lai Jiong Soon ; Tan Chung Keat ; Cheah Shiau Chuen

(74) **Agent** : Mohana Murali A/L Kodivel C/O Adastra Intellectual Property Sdn. Bhd.

(54) **Title** : Method For Development Of Self-Monitoring Urinary Sodium Test Strip

(57) **Abstract** : Accordingly, embodiments herein disclose a method for development of self-monitoring urinary sodium test strip comprising the steps of: preparing a reagent test strip by attaching paper discs in duplicate onto an adhesive tape strip, which is attached onto a carrier strip made from modelling paper; preparing reagents of 2 U/mL β -galactosidase and 1 mM chlorophenol red- β -D-galactopyranoside mixed with 0.1 M EDTA. The prepared reagent strip is tested on 0-0.25M of sodium solutions. Colour formation can be distinguished when tested at 0M (chartreuse yellow), 0.05M (sunflower), 0.1-0.15 M (mango tango), and 0.2-0.25M (persimmon) sodium solutions within 25 minutes of testing. Further comprising the steps of evaluating the effectiveness of β -galactosidase and chlorophenol red- β -D-galactopyranoside in the enzymatic semiquantification of sodium ions in urine samples, after preparing the reagent test strip. The performance of the developed strip is validated against sensitivity, stability, selectivity, and accuracy and precision.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006967

(22) **Filing Date** : 23 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Forest Research Institute Malaysia (Frim)

(72) **Inventor(s)** : Nur Areisman Bin Mohd Salleh ; Rushdan Bin Ibrahim ; Latifah Binti Jasmani ; Sharmiza Binti Adnan

(74) **Agent** : Ngan Yuet Kim C/O Abasan Sdn. Bhd.

(54) **Title** : A Biodegradable Facemask And Method Of Fabricating Thereof

(57) **Abstract** : The present invention relates to a biodegradable facemask (100) with multi-functional layers and the method for fabricating the same. The biodegradable facemask (100) comprises an outer layer (110), a middle layer (120), and an inner layer (130). Accordingly, the outer layer (110) and the inner layer (130) are composed of similar filtration materials comprising 80% kenaf fiber and 20% nanofibrillated cellulose (NFC), and the middle layer (120) is made from a composition comprising a biodegradable polymer and an antibacterial at a ratio of 3:2. The outer layer (110) is added with a sizing agent with antimicrobial polymer to improve wettability and antimicrobial properties of the outer layer (110), and the inner layer (130) is also added with antimicrobial polymer. The method (200) for fabricating the biodegradable facemask (100) includes the steps of preparing an outer layer (210); preparing a middle layer (220), preparing an inner layer (230); and layering (240) the outer layer (110) together with the middle layer (120) and the inner layer (130) to form a single biodegradable facemask (100). Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006982

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Top Glove International Sdn Bhd

(72) **Inventor(s)** : Phang Chee Kin ; Terng Shiue She ; Yee Wei Yin ; Ng Yong Lin

(74) **Agent** : Lok Choon Hong

(54) **Title** : A Method For Recycling Compounded Latex

(57) **Abstract** : The invention relates to a method for recycling a compounded latex from a first article manufacturing tank having the compounded latex and sediment. The method comprises the steps of extracting a first portion of the compounded latex that is without sediment from the first article manufacturing tank to leave over a second portion of the compounded latex having sediment; dispersing the sediment in the second portion of the compounded latex to produce a compounded latex suspension; and dewatering the compounded latex suspension to obtain a recycled compounded latex and a solid rubber, wherein the compounded latex is not subjected to a pretreatment with a coagulant or a flocculating agent. (No illustrative drawing)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006985

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Top Glove International Sdn. Bhd.

(72) **Inventor(s)** : Ng Kei Hoa ; Ng Yong Lin ; Kow Su Huan ; Lau Pei Ying ; Low Ting Peng

(74) **Agent** : Geetha Kandiah C/O Kass International Sdn. Bhd.

(54) **Title** : Glove

(57) **Abstract** : A latex formulation comprises blend of base polymers, wherein the blend of base polymers comprises (i) carboxylated acrylonitrile butadiene rubber latex having acrylonitrile content ranging between 25% to 35% by weight; and (ii) carboxylated acrylonitrile butadiene rubber latex having acrylonitrile content of more than 35% by weight. The carboxylated acrylonitrile butadiene rubber latex having acrylonitrile content ranging between 25% to 35% by weight is used in an amount ranging between 55.00 phr to 95.00 phr and the carboxylated acrylonitrile butadiene rubber latex having acrylonitrile content of more than 35% by weight is used in an amount ranging between 5.00 phr to 45.00 phr. A glove is prepared from the latex formulation as described above.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006986

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Top Glove International Sdn Bhd

(72) **Inventor(s)** : Mok Chun Fah ; Tung Cian Ying ; Ong Chia Yee ; Ng Yong Lin ; Han Fon Yee

(74) **Agent** : Lok Choon Hong

(54) **Title** : A Method For Producing A Polyisoprene Latex

(57) **Abstract** : The present invention relates to a method for producing a synthetic latex having an instability index in the range of 0.2 to 0.9 comprising the steps of dissolving solid polyisoprene rubber in an organic solvent to obtain a polymer solution; emulsifying the polymer solution in two stages whereby the first emulsification stage is performed by mixing the polymer solution with a surfactant mixture comprising anionic surfactants and non-ionic surfactant in the presence of water to obtain an emulsion of polyisoprene whereas the second emulsification stage is performed by subjecting the emulsion of polyisoprene to a pressurized condition, followed by removing the organic solvent from the homogenized emulsion of polyisoprene to obtain a homogenized emulsion of polyisoprene having a particle size in the range of 0.1 μm to 3.0 μm , concentrating the homogenized emulsion of polyisoprene to obtain a concentrated polyisoprene latex and stabilizing the polyisoprene latex by adding a mixture of additives to obtain a final polyisoprene latex. The present invention also relates to a synthetic latex produced from the method aforementioned. (The most illustrative figure: No figure)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021006992

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Kebangsaan Malaysia

(72) **Inventor(s)** : Mohd Ambri Mohamed ; Masuri Othman ; Mohd Hanafi Ani ; Syed Noh Syed Abu Bakar

(74) **Agent** : Tee Lin Yik C/O Tee Ip Sdn Bhd

(54) **Title** : A Method Of Producing A Single-Layer Graphene Via Chemical Vapor Deposition

(57) **Abstract** : ABSTRACT A METHOD OF PRODUCING A SINGLE-LAYER GRAPHENE VIA CHEMICAL VAPOR DEPOSITION The present invention discloses a method (100) of producing a single-layer graphene via chemical vapor deposition, characterized by the steps of placing a substrate in a heating chamber with the substrate at a tilting angle of 8° to 25° and supplying carrier gases to the tilted substrate under an atmospheric pressure for graphene deposition. The most illustrative figure: Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007001

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Cortex Robotics Sdn Bhd

(72) **Inventor(s)** : Vincent Leong Wai Shun

(74) **Agent** : Wong Jan Ping C/O Intellect Worldwide Sdn. Bhd.

(54) **Title** : A Method Of Index Synchronization During Manufacturing Of Gloves Or Condoms

(57) **Abstract** : The present invention relates to a method of index synchronization during manufacturing of gloves and condoms, wherein index information of the gloves/condoms are collected by at least one first triggering module and at least one any suitable indicator (115a, 115b) is being placed on suitable locations on the conveyor (109) of gloves/condoms manufacturing system (111), to be detected by at least one second triggering module (113), such that when said indicator (115a, 115b) is detected, the indexing of the gloves and condoms (107) will be reset, allowing indexing of gloves and condoms to be grouped in batches for narrowing down of possible errors in inspection.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007002

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : YiHsuan, Lee

(72) **Inventor(s)** : YiHsuan, Lee ; YuSheng, Su

(74) **Agent** : Mohana Murali A/L Kodivel C/O Adastra Intellectual Property Sdn. Bhd.

(54) **Title** : Shopping Platform Profit Sharing System

(57) **Abstract** : A shopping platform profit sharing system includes a user end and a server. The user end and the server are connected with each other by Internet. The server includes a database and a transaction management module. The database includes product information, member information and a link sharing generation unit. The transaction management module includes an identity verification unit, a link sharing confirmation unit, a shopping bonus calculation unit, and a rebate calculation unit. When the user end places an order to purchase a product by the transaction management module, the order is processed through the identity verification unit, the link sharing confirmation unit, the shopping bonus calculation unit and the rebate calculation unit to achieve a fair and reasonable shopping profit sharing feature.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007020

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Ong Eng Huat

(72) **Inventor(s)** : Ong Eng Huat

(74) **Agent** : Mohana Murali A/L Kodivel C/O Adastra Intellectual Property Sdn. Bhd.

(54) **Title** : Systems And Methods For Virtual Environments

(57) **Abstract** : Systems and methods for virtual environment are provided. In an embodiment of the invention, a system and a method involve a first device having an industry interaction module; a second device having a user interaction module; an actual virtual location or space, or a three-dimensional (3D) virtual gallery or showroom, which is viewed through 360° virtual navigation or realtime navigation; a server or a device application which interconnects the plurality of modules including the industry interaction module, the user interaction module, a digital module, a products module, an experiential module, a communication module, a transaction module, a reviewing module, and a delivery module.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007032

(22) **Filing Date** : 25 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Putra Malaysia

(72) **Inventor(s)** : Saiful Hasley Ramli ; Zulida Rejali ; Raja Ahmad Azmeer R.A. Effendi ; Mohd Shahrizal Dolah

(74) **Agent** : Jasdeep Singh A/L Arjan Singh C/O Ip Sense Sdn. Bhd.

(54) **Title** : Gynecological Mannequin

(57) **Abstract** : The present invention discloses a gynecological mannequin (100) for training, teaching or simulating gynecological procedures comprising a torso (110) simulating a lower torso of a female. The torso comprising a hollow body (120) defining a cavity (122) for receiving a pelvic simulator (180) and replicas of internal organs, an abdomen skin portion (140) wherein the abdomen skin portion comprises a flexible resilient material to imitate human skin and a vagina module (160) comprising a vagina opening (162), a vagina wall (164) and a cervix (166), the vagina module comprising a flexible resilient material imitating human vagina. Fig. 2

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007033

(22) **Filing Date** : 25 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Putra Malaysia

(72) **Inventor(s)** : Yusran Sulaiman ; Muhammad Norhaffis Mustaffa ; Nur Hawa Nabilah Azman

(74) **Agent** : Jasdeep Singh A/L Arjan Singh C/O Ip Sense Sdn. Bhd.

(54) **Title** : Asymmetric Supercapacitor Electrode And Method Of Manufacture Thereof

(57) **Abstract** : The present invention provides an electrode (30a) for an asymmetric supercapacitor (100). The active material of the electrode (30a) comprises carbon nano-fibers (CNF) for providing a high surface area and high electrical conductivity to the electrode; metal-organic frameworks (MOF) comprising metal ions and organic ligands configured to provide a crystalline porous material to further effectively increase the surface area and pseudocapacitance of the electrode (30a); and a layered double hydroxide (LDH) represented by the general formula $[M_{z+1-x}M'_y+x(OH)_2]_a^+(A^{n-})_{a/n} \cdot bH_2O$, where " M " and " M' " are different and each is respectively a charged metal cation of charge 'z+' and 'y+' respectively, in which z=1 or 2, and y= 3 or 4, " A " is an anion of charge 'n-' in which 'n' is an integer not less than 1, 'x' represents a value of more than 0 but less than 1, 'a' is equal to z(1-x)+xy-2, and 'b' is an integer ranging between 0 to 10. The layered double hydroxide (LDH) is configured to increase the pseudo-capacitance of the electrode (30a). Also provided is an asymmetric supercapacitor (100) comprising the electrode (30a) and a method of manufacturing the electrode (30a). Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007060

(22) **Filing Date** : 25 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Mohd Hafizi Bin Zohari ; Nur Ainaa Adhreena Binti Muhamad Shukri

(74) **Agent** :

(54) **Title** : A Gap Monitoring Device For Two Connected Flanges

(57) **Abstract** : The present invention relates generally to a gap monitoring device, more particularly to a gap monitoring device for two connected flanges. In the current state of the art, this device directly measures gap openings between two connected flanges to indicate the possibility of leak or any other damage that might occur at the flanges. According to the present invention, there is a gap monitoring device (1) for two connected flanges, comprising a sensor (2) installed to a holding means (3); characterized in that said sensor (2) is an optical sensor; said holding means (3) is at least two clamps having a top clamp portion (4) and base portion (5) wherein the said base portion (5) having a hole (6) for bolt.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007072

(22) **Filing Date** : 25 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : University Of Technology Sarawak

(72) **Inventor(s)** : Ashraf A. Razak ; Tonny Ling Heng Yew ; A. Razak Yaacob

(74) **Agent** : Muhammad Irfan Mustaqim Bin Awang C/O Patentsworth International Sdn Bhd

(54) **Title** : Integrated Ohmic Heating System And Method Thereof

(57) **Abstract** : The present invention discloses an integrated ohmic heating system for food pasteurisation, fermentation or sterilisation and a method thereof. The system comprises a power supply unit (100) for providing an alternating current, a heating receptacle (200) for receiving and storing particulate materials therein for ohmic heating, three or more electrodes (300) immersed or embedded into the particulate materials for passing the alternating current thereto to initiate and maintain the ohmic heating, a variable frequency drive unit (400) for varying a frequency and a waveform of the alternating current supplied thereof, a plurality of sensors (500) for collecting data indicative of parameters associated with the ohmic heating, a monitoring unit (600) for controlling an operational state of the ohmic heating, and an Internet-of-Things, IoT, platform (700) connected to the cloud server executable on a client device for displaying the collected data and that of processed by the microcontroller unit and receiving a user input in relation to the operational state of the ohmic heating thereof.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007078

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Putra Malaysia

(72) **Inventor(s)** : Abdul Rashid Mohamed Shariff ; Shahrzad Zolfagharnassab ; Reza Ehsani ; Ishak Aris ;
Hawa Jaafar

(74) **Agent** : Jasdeep Singh A/L Arjan Singh C/O Ip Sense Sdn. Bhd.

(54) **Title** : Method Of Determining Maturity Of An Oil-Bearing Crop, Its Oil Content And Quality Thereof

(57) **Abstract** : The present invention discloses a method of determining the maturity of an oil-bearing crop, its oil content and quality thereof, the method comprising the steps of: (i) acquiring an image of the oil-bearing crop by way of thermal imaging; (ii) processing the image acquired in step (i) to obtain a critical temperature (Δ Temp) of the oil-bearing crop; and (iii) subjecting Δ Temp as an input to an artificial neural network (ANN) model.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007082

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Devarajan Ramsamy ; Kumaran Kadirgama

(74) **Agent** : Ainoon Binti Shabirin

(54) **Title** : An Engine Coolant Composition

(57) **Abstract** : The present invention relates to coolants for cooling automobile engines, particularly a stabilized heat transfer formulations with carbon nanoparticles namely graphene. Also disclosed is a method for preparing an engine coolant composition, comprising the following steps: - preparing a mixture of ethylene glycol, water, carbon particles and a plant-based cellulose, wherein the cellulose is between 7.4 wt.% to 8wt.%, wherein the ethylene glycol is then mixed with the cellulose solution at a volume ratio of 20:80, 40:60, 60:40 or 80:20, and wherein the carbon particles are graphene particles of size ranging from 35-39 nm.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007106

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Ramadhansyah Putra Jaya ; Khairil Azman Bin Masri ; Mohamad Idris Bin Ali ; Nicole Liew Siaw Ing ; Noram Irwan Bin Ramli

(74) **Agent** : Ainoon Binti Shabirin

(54) **Title** : Porous Asphalt Mixture

(57) **Abstract** : The present invention relates to porous asphalt pavement and mixture for parking spaces, roadways, or streets, airfield runways and the like. In particular, the present invention relates to a porous asphalt mixture characterized by a binder and marine bio-waste as aggregates, where upon application to construct a pavement, the surface allows water to pass through at a high absorption rate, thereby reducing water run-off and reducing flooding.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007111

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Rokiah Binti Othman ; Ramadhansyah Putra Jaya ; Lim Eng Hock ; Nurul Elyeena Binti Rostam

(74) **Agent** : Ainoon Binti Shabirin

(54) **Title** : Pervious Concrete Mixture

(57) **Abstract** : The present invention relates to a pervious concrete composition with a cavity volume between 10 and 35 vol. %, comprising hydraulic binder, non-polymeric additive as a bonding agent, fillers and water, wherein the non-polymeric additive is an aluminosilicate mineral. Essentially, the aluminosilicate mineral is of the formula $AlSiO$. Preferably, the aluminosilicate is derived from andalusite, kyanite and sillimanite.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007112

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Khairunisa Binti Muthusamy ; Norhaiza Binti Ghazali ; Nur Farah Aziera Binti Jamaludin

(74) **Agent** : Ainoon Binti Shabirin

(54) **Title** : Water-Resistant Light-Weight Concrete

(57) **Abstract** : The present invention describes concrete mixture comprising cement, sand, a mixture of silica- and calcium-rich compounds in the form of solid particles and water. The selected materials which impart the water resistant characteristic also contributes to the concrete's high mechanical strength. Moreover, the present invention does not require the use of coarse aggregates such as sand, granite and others, and thus will eventually reduce the mining activities which harm the environment.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021004878

(22) **Filing Date** : 30 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Mohd Farihan Bin Jamaludin

(72) **Inventor(s)** : Mohd Farihan Bin Jamaludin

(74) **Agent** :

(54) **Title** : Electrical Energy Monitoring Device

(57) **Abstract** : This electrical energy monitoring device (10) is used to help users to monitor the use of electricity, where users can see the amount of energy consumption by monitoring at multi display monitor (3) and control electrical load by observing the energy mode indicator (2). The voltage and current signal get through voltage input (30) and current input (40) where the signal then process in microcontroller (20). The approach used is user -friendly, fun and easy to be understood, where users do not need to have special expertise to operate and use this invention. This invention also helps to educate consumers to use energy prudently which can save consumers electricity bills and reduce electricity consumption from power provider, where electricity generation is mostly from combustion sources which are contributors to the greenhouse effect.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007114

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Farah Hanani Binti Zulkifli ; Muhamad Zubair Ammar Bin Khairul Anuar ; Hazrulrizawati Binti Abd Hamid

(74) **Agent** : Ainoon Binti Shabirin

(54) **Title** : Bone-Voids Filler

(57) **Abstract** : The present invention describes a biomaterial as bone-voids filler for implantation in a human or animal body, characterized by a mixture of: - a water-soluble synthetic polymer; and - a mineral complex to enhance the strength of the polymer chain, wherein the polymer and mineral complex forms a mass consisting of micropores with average pore size range of 75-78.3 μm . It is essential that the mineral complex contains a mixture of at least calcium (Ca), chlorine (Cl), magnesium (Mg), potassium (K), sodium (Na), phosphorus (P), iron (Fe), zinc (Zn), iodine (I), copper (Cu), and selenium (Se).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022005895

(22) **Filing Date** : 21 October 2022

(30) **Priority Date** : 26 October 2021

(71) **Applicant(s)** : Advanced Assembly Materials China Limited

(72) **Inventor(s)** : Xing, Dawei

(74) **Agent** : Yan Pei Chun C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Constant-Pressure Spraying Apparatus, Constant-Pressure Spraying Method And Monitoring System

(57) **Abstract** : The present disclosure provides a constant-pressure spraying apparatus, a constant-pressure spraying method and a monitoring system. The constant-pressure spraying apparatus includes a liquid storage tank, a spraying pipe, a pump, a filter and a controller. The controller is configured to: adjust a frequency of the pump to change a spraying pressure of the liquid; determine a filtering coefficient of the filter element of the filter, wherein the filtering coefficient is related to a frequency of the pump and the spraying pressure of the liquid; and send an alert information according to the filtering coefficient of the filter element. The constant-pressure spraying method includes: adjusting a frequency of a pump to change a spraying pressure of a liquid; determining a filtering coefficient of a filter element of a filter, wherein the filtering coefficient is related to the frequency of the pump and the spraying pressure of the liquid; and sending an alert information according to the filtering coefficient of the filter element. The monitoring system includes an acquirer, the controller and an alert system. Fig. 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007119

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Min Aik Technology (M) Sdn. Bhd.

(72) **Inventor(s)** : Liao, Tzu-Ming

(74) **Agent** : Geetha Kandiah C/O Kass International Sdn. Bhd.

(54) **Title** : Electrical Connector Assembly

(57) **Abstract** : The present invention relates to an electrical connector assembly (10) for an electrical device (1) located in a first fluid chamber (3). The assembly (10) comprises an electrical connector connected to the electrical device (1) and extending between the first fluid chamber (3) and a second fluid chamber (4) through a junction between the chambers (3, 4). Furthermore, the assembly (10) comprises a housing (12) positioned at junction and at least partially enclosing the electrical connector.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007125

(22) **Filing Date** : 29 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Teknologi Malaysia

(72) **Inventor(s)** : Mohamad Nur Hidayat Bin Mat

(74) **Agent** : Ngan Yuet Kim C/O Abasan Sdn. Bhd.

(54) **Title** : A Method For Conducting Mesh Sensitivity Analysis

(57) **Abstract** : The present invention relates to a method for conducting mesh sensitivity analysis (100) comprising steps of preparing a Computational Fluid Dynamics, CFD mesh based on a Computer-Aided Design, CAD model (110), performing CFD calculation for a different type of mesh (120), plotting the calculated CFD data of each preferred mesh against their defined representative cell length (130), extrapolating the plotted data using Richardson extrapolation to obtain infinitely fine value defined at infinitely fine mesh value (140), and determining order of convergence using power law function based on differences in calculated CFD data between the meshes (150). Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007127

(22) **Filing Date** : 29 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Rice Bran Nutraceuticals Sdn. Bhd.

(72) **Inventor(s)** : Sellappan A/L Subbiah

(74) **Agent** : Geetha Kandiah C/O Kass International Sdn. Bhd.

(54) **Title** : Apparatus For Rice Bran Stabilization

(57) **Abstract** : An apparatus (100) for rice bran stabilization, comprising a pressurizable chamber (110) for withstanding pressure in an inner chamber (126), comprising, the inner chamber (126) for receiving and containing rice bran (200), a first electrode and second electrode for contacting the rice bran with high voltage electric, at least one thermocouple (130a, 130b, 130c) for measuring the temperature during stabilization, at least one sensor (120) to monitor current, temperature, voltage and/or pressure conditions during stabilization, control box (150) to control stabilization conditions and a monitor (160) displays the conditions of the pressure chamber (110).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007130

(22) **Filing Date** : 29 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Tun Hussein Onn Malaysia

(72) **Inventor(s)** : Mohd Aifaa Bin Mohd Ariff ; Muhammad Syafiq Anwar Bin Mustaza ; Mohamad Fauzi Bin Zakaria ; Mohd Azlee Bin Noor Amran

(74) **Agent** : Lok Choon Hong

(54) **Title** : A System And Method For Controlling An Unmanned Vehicle

(57) **Abstract** : The present invention discloses a system (100) and a method for controlling operations of an unmanned vehicle comprises: a controller (110) configured to transmit control signals to the unmanned vehicle; at least one electronic speed controller (120) arranged on the unmanned vehicle configured to regulate the operations of at least one motor based on received signals; and a control signal management device (130) for managing the controls signals between the controller (110) and the electronic speed controller (120). (Figure 1)

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2021007131

(22) **Filing Date** : 29 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Khairunisa Binti Muthusamy ; Rahimah Binti Embong ; Jose Rajan ; Nabilla Binti Mohamad

(74) **Agent** : Ainoon Binti Shabirin

(54) **Title** : A Cement Bonding Agent

(57) **Abstract** : The present invention relates to a cement bonding agent, particularly a new formulation and a method for enhancing cement bonding strength for preparing pastes, mortars, concretes or other cement-based materials. Specifically, it relates to a bonding agent comprising a mixture of calcium- and silica-rich compounds derived from marine and industrial waste, respectively.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007166

(22) **Filing Date** : 30 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Teknologi Malaysia (Utm)

(72) **Inventor(s)** : Mohammadreza Vafaei ; Sophia C. Alih

(74) **Agent** : Mohana Murali A/L Kodivel C/O Adastra Intellectual Property Sdn. Bhd.

(54) **Title** : Sandwiched Fuse Damper

(57) **Abstract** : Accordingly, embodiments herein disclose a sandwiched fuse damper (100) for dissipating input energy through yielding in a specific element that is referred to as a fuse, comprising of: three distinct parts including: two guest plates (1, 2) which are adapted to connect a device to a frame of building; and a brace (3) which is configured to connect from one side of one of the guest plates (1) and from the other side of a fuse (4) through a loading plate (5). The sandwiched fuses are connected to the guest plate (1) from one end and are attached to the brace (3) from the other end. Further, the fuse damper (100) includes two cover plates (6) which is bolted at both sides of the brace (3). The three distinct parts are working together to dissipate the ground motions input energy through plastic deformation in the fuses. The force is applied to the brace (3) will deform the fuses sandwiched between fuse plates (7), therefore dissipating the input energy.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007172

(22) **Filing Date** : 30 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Rusli Bin Zakaria

(72) **Inventor(s)** :

(74) **Agent** :

(54) **Title** : Galah Pengikat Plastik Pembungkus Tandan Pisang

(57) **Abstract** : SPESIFIKASI PATEN – RINGKASAN (ABSTRAK) Secara ringkasnya, REKACIPTA ini adalah hanya terdiri daripada SEBATANG PERALATAN YANG ASAS TETAPI REKA CIPTANYA HANYA TERDIRI DARIPADA GELUNG BESI BERJEJARI 5 YANG DISUSUN ATUR KHAS BERSAMA LUBANG BERSERTA TIANG SEBAGAI GALAH BAGI MEMASTIKAN PENGOPERASIAN MENGIKAT PLASTIK UNTUK TANDAN PISANG BERJALAN LANCAR DAN KEMAS SERTA AKAN DAPAT BERTAHAN SEHINGGA BUAH PISANG BOLEH DIPASARKAN. ALATAN INI HANYA MENGGUNAKAN TALI RAFIA YANG SENANG DIPEROLEHI DAN MURAH SERTA SENANG DIBAWA SEMASA PENGOPERASIAN. RAHSIA DI ATAS REKA CIPTA INI YANG RINGKAS TETAPI BERJAYA DIREALISASIKAN UNTUK PENGOPERASIAN INI ADALAH DI ATAS KEDUDUKAN 5 JARI BESI, CANGKUT BESI, LUBANG, CARA IKATAN TALI RAFIA DAN TEKNIK PENGOPERASIAN. Lakaran Rekacipta ini seperti di dalam Gambar Rajah 1 manakala rupa sebenar yang sudah diuji seperti di Gambar Rajah 3. Manakala kunci reka cipta GALAH PENGIKAT PLASTIK PEMBUNGKUS TANDAN PISANG iaitu Rujukan saya RZ-01/21 iaitu adalah pada Gambar Rajah 7 dan 8.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007177

(22) **Filing Date** : 30 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Intrix Meditec Sdn Bhd

(72) **Inventor(s)** : Cheng Tone Vei @ Tee Tone Vei

(74) **Agent** : Tan Sin Su C/O Qo Patent Sdn. Bhd.

(54) **Title** : An Improvement On Germicidal Irradiation Luminaire

(57) **Abstract** : The present invention relates to an improvement on upper room ultraviolet germicidal irradiation (UVGI) luminaire. Accordingly, the germicidal irradiation luminaire (100) includes: a) two or more ultraviolet germicidal irradiation (UVGI) light sources (110) operative to emit ultraviolet (UV) irradiation; b) a housing (120) with fixtures (122) facilitate to accommodate the UVGI light source (110); c) guiding means (126) on the housing (120), the guiding means (126) provided with a set of slats, louvres, bafflers, or guide plates, fixed or adjustable, hung at regular intervals to allow UVGI lights to pass through; wherein each UVGI light source (110) is laid on a different spaced apart horizontal plane above a horizontal plane (124) of the housing (120), and each UVGI light source (110) includes one or more ultraviolet (UV) lamps oriented in the housing (120), operative to emit UV irradiation; and wherein the UVGI light sources (110) are configured in such a way that a vertical plane along longitudinal length of one UVGI light source (110) intersects a vertical plane along longitudinal length of another UVGI light source (110), at an angle θ where θ is greater than or equal to 30 degrees ($\theta \geq 30^\circ$).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022004474

(22) **Filing Date** : 18 August 2022

(30) **Priority Date** : 23 November 2021

(71) **Applicant(s)** : Lokus Medical (Sg) Pte Ltd

(72) **Inventor(s)** : Wong Pow Lai ; Wong Tsu Kim

(74) **Agent** : Mohana Murali A/L Kodivel C/O Adastra Intellectual Property Sdn. Bhd.

(54) **Title** : Packaging System And Method Of Producing The Same

(57) **Abstract** : A packaging system for two-component non-medicated, liquid-based polyurethane (PU) foam, and a method of producing the same are provided. The system comprises a first chamber and a second chamber configured for synthesizing components at either side, a top part having openings, a base part folded, plurality of side regions, a center region, a temporary seal at the center region that can be Jimmied (force-open), two pre-cut incisions for tearing of package at either side of package, plurality of composite layers arranged from outside to inside of the packaging system, the plurality of composite layers, and the packaging system having an overall thickness. The method includes sealing the parts at predefined temperatures and conditions.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022005263

(22) **Filing Date** : 26 September 2022

(30) **Priority Date** : 26 November 2021

(71) **Applicant(s)** : Rinnai Corporation

(72) **Inventor(s)** : Shun Sato ; Shota Owaki

(74) **Agent** : Lee Lin Li C/O Tay & Partners

(54) **Title** : Stove Burner And Gas Stove

(57) **Abstract** : A stove burner (10) and a gas stove (1) can reliably detect a flame formed at a port with any level of heat. An ignitor (30) ignites a first port (22u) and allows a flame formed at the first port to spread to other first ports to start combustion at all the first ports. The flames at the first ports are spread to second ports (21f, 22f) above the first ports to start combustion also at all the second ports. A flame detection port (27) in the multiple first ports at which a flame detector detects a flame is located more inward in a radial direction of an outer circumferential surface of a burner head (20) than the other first ports. A detection upper port (26) in the multiple second ports and above the flame detection port is also located more inward in the radial direction of the outer circumferential surface of the burner head than the other second ports. The flame at the detection upper port is less likely to shift the flame at the flame detection port radially outward, allowing stable detection of the flame.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022005371

(22) **Filing Date** : 29 September 2022

(30) **Priority Date** : 29 November 2021

(71) **Applicant(s)** : Toyota Jidosha Kabushiki Kaisha

(72) **Inventor(s)** : Yu Shimizu ; Fumiyoshi Kuribara

(74) **Agent** : Chew Qi-Guang C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Vehicle

(57) **Abstract** : A vehicle includes a power reception unit 54 receiving power from outside of the vehicle, a power storage device 10, and a control device 500 performing control for charging the power storage device in accordance with a schedule set for timer charge. In the case where a charge time band of a first schedule defining a charge start time and a charge end time and a charge time band of a second schedule defining a charge start time and a charge end time overlap each other, the control device 500 starts charge at the earlier one of the charge start time of the first schedule and the charge start time of the second schedule when the charge start times are different, and ends charge at the later one of the charge end time of the first schedule and the charge end time of the second schedule when the charge end times are different.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022005762

(22) **Filing Date** : 14 October 2022

(30) **Priority Date** : 25 November 2021

(71) **Applicant(s)** : Metal Industries Research & Development Centre

(72) **Inventor(s)** : Lee Tsung-Ilan ; Jiang Jinn-Feng ; Hsu Shih-Chun ; Chang Tsu-Kun ; Lei Cheng-Tai ; Wei Hung-Yuan

(74) **Agent** : Linda Wang Chaw Ling C/O Zaid Ibrahim & Co.

(54) **Title** : System For Sensing And Responding To A Lateral Blind Spot Of A Mobile Carrier And Method Thereof

(57) **Abstract** : The present application is to provide a system for sensing and responding to a lateral blind spot of a mobile carrier and method thereof, which is applied for a mobile carrier during moving to a parking place. Firstly, a light scan unit and a depth image capture unit are used to scan a plurality of surrounding objects and capture a plurality of object depth images of the surrounding objects, and then a plurality of screened images are obtained according to a moving route of the mobile carrier for further obtaining correspondingly a plurality of forecasted lines to generate corresponded notice message for noting driver or ADAS. Due to the objects corresponding to the screened images and located on a blind position which is at one side of the mobile carrier, the notice message provides the driver preventing from the ignored danger by ignoring the blind position. (FIG. 1)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022005773

(22) **Filing Date** : 17 October 2022

(30) **Priority Date** : 25 November 2021

(71) **Applicant(s)** : Kem Hongkong Limited

(72) **Inventor(s)** : Tetsuo Kondo

(74) **Agent** : Charmayne Ong Poh Yin C/O Skrine

(54) **Title** : Insertion Hinge And Office Equipment Using The Same

(57) **Abstract** : To provide an insertion hinge intended to further facilitate an operation of a document cover by an operator of office equipment, the insertion hinge comprises an attaching case attached to the main body side of office equipment, wherein the attaching case comprises an equipment housing portion with one open end portion at the top in the interior thereof, a supporting member for supporting a document cover wherein the supporting member is rotatably coupled via a hinge shaft to a pair of both side plates of the attaching case, a slider slidably housed in the attaching case, and an elastic member resiliently provided between the slider and a bottom portion of the attaching case, and the hinge is characterised in that a slide friction mechanism for translating a rotation movement of the supporting member within a predetermined rotation range as accompanied with an opening and closing operation of the document cover into a slide movement to generate a friction torque is provided. (FIG. 5)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006138

(22) **Filing Date** : 02 November 2022

(30) **Priority Date** : 25 November 2021

(71) **Applicant(s)** : Daihatsu Motor Co., Ltd.

(72) **Inventor(s)** : Kota Iwashita ; Takashi Shioyama

(74) **Agent** : Hawa Diyana Binti Saim C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Vehicle Structure

(57) **Abstract** : A vehicle structure (1) includes: a vehicle cabin (2); a loading platform (3) provided rearward of the vehicle cabin (2); a drip rail (4) provided at a side edge portion (211) of a roof panel (21) that constitutes the vehicle cabin (2); and a garnish (6) disposed so as to cover a rear end portion (40) of the drip rail (4), in which the garnish (6) includes an inner surface (630) positioned on an extension line of the drip rail (4), and the inner surface (630) extends in a direction crossing an extending direction of the drip rail (4).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006139

(22) **Filing Date** : 02 November 2022

(30) **Priority Date** : 18 November 2021

(71) **Applicant(s)** : Daihatsu Motor Co., Ltd.

(72) **Inventor(s)** : Kota Iwashita ; Takashi Shioyama

(74) **Agent** : Hawa Diyana Binti Saim C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Vehicle Structure

(57) **Abstract** : A vehicle structure (1) includes: a back panel (2) provided in a cab-over vehicle (100); a pillar (3) to which the back panel (2) is fixed; a seatbelt anchor (4) mounted onto the back panel (2); and a reinforcement member (5) fixed to the pillar (3) and to a position in the back panel (2) onto which the seatbelt anchor (4) is mounted. In the vehicle structure (1), the reinforcement member (5) includes a deformation-allowed portion (515) that is deformed by a force in a pulling direction from the seatbelt (40).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006194

(22) **Filing Date** : 04 November 2022

(30) **Priority Date** : 30 November 2021

(71) **Applicant(s)** : Daihatsu Motor Co., Ltd.

(72) **Inventor(s)** : Yutaka Takeyama ; Shohei Mori

(74) **Agent** : Hawa Diyana Binti Saim C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Vehicle Radiator

(57) **Abstract** : An inlet pipe (4) protrudes in a horizontal posture from a front surface of an upper tank (2), and an inlet hose (5) is tightly fitted to the inlet pipe (4) from an outer side. In providing stoppers (9, 10) on an outer circumference of the inlet pipe (4), the stoppers (9, 10) are disposed in areas on both sides across a vertical centerline (12) forming an upper end and a lower end. The inlet hose (5) is fitted to the inlet pipe (4) while being shaken in an up-down direction. As an upper end and a lower end of the inlet hose (5) do not hit the stoppers (9, 10), the stoppers (9, 10) are not subjected to a strong pressing force. Thus, a phenomenon of fracture due to stress concentration can be prevented.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006564

(22) **Filing Date** : 22 November 2022

(30) **Priority Date** : 30 November 2021

(71) **Applicant(s)** : Eta Green Power Limited

(72) **Inventor(s)** : David Morgan ; Liam Bowman

(74) **Agent** : Ramakrishna Damodharan C/O Adipven (M) Sdn. Bhd.

(54) **Title** : Heatsink

(57) **Abstract** : Disclosed herein is a heatsink for removing heat from a heat source. The heatsink comprises a surface for placing adjacent to the heat source comprising a plurality of cavities formed into the surface, the plurality of cavities open on a side of the surface away from the side of the surface for placing adjacent to the heat source, and a plurality of projections, each projection extending from the surface adjacent to a corresponding cavity. Each cavity comprises a throat region configured to restrict the flow of air between each respective cavity and the region between a corresponding pair of projections extending from the surface adjacent to the cavity.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006733

(22) **Filing Date** : 30 November 2022

(30) **Priority Date** : 30 November 2021

(71) **Applicant(s)** : Eta Green Power Limited

(72) **Inventor(s)** : Bowman, Liam ; Morgan, David

(74) **Agent** : Ramakrishna Damodharan C/O Adipven (M) Sdn. Bhd.

(54) **Title** : Motor Rotor And Methods Of Manufacture

(57) **Abstract** : The present invention relates to a slotless motor including a thin-walled hollow rotor body 100, and methods of manufacture of such rotors, the methods including hot forming and machining steps. The rotor body has a rotational axis 102 and comprises a first cylindrical portion 104 having a first diameter, a second cylindrical portion 106 having a second diameter, larger than the first diameter and a third cylindrical portion 108 having a third diameter, smaller than the second diameter, the third cylindrical portion located at a second end of the rotor body 100. A first end cap 110 joins the first and second cylindrical portions together, and a second end cap 112 joins the first and second cylindrical portions together. The first, second and third cylindrical portions are all arranged coaxially with the rotational axis 102 of the rotor 100 such that the second cylindrical portion 108 and the first and second end caps collectively define a hollow cavity 114 in the rotor body 100. The rotor body 100 may be provided with a Halbach array.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021006854

(22) **Filing Date** : 18 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Pendidikan Sultan Idris

Inventor(s) : Aos Alaa Zaidan ; Ahmed Shihab Ahmed Al-Bahri ; Osamah Shihab Ahmed Albahrey ; Mamoun Alazab ; Jameel Rabee Jameel ; Bilal Bahaa Zaidan ; Samer Hasan Saif Qaid Albakri ; Hassan Abdulsattar Ibrahim Albayati ; Abdullah Hussein Abdullah Alamoodi ; Rawia Tahrir Salih Mohammed ; Sarah Qahtan M. Salih ; Salem Abdullah Salem Garfan

(74) **Agent** : Afiqah Aisyah Binti Suriyadi C/O Ipsury Enterprise

(54) **Title** : A Method For Patient Triage

(57) **Abstract** : The present invention relates to a method for patient triage. The method includes the steps of evaluating and assessing condition of each patient and assigning a triage level to each patient according to a conditional decision tree with the patient's condition being evaluation criteria. Thereon, a priority score for each patient in each triage level is computed and assigned, wherein the priority score is computed according to a patient decision matrix. Thereafter, a medical professional is notified with the triage level and priority score of each patient. The patient's condition is monitored and after a certain period, the condition of each patient is re-evaluated and re-assessed. Finally, the method includes the steps of determining whether the patient's condition has worsened, improved or remained the same and re-assigning a new triage level to the patient if the patient's condition has worsened or improved. The most illustrative drawing: Figure 2

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021006922

(22) **Filing Date** : 22 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Cellaax Sdn. Bhd.

(72) **Inventor(s)** : Angelina Tiah Shy Yng

(74) **Agent** : Chee Jenn Yang C/O Nbs Intellectual Sdn. Bhd.

(54) **Title** : Composition Containing Secretome And Preparation Method Thereof

(57) **Abstract** : The present invention provides a method to prepare a composition for therapeutic application, comprising steps of harvesting stem cells (100), culturing the stem cells in a culture medium at approximately 37°C until at least 70% confluency (200, 300), changing the culture medium into 0.5–1.5% sodium solution (400), culturing the stem cells in the sodium solution for 1–3 days (500), precipitating a supernatant containing a secretome from the cultured solution (600), and filtering the supernatant (700). A ratio of the secretome to the sodium solution ranges from 1:1 to 3:1, such that the composition is suitable to be used in parenteral, surgical or external administration.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021006963

(22) **Filing Date** : 23 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Shenzhen City Sing Dean Technology Co., Ltd.

(72) **Inventor(s)** : An Rubin ; Luo Yongshu

(74) **Agent** : Chee Jenn Yang C/O Nbs Intellectual Sdn. Bhd.

(54) **Title** : Heater

(57) **Abstract** : This utility model, a heater, is composed of shell body (1), water pipe (2), heating unit (3), pump-controlled thermostat (41), steam-controlled thermostat (42) and TCO wiring components (5). In U shape and of stainless steel materials, the water pipe (2) conforms to the food security standards and product safety requirements. The water pipe (2) and heating unit (3) are both secured on the shell (1). The heating unit (3) is located on one side of the shell (1), between water entering and exit intervals (21, 22). The pump-controlled thermostat (41) and steam-controlled thermostat (42) are installed on the shell body (1), also between water entering and exit intervals (21, 22). The sides of TCO wiring components (5) are respectively connected to the heating unit (3) and the pump-controlled thermostat (41), while the other side of the heating unit (3) is connected to the steam-controlled thermostat (42).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021006989

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Teknikal Malaysia Melaka

Inventor(s) : Mohamad Afiq Amiruddin Bin Parnon ; Adnan Bin Katijan ; Qamar Fairuz Bin Zahmani ;
(72) Ahmad Zulhusni Bin Che Mamat ; Saiful Naim Bin Sulaiman ; Mohd Zahirulza'Im Bin Samin ; Azrin Bin Ahmad ; Abd Khahar Bin Nordin ; Mohd Suffian Bin Razak ; Md. Rizal Bin Masri

(74) **Agent** : Lok Choon Hong

(54) **Title** : Apparatus For Testing Pressure Relief Valves

(57) **Abstract** : The present invention discloses an apparatus (1) for checking performance of a valve (100) comprising: a testing platform (2) which includes: a seat (3) where the valve (100) is placed thereon, wherein the seat (3) comprises a flow connection (7) configured to connect to an inlet (101) of the valve (100) for passing a pressurized testing source to the valve (100); a pair of clamping arms (4a, 4b) engageable with fasteners (5) for securing the valve (100) on the seat (3); and a channel (6) where bases (8a, 8b) of the clamping arms (4a, 4b) are engaged thereon for allowing the clamping arms (4a, 4b) to slide towards or away from the seat (3), wherein the clamping arms (4a, 4b) are swingable between a clamping position where the clamping arms (4a, 4b) are engaged with the fasteners (5) to secure the valve (100) firmly on the seat (3) and an unclamping position where the clamping arms (4a, 4b) are disengaged from the fastener (5) to allow removal of the valve (100) from the seat (3). (Most illustrative figure: Fig. 1)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007003

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Tenaga Nasional

(72) **Inventor(s)** : Nowshad Amin ; Mohammad Shakeri

(74) **Agent** : Mad Isa Bin Mohamed C/O Pro Ip Sdn. Bhd.

(54) **Title** : Smart Meter For Energy Monitoring, Sharing And Forecasting

(57) **Abstract** : The present invention discloses a smart meter for energy monitoring and forecasting (100), wherein the smart meter (100) allows connection with multiple users for sharing and distributing electricity via cooperative grid feature the smart meter, and is comprising a plurality of sensors (101) to collect data; a microcontroller (102) that is connected to the plurality of sensors (101) to process the collected data from the sensors (101) by using an algorithm to predict usage of electricity and energy production; a display (103) to show readable data that has been processed by the microcontroller (102); an Internet of Things, IoT module (104) that is connected to the microcontroller (102) and is virtually connected to a cloud (105) via MQTT protocol for saving the data therein; wherein the smart meter (100) enables saved data in the cloud (105) to be shared with a plurality of mediums (106). Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007004

(22) **Filing Date** : 24 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaya

(72) **Inventor(s)** : Felicita Fedelis A/P Jusof ; Gilles J. Guillemin ; Lim Chai Kiat ; Shamala Devi A/P K.C. Sekaran

(74) **Agent** : Teh Chee Kheng C/O Pharmacosip Consultancy

(54) **Title** : Prognostic Biomarkers Of Dengue With Warning Signs

(57) **Abstract** : PROGNOSTIC BIOMARKERS OF DENGUE WITH WARNING SIGNS ABSTRACT The present invention discloses a method (10) to determine and predict the progression of dengue infection to dengue with warning signs comprising the steps of: obtaining blood serum from patient with dengue infection (11); analysing the kynurenine pathway metabolites level in the blood serum (12); analysing the cytokines level in the blood serum, (13); and comparing the analysed levels of kynurenine pathway metabolites and cytokines to classify the dengue infection into the classes of Dengue without Warning Signs, DWS-, Dengue with Warning Signs, DWS+ or Severe Dengue, SD (14). Figure 2 (The most illustrative figure)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007038

(22) **Filing Date** : 25 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Rajaletchumy A/P Veloo Kutty ; Kirthana A/P Gopal ; Yaneesa Vetsandonphong A/P Eh Chaw ; Michelle A/P William Santhiagu

(74) **Agent** : Lok Choon Hong

(54) **Title** : An Antimicrobial Handwash

(57) **Abstract** : The present invention relates to the field of cosmeceutical product. More particularly, the present invention relates to antimicrobial handwash composition comprising (a) a *Quercus infectoria* extract at about 1 to about 10 percentage by weight of the composition; (b) *Aloe barbadensis* at about 1 to about 5 percentage by weight of the composition; (c) a primary surfactant at about 5 to about 20 percentage by weight of the composition; (d) a secondary surfactant at about 5 to about 20 percentage by weight of the composition; and water at about 45% to about 88% by weight of the composition. The antimicrobial properties of the antimicrobial handwash composition are provided by a plant extract instead of chlorhexidine gluconate or triclosan. (The most illustrative figure: Figure 1)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007105

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Jabatan Pengairan Dan Saliran (Daerah) Hilir Perak, Teluk Intan

Inventor(s) : Mahidi Bin Mahamood A.M.P. ; Mohd Shamimi Bin Mohd Tahir ; Mohd Ekmall Bin Mohd Sharan ; Mohd Amin Bin Si Rajab ; Mohd Hafiz Bin Hasan ; Rosniza Salwa Binti Abdul Aziz ; Muhammad Helmi Bin Mohammad Swadi ; Alex A/L Tani Kalas ; Azrul Arif Bin Azmil ; Ir. Baharuddin Bin Abdullah

(74) **Agent** :

(54) **Title** : A Door For A Sluice Gate Or A Penstock

(57) **Abstract** : The present invention relates to a door (10) for a sluice gate or a penstock which is used for controlling the water level and the water flow in a water channel. The door includes a panel (20) and a supporting member (30) for holding the panel (20). The panel (20) is made of polymeric material and rice husks. The door (10) comprises of a simplified structure and can be fabricated with ease and in a short time, thus ensures that a broken or damaged original door in an existing sluice gate can be replaced in a short time. The provision of rice husks as one of the main materials in making the panel (20) also contributes to the solution of disposing rice husks from paddy plantation industry in an environmentally friendly way.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007115

(22) **Filing Date** : 26 November 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Universiti Malaysia Pahang

(72) **Inventor(s)** : Noor Suraya Binti Romali ; Khairul Anuar Bin Shahid

(74) **Agent** : Geetha Kandiah C/O Kass International Sdn. Bhd.

(54) **Title** : Green Roof System

(57) **Abstract** : A green roof system comprising at least one layer including a vegetation layer, a substrate layer, a filter layer, a drainage layer, and a waterproofing layer is disclosed. The filter layer of the green roof system is made up of fibres from at least one natural source selected from the group consisting of coconut, oil palm, kenaf, sugarcane, bamboo, flax, sisal, and coil and the drainage layer is made up of burnt natural waste material selected from the group consisting of coconut shells, oil palm shell, rubber crumbs and palm oil clinker. The green roof system improves the stormwater / rainfall runoff water quantity and quality and serves as an effective means for storm water management.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007667

(22) **Filing Date** : 22 December 2021

(30) **Priority Date** : 23 November 2021

(71) **Applicant(s)** : Mine Mobility Research Co., Ltd.

(72) **Inventor(s)** : Somphote Ahunai ; Wimolmas Wongmakornpan ; Janesak Sudsangtienchai ; Metha Jeenkawkam ; Saranakom Cheecharoen ; Chanmetha Tongkanluang ; Pun Praphanphoj

(74) **Agent** : Wong Dan Yi C/O Yusarn Audrey Ip Services Sdn. Bhd

(54) **Title** : Pass-Through Charging System For Replacing And Charging Battery Units Mountable Within Receptacle Cars

(57) **Abstract** : A pass-through charging system for replacing and charging each of a plurality of battery units 11 mountable within one of a plurality of receptacle cars 12A. The charging system comprises: (a) a pass-through rail line 17 configured to provide ingress and egress through a charging station (10A, 10B) for each receptacle car 12A positioned on the pass-through rail line 17; and (b) at least one platform transfer tool located in the charging station (10A, 10B). Each platform transfer tool is configured to, for each receptacle car 12A including at least one battery unit 11 of discharged status: (i) receive each battery unit 11 of discharged status from the receptacle car 12A; (ii) place each battery unit 11 of discharged status onto a charging platform 15 of the charging station (10A, 10B) for charging by at least one charging pile 16 during a charging session; and (iii) return at least one of the battery units 11 of recharged status from the charging platform 15 into the receptacle car 12A. FIG. 1A

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007670

(22) **Filing Date** : 22 December 2021

(30) **Priority Date** : 23 November 2021

(71) **Applicant(s)** : Mine Mobility Research Co., Ltd.

(72) **Inventor(s)** : Somphote Ahunai ; Wimolmas Wongmakornpan ; Janesak Sudsangtienchai ; Metha Jeenkawkam ; Saranakom Cheecharoen ; Chanmetha Tongkanluang ; Pun Praphanphoj

(74) **Agent** : Wong Dan Yi C/O Yusarn Audrey Ip Services Sdn. Bhd

(54) **Title** : Pass-Through Charging System For Routing And Charging Of Battery Cars

(57) **Abstract** : A pass-through charging system for routing and charging each of a plurality of battery cars 12B within a charging station (10C, 10D). The charging system comprises: (a) a pass-through rail line 17 configured to provide ingress and egress through the charging station (10C, 10D) for each battery car 12B positioned on the pass-through rail line 17; and (b) a battery car diverting mechanism installed in the charging station (10C, 10D). The battery car diverting mechanism is configured to: (i) divert each battery car 12B of discharged status from the pass-through rail line 17 to a secondary rail line 43; and (ii) return each battery car 12B of recharged status from the secondary rail line 43 to the pass-through rail line 17 upon completion of the charging session associated with the battery car 12B by the at least one charging pile 16. FIG. 3

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007825

(22) **Filing Date** : 28 December 2021

(30) **Priority Date** : 25 November 2021

(71) **Applicant(s)** : Inforcharge Co.,Ltd

(72) **Inventor(s)** : Chen Wei Han

(74) **Agent** : Bahari Yeow Tien Hong* C/O Gan Partnership

(54) **Title** : Advertising Mirror

(57) **Abstract** : Disclosed is an advertising mirror, comprising a mirror plate, a touchscreen display element and a control processing unit, wherein the advertising mirror is capable of serving as a regular mirror for hair care and illustrating a displaying content, and the advertising mirror is configured to illustrate an advertisement script along with a shopping link scan code that allows a user to access an online shopping website associated with the advertisement script via the shopping link scan code.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : UI2021007829

(22) **Filing Date** : 28 December 2021

(30) **Priority Date** : 25 November 2021

(71) **Applicant(s)** : Inforcharge Co.,Ltd

(72) **Inventor(s)** : Chen Wei Han

(74) **Agent** : Bahari Yeow Tien Hong* C/O Gan Partnership

(54) **Title** : Live-Stream Viewing Mirror

(57) **Abstract** : Disclosed is a live-stream viewing mirror, comprising: a mirror plate, a touchscreen display element and a control processing unit, wherein the live-stream viewing mirror is capable of serving as a regular mirror for hair care and simultaneously illustrating a live-stream content of a live-stream while illustrating a program content of a video program.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007833

(22) **Filing Date** : 28 December 2021

(30) **Priority Date** : 25 November 2021

(71) **Applicant(s)** : Inforcharge Co.,Ltd

(72) **Inventor(s)** : Chen Wei Han

(74) **Agent** : Bahari Yeow Tien Hong* C/O Gan Partnership

(54) **Title** : Smart Mirror

(57) **Abstract** : Disclosed is a smart mirror, comprising: a mirror plate, a touchscreen display element, a camera and a control processing unit, wherein the smart mirror is capable of serving as a regular mirror for hair care and illustrating a displaying content, and the smart mirror is configured to provide a recommendation advertisement for a user according to user preference information derived from a program selecting operation of the user and user appearance characteristic information derived from a recognition image of the user.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006270

(22) **Filing Date** : 08 November 2022

(30) **Priority Date** : 12 November 2021

(71) **Applicant(s)** : Advanced Assembly Materials China Limited

(72) **Inventor(s)** : Han, Hao ; Ho, Chi Chung ; Chan, Tat Chi ; Wan, Ming

(74) **Agent** : Yan Pei Chun C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Inspection Method Of Leadframe

(57) **Abstract** : An inspection method of a leadframe includes: obtaining a learning image of a first leadframe; detecting a first defect according to the learning image of the first leadframe, the first defect being a defect of the first leadframe; when several first defects are detected, obtaining corresponding several first defect images; applying a first deep learning model to process the several first defect images to obtain a severity level of each of the first defects; and determining a particular investigation grade suitable for delivery of the first leadframe according to the severity levels of the several first defects. Through the inspection method of a leadframe, admin and labor costs may be reduced, and the efficiency and stability of inspection may be improved. Fig. 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006229

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(71) **Applicant(s)** : Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)

(72) **Inventor(s)** : Hiroaki Yoshizaki ; Takahiro Izumi ; Yasufumi Otsuka

(74) **Agent** : Yan Pei Chun C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Aluminum Alloy Sheet For Magnetic Disk, Aluminum Alloy Blank For Magnetic Disk, And Aluminum Alloy Substrate For Magnetic Disk

(57) **Abstract** : An aluminum alloy sheet for a magnetic disk, a blank, and a substrate which are excellent in the proof stress and Young's modulus and in which the occurrence of cracks during rolling is prevented are provided. The aluminum alloy sheet for a magnetic disk, the blank, and the substrate contain: 2.1 mass% or more and 4.8 mass% or less of Mg; 1.00 mass% or less of Cu; 0.01 mass% or more and 0.30 mass% or less of Cr; 0.20 mass% or less of Si; and one or more of 0.10 mass% or more and 1.70 mass% or less of Fe, 0.06 mass% or more and 1.50 mass% or less of Mn, and 0.0001 mass% or more and 2.70 mass% or less of Ni, with the remainder being Al and impurities, in which the total content of Fe, Mn, Ni, and Cr is 1.05 mass% or more and 2.40 mass% or less, and a relationship of the content of Mg (mass%) $< -2.75 \times$ the total content (mass%) + 8.8 is satisfied.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022005959

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(71) **Applicant(s)** : Advanced Assembly Materials China Limited

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(54) **Title** : Inspection Method Of Leadframe

(57) **Abstract** : An inspection method of a leadframe includes: obtaining a learning image of a first leadframe; detecting a first defect according to the learning image of the first leadframe, the first defect being a defect of the first leadframe; when several first defects are detected, obtaining corresponding several first defect images and several first defect feature data; applying a first deep learning model to process the several first defect images to obtain a defect classification of each of the first defects; and determining a particular investigation grade suitable for delivery of the first leadframe according to the several first defect feature data and the defect classifications of the several first defects. Through the inspection method of a leadframe, admin and labor costs may be reduced, and the efficiency and stability of inspection may be improved.

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