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MALAYSIA INTELLECTUAL PROPERTY OFFICIAL JOURNAL

PATENT

12 November 2025
Batch 23/2025

PERBADANAN HARTA INTELEK MALAYSIA
Intellectual Property Corporation Of Malaysia (MyIPO)

GENERAL INFORMATION

1. In accordance with subsection 31(3) of the Patens 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 35A(3) of the Patents Act 1983, the following patents are reinstated.

4. In accordance with subsection 33D(1) of the Patents Act 1983, the registrar shall publish the prescribed information relating to patent application—

   a) after 18 months from filing date, or if right of priority is claimed, the priority date of a patent application; or
   b) at the request of the applicant for an early publication before the period specified in paragraph (a).

5. In accordance with subsection 55(4) of the Patents Act 1983, the following patents are surrender.

6. In accordance with subregulation 34(5) of the Patents Regulations 1986, the following patents have changed it ownership.

7. In accordance with subsection 54(3) of the Patents Act 1983, the following compulsory licences are surrender.

INTELLECTUAL PROPERTY OFFICIAL JOURNAL

Batch No.
23/2025

LAPSED

WITH EFFECT FROM DATE 12 NOVEMBER 2025
THE FOLLOWING PATENTS /
UTILITY INNOVATIONS HAVE LAPSED

No.	Patent No.	Application No.
1	MY-135394-A	PI 20052783
2	MY-141333-A	PI 20064602
3	MY-141350-A	PI 20053252
4	MY-141420-A	PI 20052100
5	MY-141421-A	PI 20052021
6	MY-141490-A	PI 20060917
7	MY-143324-A	PI 20055011
8	MY-143347-A	PI 20070042
9	MY-143372-A	PI 20061163
10	MY-145797-A	PI 20094650
11	MY-148415-A	PI 20095680
12	MY-148520-A	PI 2010005816
13	MY-148522-A	PI 2010005897
14	MY-148560-A	PI 20055012
15	MY-148573-A	PI 20091989
16	MY-151078-A	UI 2011700118
17	MY-151083-A	PI 2012700142
18	MY-151084-A	PI 2011700005
19	MY-151111-A	PI 2012003273
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21	MY-151215-A	PI 2011003525
22	MY-151221-A	PI 2010004237
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PATENT

26	MY-153875-A	PI 2013700344
27	MY-153885-A	PI 2010003635
28	MY-153901-A	PI 2010002918
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33	MY-154035-A	PI 2012001183
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35	MY-154042-A	PI 2012002691
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37	MY-154104-A	PI 2011002271
38	MY-156875-A	PI 2011005364
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41	MY-156909-A	PI 2010006344
42	MY-156965-A	PI 2012004298
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323	MY-202490-A	PI2020004236
324	MY-202496-A	PI2022004150

18 MONTH PUBLICATION

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2022000323

(22) **Filing Date** : 30 April 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Beancow Plt

(72) **Inventor(s)** : Tee Yoke Yen

(74) **Agent** : NONE

(54) **Title** : Method To Transfer Electronic Digital Receipt Of Point-Of-Sale (Pos) System Via Bar Code

(57) **Abstract** : The present invention extends to methods for transferring electronic digital receipt of Point-Of-Sale (POS) system to mobile devices, through bar code. The present invention incorporates paperless receipting functionality into Point-Of-Sale (POS) system without upgrading or modification to existing software. A Point-Of-Sale (POS) system produces electronic digital receipt as part of a sales transaction. The Point-Of-Sale (POS) system and a mobile device, interoperate with one another to transfer digital receipt to the mobile device via bar code. In some embodiments, the mobile device accesses the digital receipt generator server along with the encoded data from bar code. The encoded data from bar code consists at least a portion of the receipt for the sales transaction, parsed by decoding module and subsequently sending the electronic digital receipt in web-based format to mobile device. In other embodiments, the Point-Of-Sale (POS) system transfers electronic digital receipt directly to the mobile device via bar code, without another apparatus involved.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : UI2024002735

(22) **Filing Date** : 09 May 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Siew Lam Peng

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

(54) **Title** : Holder Mechanism For Drinking Fluid Dispensers

(57) **Abstract** : The present invention relates to a holder mechanism (100) designed for drinking fluid dispenser. Accordingly, the holder mechanism (100) includes: a) one or more modular cup holder units (110), each unit featuring connection interfaces (120); and b) a base support (130) intended to hold the drinking fluid dispenser (200). The base support (130) is equipped with corresponding mating connection interfaces (120') for the attachment of the modular cup holder units (110). The modular cup holder units (110) are configured to be removably coupled to the base support (130) through engagement between the connection interfaces (120) of the modular cup holder units (110) and the corresponding mating connection interfaces (120') of the base support (130). The modular cup holder units (110) coupled to the base support (130) can be configured to detachably interconnect with the other modular cup holder units (110) through their connection interfaces (120).

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002544

(22) **Filing Date** : 30 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Harith Bin Ahmad ; Mohammad Faizal Bin Ismail ; Muhammad Syamil Bin Mohd Sa'Ad ; Muhammad Khairol Annuar Bin Zaini ; Lim Kok Sing ; Muhamad Zharif Bin Samion ; Leonard Anak Bayang ; Siti Aisyah Binti Reduan

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

(54) **Title** : A Device For Monitoring Soil Pressure And Temperature

(57) **Abstract** : The present invention relates to a device (1) for monitoring soil pressure and temperature, comprising of : an elongated optical fiber (2) embedded with at least two fiber Bragg grating sensors (FBGs), namely the fiber Bragg grating pressure sensor (FBGP) (3) and fiber Bragg grating temperature sensor (FBGT) for simultaneous pressure and temperature sensing; a horizontal actuator (4) is sandwiched between a pair of plates (5) mounted on top of the actuator to withstand applied loads and on the bottom of the actuator acting as a base, wherein, the actuator (4) further comprises of a circular section (5) including an aperture member (6) position parallel at each side of the circular section; characterized in that: said elongated fiber (2) is inserted longitudinally into the circular section (5) of the actuator (4) extending across the other end of the circular section (5) through both the aperture members (4) with the FBGP (3), affixed within the actuator (4) to optimize strain transfer from the load applied from the actuator (4) to the FBGP (3); the elongated fiber (2) at the other end of the circular section (5) further comprises of the strain-free FBGT unattached and position separately from the actuator (4) to monitor wavelength shift and temperature change; and a protective casing encasing the actuator (4) and the FBGs to optimize and evenly distribute strain transfer from external soil to the FBGs. Drawing accompanying abstract: Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024002546

(22) **Filing Date** : 30 April 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Lembaga Getah Malaysia

(72) **Inventor(s)** : Liew Yun Khoon ; Koh Rhun Yian ; Shabinah Filza Binti Mohd Sharib ; Lee Siang Yin ; Desmond Ang Tech Chye

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

(54) **Title** : A Latex Dipping Film Composition

(57) **Abstract** : The present invention relates to a latex dipping film composition comprising an ammonia-free natural rubber latex concentrate preserved by palm oil-based surfactant. The present invention also relates to a method of producing a latex dipping film by compounding ammonia-free natural rubber latex concentrate preserved by palm oil-based surfactant with other compounding ingredients, maturating the compounded latex and adjusting to final total solid content (TSC) about 30 wt % to form a latex dipping film. The produced latex dipping film fulfil standard requirements for medical devices and rubber glove applications whereby the standard requirements including exhibit tensile properties, low extractable protein contents, low total bioburden, low to no cytotoxicity and exhibit biodegradable and oxidative degradable properties. Most Illustrative Figure: Figure 2

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002556

(22) **Filing Date** : 02 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Yeong Chai Hong ; Goh Choon Fu ; Mohd Nazri Bin Md Shah

(72) **Inventor(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Yeong Chai Hong ; Goh Choon Fu ; Mohd Nazri Bin Md Shah

(74) **Agent** : NONE

(54) **Title** : Truflow-Medical 3-Way Stop-Cock

(57) **Abstract** : The medical device features a 3-way stopcock with a central main body (5) from which three branch pipes (1, 2, and 3) extend. These branch pipes are equidistantly spaced and protrude to a predetermined length to accommodate medical tubing connections. Branch pipe (1) is fitted with a male medical connector designed to interface with female connectors in urine drainage tubing. The material arid dimensions of this pipe are adaptable, offering versatility for various medical applications. Branch pipe (2) features a female medical connector designed to connect with male connectors on pigtail drainage catheters. Between the main body (5) and the female connector tubing (2) is a connector tubing segment (6), offering flexibility in length and customization for specific medical needs. Branch pipe (3) retains a female luer lock design but with an enlarged inner diameter, allowing for increased fluid flow and reducing the risk of occlusion, especially when handling viscous or particulate-laden fluids. The main body(5) contains a cylindrical cock (4) with a T-shaped flow path that aligns with the branch pipes, allowing fluid direction control. The cock rotates through an angular range of 90 degrees, permitting selective communication between two branch pipes while blocking the third, The diameter of the flow passages within the cock is 14F, significantly larger than standard stopcocks, allowing for greater fluid movement and reduced resistance. The main body is crafted from sturdy resin, such as polycarbonate, while the cock uses high-density polyethylene. The limbs of the stopcock are made from PVC or PP. ensuring biocompatibility and durability.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002558

(22) **Filing Date** : 02 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Yeong Chai Hong ; Goh Choon Fu ; Mohd Nazri Bin Md Shah

(72) **Inventor(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Yeong Chai Hong ; Goh Choon Fu ; Mohd Nazri Bin Md Shah

(74) **Agent** : NONE

(54) **Title** : Truflow Enhanced Percutaneous Medical Drainage Catheter

(57) **Abstract** : The present invention pertains to an advanced catheter system specifically designed for the efficient and secure drainage of viscous and particulate-laden fluids from body cavities. This system integrates a novel catheter with a unique construction. The TRUFLOW drainage catheter system, optimized for the efficient drainage of body cavity fluids, comprises three main components: the drainage catheter (1), the stiffening cannula (2), and the trocar (3). The system features an elongated shaft (2) that combines necessary rigidity for ease of insertion with flexibility for navigating internal structures. Its hub (3) includes a female medical connector tubing with a female luer lock (4), designed to connect seamlessly with the male connector of a TRUFLOW 3-way stopcock, supporting a range of catheter sizes from 6F-12F. This configuration enhances fluid flow efficiency and reduces the need for replacements. The catheter is equipped with a radiopaque marker (5) for precise imaging- based placement and a pigtail coil (6) at its distal end to secure it within the drainage site. Multiple drainage holes (7) are strategically placed to optimize fluid entry and prevent blockages. The stiffening cannula (2) includes a hollow stiffening rod (8) and a ‘stopper’ (9) at its tip (10), ensuring a snug fit and reducing the risk of buckling. The cannula’s hub (11) features a male luer lock (12) that connects to a female luer lock (13) at the hub, facilitating the insertion of the trocar (14) which has a stiff metal rod (15) with a diamond tip (16) and a hub (17) with a male luer lock (18). This assembly allows for direct percutaneous catheter delivery without a guidewire, securely interconnected at their proximal ends by the luer locks (3, 11, 12, & 16).

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024002559

(22) **Filing Date** : 02 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Mohammed Rafiq Bin Dato' Abdul Kadir ; Harjit Singh S/O Pritam Singh

(72) **Inventor(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Mohammed Rafiq Bin Dato' Abdul Kadir ; Harjit Singh S/O Pritam Singh

(74) **Agent** : NONE

(54) **Title** : Cathsecure Butterfly Catheter Holder

(57) **Abstract** : The present invention relates to an advanced medical device, specifically the “Butterfly” catheter holder, designed to significantly improve the management of catheters in medical settings. This innovative device addresses common limitations found in conventional catheter holders by offering enhanced stability, adjustability, and security, ensuring precise catheter placement while minimizing the risk of displacement. The “Butterfly” catheter holder is characterized by its unique design, featuring a baseplate (Figure 1 & Figure 2) equipped with a body (1) that includes a turret basket (3) and laterally extending wings (2). These wings, resembling a butterfly, are not only aesthetically pleasing but also highly functional, providing a stable and broad platform for the device. The baseplate's design, with multiple perforations (4), allows for easy attachment to other surfaces or devices, further enhancing its utility. Central to the invention is the turret holder (Figure 3), comprising a turret body (5), a rotatable turret ring (6) that fits into the turret basket of the baseplate, and a catheter barrel (7) designed to hold and secure catheters of varying diameters. The catheter barrel features grooves (8) for improved catheter adherence, ensuring the catheter remains in place during medical procedures. Additionally, the turret holder features tie grooves (10) for securing the catheter using ties, providing an extra layer of stability and security. The invention allows for the turret ring to rotate and adjust in height relative to the baseplate, offering unprecedented flexibility in catheter positioning. This feature is crucial for adapting to various clinical scenarios and patient needs, ensuring optimal catheter placement without compromising patient comfort or the sterility of the catheter. In conclusion, the “Butterfly” catheter holder represents a significant advancement in medical equipment, providing a versatile, stable, and secure means of catheter administration and management. Its novel design and functional features address pressing needs in medical settings, allowing for frequent adjustments to the catheter position, maintaining enhanced stability, and ensuring the comfort and safety of patients.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002561

(22) **Filing Date** : 02 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Mohammed Rafiq Bin Dato' Abdul Kadir ; Harjit Singh S/O Pritam Singh

(72) **Inventor(s)** : Basri Johan Bin Jeet Abdullah ; Nabil Imran Bin Basri Johan Jeet ; Mohammed Rafiq Bin Dato' Abdul Kadir ; Harjit Singh S/O Pritam Singh

(74) **Agent** : NONE

(54) **Title** : Spaceacer-Thermal Ablation Needle Spacer And Holder

(57) **Abstract** : The SpaceACER Needle Spacer and Holder is a groundbreaking medical device designed to. enhance precision and stability in percutaneous tumor ablation procedures such as radiofrequency ablation (RFA), microwave ablation (MWA), and cryoablation. This innovative device is constructed with a base plate (1) that serves as its foundation. Spacer teeth (2) and spacer slats (3) provide precise needle spacing, while needle grooves (4) and an anchoring clip (5) ensure secure needle attachment. The numbering system used in the drawings allows for easy identification of key components and their functions. The base plate (1) provides support for other components, with symmetrical or asymmetrical sides to accommodate different spacer slat dimensions. The spacer slats (3) maintain needle alignment before anchoring, while the needle grooves (4) hold the needles securely in place. The anchoring clip (5) secures the needles with minimal force, reducing the risk of displacement. Constructed from radiolucent and biodegradable materials, the SpaceACER is compatible with imaging techniques like ultrasound and CT scans, providing clear visibility during procedures. Its lightweight ergonomic design reduces operator fatigue and improves workflow. Designed for single use, it enhances patient safety by reducing the risk of cross-contamination, while its biodegradable materials minimize environmental impact. The use of the numbering annotation ensures a clear understanding of the device’s structure and facilitates accurate needle placement during percutaneous tumor ablation procedures

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002610

(22) **Filing Date** : 03 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Skintect Resonance Sdn Bhd

(72) **Inventor(s)** : Siaw Ah Eng

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

(54) **Title** : A Coating Composition For Fabric

(57) **Abstract** : A coating composition for fabric comprises a mixture of tourmaline, a binder and a water-based solvent. The composition is obtained by subjecting the mixture to bombardment with a vibration force at a frequency of 20 Hz to 20 kHz for at least 24 hours. (No illustrative drawing)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002647

(22) **Filing Date** : 06 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Aras Innovative Plt

(72) **Inventor(s)** : Arzul Bin Arifin

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

(54) **Title** : A Farming System For Mollusc Or The Like

(57) **Abstract** : The present invention relates to farming system for mollusc or the like in waters comprising: a plurality of floating rafts (100); and a platform frame (200) built on top of the floating rafts (100); characterised in that a plurality of isles (300) built on the platform frame (200); a plurality of poles (400) erected alongside the isles (300), and beams (500) connecting the poles (400); wherein a plurality of farming baskets (600) housing the mollusc, tied by ropes to the beams (500), and the baskets (600) are soaked in the water to grow the mollusc inside. The above provision is advantageous as the mollusc bred in the basket of the system are safe from external extreme conditions and threats. The present invention also prevents the farmers from injuring themselves during farming as the ropes are tied to the beam; same if not higher than the height of the farmers, hence the farmers need not to bend over to pull the baskets out of water. Most illustrative figure is FIGURE 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002667

(22) **Filing Date** : 07 May 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Roswanira Binti Ab. Wahab ; Teo Hwee Li ; Mohamad Hamdi Bin Zainal Abidin ; Mark Lee Wun Fui ; Fahrul Zaman Bin Huyop

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

(54) **Title** : A Method For Extracting Cellulose And Lignin From Oil Palm Leaves

(57) **Abstract** : The present invention relates to a method for extracting cellulose and lignin from oil palm leaves, the method comprising the steps of providing oil palm leaves, grinding the oil palm leaves to obtain a powder, mixing the powder in a solution comprising choline chloride and lactic acid to obtain a first mixture, homogenizing the first mixture by means of ball milling to obtain a slurry, wherein the ball milling is performed using milling balls and the first mixture at a mass ratio of 15:1 to 30:1, filtering the slurry to obtain a residue containing cellulose and a filtrate containing lignin, mixing the filtrate with water to obtain a second mixture, and centrifuging the second mixture to obtain a lignin precipitate. The method of the present invention provides cellulose and lignin yield of about 85.83% and about 35.23% respectively, along with an enhancement in cellulose crystallinity from about 19.09 to 47.28%. (No illustration for abstract)

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024002670

(22) **Filing Date** : 07 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Fabian Teja Bögershausen

(72) **Inventor(s)** : Fabian Teja Bögershausen

(74) **Agent** : Tan Hing Hong C/O Ip Gennesis Sdn Bhd

(54) **Title** : A System For Enabling Dialogue Generation Based On Text Input

(57) **Abstract** : The present invention discloses a system (1) for enabling dialogue generation from text input that comprises at least a data preparation module (11), at least a summarizing module (12), at least an analysing module (13) and at least an interaction module (14). The system (1) utilizes several large language models to run the summarizing module (12), an analysing module (13) and an interaction module (14). Most illustrative figure: Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002689

(22) **Filing Date** : 08 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Putra Science Park, Universiti Putra Malaysia

(72) **Inventor(s)** : Nor Yasmin Binti Abd Rahaman

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

(54) **Title** : A Continuos Chicken Cell Line For Detecting Avian Viral-Diseases And Method Of Making The Same

(57) **Abstract** : The present invention relates to a continuous chicken cell line for detecting avian viral-diseases comprising a continuous chicken cell line for detecting avian viral-diseases comprising: 1 x 106 cells/mL chicken bone marrow derived dendritic cell (chBM-DCs); 1:1 viral vector containing selected gene; and 1% antibiotic. The present invention provides an immortalized chBM-DCs cell-line that can be effectively use to study diseases related to poultry especially viral diseases and it will serve as an efficient choice for virus propagation and diagnostic purposes. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002696

(22) **Filing Date** : 08 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Te Connectivity Solutions Gmbh

(72) **Inventor(s)** : Rizwan Khan ; Kokjiunn Ng

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

(54) **Title** : Widebeam Multiband Antenna

(57) **Abstract** : An antenna includes a radome having walls at a top, bottom, front, rear, first side, and second side forming a chamber that receives an antenna assembly. The antenna assembly includes a multiband antenna element and a reflector spaced from the antenna element and facing the antenna element. The multiband antenna element includes a high band antenna with high band radiating arms and a low band antenna with low band radiating arms. The reflector includes a main reflector panel, front and rear reflector wings, main sidewalls on opposite sides of the main reflector panel, front and rear sidewalls on opposite sides of the front and rear reflector wings, and forward and rearward inner walls at the interfaces of the main reflector panel and the front and rear reflector wings.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002697

(22) **Filing Date** : 08 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Petroliam Nasional Berhad (Petronas) ; Universiti Kebangsaan Malaysia

(72) **Inventor(s)** : Siti Nur Amira Binti Shaffee ; Nur Azimah Abd Samad ; Zamzila Kassim ; Rozan Binti Mohamad Yunus ; Ng Wei Shi

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

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

(57) **Abstract** : The invention relates to a method for producing a catalyst, in particular for use in water electrolysis. The catalyst prepared from nickel, iron and/or cobalt precursors via hydrothermal synthesis is utilised in the membrane electrode assembly for anion exchange membrane water electrolysis. Figures 1A and 1B

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002733

(22) **Filing Date** : 09 May 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Vasantha Kumari Neela ; Surajo Adamu

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

(54) **Title** : Indirect Immunofluorescent Antibody (Ifa) Assay For Detecting Anti-Leptospira Antibody Of Patient Encompassing Both Early And Acute Stages Of Leptospirosis And Methods Thereof

(57) **Abstract** : The present invention discloses an indirect immunofluorescent antibody, IFA, assay for detecting an anti-Leptospira antibody of a patient encompassing both early and acute stages of leptospirosis and methods thereof. The indirect IFA assay comprises a multi-antigen system comprising serovars of Leptospira spp. including Leptospira biflexa serovar Patoc, L. interrorgans serovars Australis, Autumnalis, Copenhageni, Grippotyphosa, and Sarawak; a primary antibody comprising a serum collected from preserved samples diagnosed by a predetermined test from subjects with acute leptospirosis; and a secondary antibody comprising an immunoglobulin G, IgG, antibody and an immunoglobulin M, IgM, antibody.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002737

(22) **Filing Date** : 09 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Monash University Malaysia

(72) **Inventor(s)** : Michelle Yap Khai Khun ; Rupany Selvam ; Tan Hock Siew

(74) **Agent** : Timothy Siaw Yean Hwa C/O Shearn Delamore & Co.

(54) **Title** : Aptamer-Based Antibacterial Agent

(57) **Abstract** : The present invention aiming to prevent Pseudomonas aeruginosa growth and colonisation in wounds using aptamer. The present invention comprises aptamers as the novel ingredient. The aptamers selected using a technique of Hybrid-Systematic evolution of ligands by exponential enrichment, known as (hybrid-SELEX). Only aptamers that are specific to Pseudomonas aeruginosa were selected through this process. After carrying out multiple selection processes through both lab experiments and bioinformatics, we identified four aptamers that bind and exhibit antibacterial effects against Pseudomonas aeruginosa. This is the first aptamer-based antibacterial agent to treat Pseudomonas aeruginosa wound infection. Figure 3.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002743

(22) **Filing Date** : 09 May 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Sarani Zakaria ; Mohd Shaiful Bin Sajab ; Amalia Binti Zulkifli ; Chia Chin Hua

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

(54) **Title** : A Slow Release Fertilizer

(57) **Abstract** : The present invention relates to a slow release fertilizer from biodegradable materials that minimize the environmental problems and method of preparing the slow release fertilizer. The slow release fertilizer comprises of kenaf polyurethane foam with modified Empty Fruit Bunch fiber (KPFs-EFB) and a fertilizer. Advantageously, the slow release fertilizer has a closed cell structure which reduced the fertilizer release upon contract with the water and prevented leaching issues from developing. Most illustrative Figure is Figure 1.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002747

(22) **Filing Date** : 10 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Malaysian Palm Oil Board (Mpob) ; Universiti Teknologi Mara (Uitm)

(72) **Inventor(s)** : Nahrul Hayawin Binti Zainal ; Noorshamsiana Binti Abdul Wahab ; Siti Nur Liyana Binti Mamauod ; Muhamad Haziq Bin Mohd Fadzli ; Nur ‘Aisyah Ar-Raudhoh Binti Mohammad Tahar

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

(54) **Title** : A Rubber Composite And A Method For Producing Thereof

(57) **Abstract** : The present invention relates to a rubber composite comprising a blend of a rubber elastomer comprising 100 phr of natural rubber, a filler derived from an oil palm-based material selected form carbonized palm kernel shell or activated palm kernel shell, the filler present in an amount ranging from 1 phr to 10 phr of the rubber elastomer and a mixture of compounding additives. The present invention also relates to a method for producing a rubber composite for use in the manufacture of a rubber sheet. (The most illustrative figure: FIG. 1)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002768

(22) **Filing Date** : 10 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Ps Global Sdn Bhd

(72) **Inventor(s)** : Chu Ting Lih ; Ng Kim Fui

(74) **Agent** : Timothy Siaw Yean Hwa C/O Shearn Delamore & Co.

(54) **Title** : Apparatus For Packaging Fertilizer

(57) **Abstract** : The present invention relates to an apparatus (10) for packaging fertilizer. The apparatus (10) includes a plurality of dosing units (101), a conveyor assembly (103), a packaging-forming assembly (105), and a sealing unit (107). The apparatus is operated by a single shaft system (201) that links to the mechanisms of the dosing units (101), conveyor assembly (103), packaging forming assembly (105), and sealing unit (107) for actuating the dosing units (101), conveyor assembly (103), packaging forming assembly (105), and sealing unit (107). The shaft system (201) is in the form of a single linking shaft that span across the apparatus (10). The shaft may include at least a gear or a gearing system with a linkage for actuating one or more corresponding components or mechanisms. The mechanisms of the dosing units (101), conveyor assembly (103), packaging forming assembly (105), and sealing unit (107) include at least a gearing system and at least a mechanical linkage. The most illustrative drawing: Fig. 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002772

(22) **Filing Date** : 11 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Nur Faraihan Binti Zulkefli

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

(74) **Agent** : NONE

(54) **Title** : Eight-Legged Spider Robot

(57) **Abstract** : The present invention is generally related to the method movement mimicking the spider movement in the nature. The eight-legged spider is capable in maintaining the balance while walking, turning and standing in various road conditions. The present invention comprises at least one body frame (11), one breadboard (12), one NodeMCU (13), one battery (14), ten servomotors (15) and eight limbs (16). The major dimensions of eight-legged spider robot (10) are characterized by length, L (11), width, W, (11) and height, H, (11)(16). There are no specific correlation or relationship between these dimensions; their values are adjusted according to the movement on various road conditions.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024003766

(22) **Filing Date** : 25 June 2024

(30) **Priority Date** : 08 May 2024

(71) **Applicant(s)** : Elite Material Co., Ltd.

(72) **Inventor(s)** : Hsieh, Chen-Yu

(74) **Agent** : Oon Yen Yen C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Resin Composition And Article Made Therefrom

(57) **Abstract** : A resin composition is provided, comprising a vinyl group-containing resin and a prepolymer. The prepolymer is made from a mixture by a prepolymerization reaction, and the mixture comprises a compound represented by Formula (1) and a compound represented by Formula (2). Also, an article made from the resin composition is provided, comprising a prepreg, a resin film, a laminate or printed circuit board. Formula (1) Formula (2)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024003826

(22) **Filing Date** : 27 June 2024

(30) **Priority Date** : 08 May 2024

(71) **Applicant(s)** : Jentech Precision Industrial Co., Ltd.

(72) **Inventor(s)** : Chiang Chun-Yi ; Chiu Yi-Sheng ; Chang Chiao Hsiang

(74) **Agent** : Fiona Teresa Jeffrey C/O Marks & Clerk (Malaysia) Sdn. Bhd.

(54) **Title** : Method Of Manufacturing Heat Dissipation Module

(57) **Abstract** : A method of manufacturing heat dissipation module is provided. The method includes: providing a main body; disposing a thermal interface material (TIM) layer on the main body; applying a first pressure to a surface of the TIM layer away from the main body in stages regionally; and applying a second pressure to an entire portion of the surface at a same time. Fig. 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024007130

(22) **Filing Date** : 11 December 2024

(30) **Priority Date** : 11 May 2024

(71) **Applicant(s)** : Eve Power Co., Ltd.

(72) **Inventor(s)** : Li, Weibo ; Chen, Liquan ; Su, Bin ; Chen, Wei ; Yuan, Dingding ; He, Wei ; Liu, Jincheng

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

(54) **Title** : Preparation Methods Of Thermally Composited Laminated Cells And Thermally Composited Laminated Cells

(57) **Abstract** : ABSTRACT PREPARATION METHODS OF THERMALLY COMPOSITED LAMINATED CELLS AND THERMALLY COMPOSITED LAMINATED CELLS A preparation method of a thermally composited laminated cell and a thermally composited laminated cell are provided. The preparation method includes: preparing a plurality of first electrode plate groups and a plurality of second electrode plate groups, each of the first electrode plate groups includes a plurality of first units, each of the second electrode plate groups includes a plurality of second units. Each of two outermost sides of the first unit is provided with a negative electrode plate, and each of two outermost sides of the second unit is provided with a positive electrode plate. Providing a first separator, and assembling the plurality of first electrode plate groups, the plurality of second electrode plate groups and the first separator to prepare a composite cell group. Cutting the composite cell group to prepare a plurality of thermally composited laminated cells.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024007526

(22) **Filing Date** : 26 December 2024

(30) **Priority Date** : 30 April 2024

(71) **Applicant(s)** : Dongguan Ucp Stencil Co., Ltd.

(72) **Inventor(s)** : Xiangbin Zhang ; Jiaqi Zhang

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

(54) **Title** : Composite Engraving-Protecting Stencil Rubber

(57) **Abstract** : ABSTRACT COMPOSITE ENGRAVING-PROTECTING STENCIL RUBBER The present invention relates to the technical field of engraving stencils, and provides composite engraving-protecting stencil rubber, including a flat rubber sheet and a colored carrier film; wherein the surface of the flat rubber sheet is perforated by first artistic engraving to form a hollow pattern or character; the colored carrier film is connected with the bottom surface of the flat rubber sheet to form a first composite stencil, and forms a color difference from the flat rubber sheet; the flat rubber sheet is fixed to the colored carrier film during the first artistic engraving, and an engraving depth is kept above the upper surface of the colored carrier film; the colored carrier film is processed by second artistic engraving when fixed to a to-be-engraved flat body, and a color difference is formed between the colors of the colored carrier film and the to-be-engraved flat body; and the colored carrier film is penetrated by the second artistic engraving following the hollow pattern or character as an engraving path to form a pattern or character the same as the hollow pattern or character on the to-be-engraved flat body. In the present invention, deformation of the flat rubber sheet during engraving is avoided, the visual recognition is improved, and the graving accuracy is greatly improved.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024007543

(22) **Filing Date** : 26 December 2024

(30) **Priority Date** : 07 May 2024

(71) **Applicant(s)** : Zhejiang Leapmotor Technology Co., Ltd

(72) **Inventor(s)** : Jiang, Zhou ; Yang, Fang ; Yu, Fengqiao ; Gong, Jing

(74) **Agent** : Timothy Siaw Yean Hwa C/O Shearn Delamore & Co.

(54) **Title** : Noise Reduction Wheel And Vehicle

(57) **Abstract** : The present invention relates to the technical field of wheels, and specifically discloses a noise reduction wheel and a vehicle. The noise reduction wheel comprises a rim and a sound-absorbing cotton component. The sound-absorbing cotton component is pasted on an outer circumferential surface of the rim, and an outer circumferential surface of the sound-absorbing cotton component is provided with a plurality of sound-absorbing grooves. Specifically, by pasting the sound-absorbing cotton component on the rim, during noise vibration, friction is generated with a pore wall surface of inner pores of the sound-absorbing cotton component to convert sound energy into heat energy, so that the effect of noise reduction can be achieved, the pasting process is simplified, and the pasting efficiency is improved. In some embodiments, the surface area of the sound-absorbing cotton component can be increased, thereby increasing the sound-absorbing area of pores, and improving the noise reduction effect. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024007554

(22) **Filing Date** : 26 December 2024

(30) **Priority Date** : 30 April 2024

(71) **Applicant(s)** : Visco Vision Inc.

(72) **Inventor(s)** : Yu-Yan Wang ; Ying-Yen Chen

(74) **Agent** : Loi Choi Yoke

(54) **Title** : Myopia Control Contact Lens

(57) **Abstract** : A myopia control contact lens (10) includes a central correction area (A1), an accommodative regulation area (A2) and a defocus area (A3). The central correction area (A1) provides a predetermined diopter. The accommodative regulation area (A2) surrounds the central correction area (A1), the accommodative regulation area (A2) has a first diopter distribution with N spherical aberration changes in a radial direction (Dr), and N is a positive integer. The defocus area (A3) surrounds the accommodative regulation area (A2), and the defocus area (A3) has a second diopter distribution in the radial direction (Dr). A maximum diopter of the second diopter distribution is obtained by adding a defocus variable to the predetermined diopter, and the defocus variable satisfies the following equation: Y=a*X2+b*X+c, where X is the predetermined diopter, Y is a defocus variable, a is a first coefficient, b is a second coefficient, c is a constant, a and b range from 0 to 5, and c ranges from 0.5 to 15. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025000898

(22) **Filing Date** : 06 February 2025

(30) **Priority Date** : 07 May 2024

(71) **Applicant(s)** : Shenzhen Mingtang New Energy Technology Co., Ltd.

(72) **Inventor(s)** : Wujun Zeng ; Yingjun Diao ; Jiabin Fu ; Mingxiang Luo ; Zhiru Li ; Jun Wang

(74) **Agent** : Naidu A/L Appanan C/O Mahel Naidu & Associates

(54) **Title** : Truck Ignition Starting Apparatus

(57) **Abstract** : The invention belongs to the field of circuit protection technology and relates to a truck ignition starting apparatus, including: a shunt resistor R1 (10), a current detection module (11), a discharging MOS module (12), a current-limiting charging module (13), a charging MOS module (14), an AFE control chip (15), an MCU control chip (16), a battery positive and negative output module (17), and an external capacitor module (18). The AFE control chip (15) is connected to a positive terminal of a cell, the current detection module (11), the discharging MOS module (12), the charging MOS module (14), and the MCU control chip (16) separately, the current detection module (11) is also connected to the shunt resistor (10), the discharging MOS module (12) is also connected to the shunt resistor (10), the charging MOS module (14), and the current-limiting charging module (13) separately, the current-limiting charging module (13) is also connected to the battery positive and negative output module (17), and the battery positive and negative output module (17) is also connected to the external capacitor module (18). A current-limiting charging part and an external large capacitor are added, and the current-limiting part can limit a magnitude of a charging current when a cell is at high voltage, thereby protecting the cell.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025000942

(22) **Filing Date** : 10 February 2025

(30) **Priority Date** : 30 April 2024

(71) **Applicant(s)** : Eve Energy Storage Co., Ltd.

(72) **Inventor(s)** : Liu,Jianbo ; Zhu,Yuan ; Yi,Haohao ; Zhuo,Wei ; Du,Senyao

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

(54) **Title** : Flow Distribution Assembly And Battery Rack

(57) **Abstract** : A flow distribution assembly (300) and a battery rack (10, 30, 50) are provided. The flow distribution assembly (300) includes a mounting component (320) and a flow distribution component (100, 310, 500). The flow distribution component (100, 310, 500) is provided with a flow guide hole (130, 315). The flow distribution component (100, 310, 500) is connected to the mounting component (320), and is capable of rotating relative to the mounting component (320) to change a flow direction of a medium distributed through the flow guide hole (130, 315). Fig 12.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001060

(22) **Filing Date** : 14 February 2025

(30) **Priority Date** : 01 May 2024

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

(72) **Inventor(s)** : Kenji Saito ; Yugo Nishikawa ; Shiho Tanaka

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

(54) **Title** : Vehicle Control Device

(57) **Abstract** : A vehicle control device (10) includes: brake control means (10-2) for performing brake control based on the target acceleration; and control means (10-1) for causing the own vehicle following a stopped proceeding vehicle to stop at a target stop position by the brake control. The control means (10-1) reduces the target acceleration when a first condition is satisfied, the first condition representing such a condition that the proceeding vehicle has been stopped and a road surface gradient on which the own vehicle travels has a predetermined value or more; and the own vehicle is stopped at the target stop position by the brake control when a second condition is satisfied, the second condition representing such a condition that a difference between an actual inter-vehicle distance between the proceeding vehicle and the own vehicle and a distance to the target stop position of the own vehicle falls below a predetermined value. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001099

(22) **Filing Date** : 17 February 2025

(30) **Priority Date** : 03 May 2024

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

(72) **Inventor(s)** : Chien, Bo-Zih ; Cheng, Yu-Che

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

(54) **Title** : Smartphone Inspection Device

(57) **Abstract** : A smartphone inspection device comprises: a main body extending along a height direction, wherein the main body comprises: a first inclined surface formed at an end of the main body; and an inspection space formed inside the main body and communicated with the first inclined surface, wherein the inspection space comprises: a second inclined surface formed adjacent to the first inclined surface; and a third inclined surface formed corresponding to the first inclined surface and formed adjacent to the second inclined surface; a lid deposited on the first inclined surface; a push bar movably deposited inside the main body and deposited corresponding to the second inclined surface; and a camera assembly deposited in the inspection space and deposited corresponding to the lid. Fig 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002071

(22) **Filing Date** : 04 April 2025

(30) **Priority Date** : 08 May 2024

(71) **Applicant(s)** : Grabtaxi Holdings Pte. Ltd.

(72) **Inventor(s)** : Zhang Nan ; Chang Sun ; Yibo Ji ; Tai Shao-Heng ; Tang Zijian ; Yow Yik Shuen

(74) **Agent** : Chew Kherk Ying C/O Wong & Partners

(54) **Title** : A Computer-Implemented Method, And A Server

(57) **Abstract** : A system 100 comprising: a communication server 102; at least one user communication device 104 having an associated user and configured to initiate a booking which includes a booking pickup location; at least one driver communication device 106 having an associated driver vehicle and configured to provide driver vehicle location data; and communication network equipment 108 configured to establish communication with the communications server 102, the at least one user communication device 104, and the at least one driver communication device 106; wherein the communications server 102 comprises at least one processor(s) 116, at least one memory 118, the server 102 being configured, under control of one or more of the at least one processor(s) 116, to execute instructions stored in one or more of the at least one memory 118 to: cluster the proposed booking locations and driver vehicle locations into batches according to an estimated time of arrival between each vehicle and adjacent proposed bookings; cluster a respective batch into further batches if the respective batch has a number of bookings over a predetermined threshold, and allocate the proposed bookings and the available vehicles within each batch separately. A method, a server and various devices are also disclosed. (Fig. 2)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002496

(22) **Filing Date** : 23 April 2025

(30) **Priority Date** : 08 May 2024

(71) **Applicant(s)** : Innovex International, Inc.

(72) **Inventor(s)** : Todd L. Scaggs ; John Stepchinsky ; John Trahan ; Gregory K. Norwood ; Adam Forness ; David A. Scantlebury ; Andrew B. Mitchell

(74) **Agent** : Fiona Teresa Jeffrey C/O Marks & Clerk (Malaysia) Sdn. Bhd.

(54) **Title** : Systems And Methods For Rigidizing A Seal

(57) **Abstract** : A system includes a seal assembly configured to retain a casing hanger within a wellhead. The seal assembly includes: a main body including at least one tapered surface on an upper end thereof; a lock ring coupled to the main body and configured to expand radially outward into a profile on an inner diameter of the wellhead; and a cam ring disposed above the main body and having at least one tapered surface on a lower end thereof, the at least one tapered surface of the cam ring interfacing with the at least one tapered surface of the main body such that rotation of the cam ring in a first direction with respect to the main body causes the lock ring to move axially upward.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002603

(22) **Filing Date** : 28 April 2025

(30) **Priority Date** : 01 May 2024

(71) **Applicant(s)** : Canon Kabushiki Kaisha

(72) **Inventor(s)** : Akifumi Komukai

(74) **Agent** : Timothy Siaw Yean Hwa C/O Shearn Delamore & Co.

(54) **Title** : Substrate Processing Method, Substrate Processing Apparatus, And Article Manufacturing Method

(57) **Abstract** : A substrate processing method includes performing prealignment of a substrate, and performing fine alignment of the substrate after the performing the prealignment, wherein the performing the prealignment includes calculating a plurality of amounts of positional deviation of the substrate in parallel by a plurality of methods, and the performing the fine alignment includes deciding a detection range of a mark formed on the substrate based on the plurality of calculated amounts of positional deviation. (Fig. 1)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002654

(22) **Filing Date** : 30 April 2025

(30) **Priority Date** : 30 April 2024

(71) **Applicant(s)** : Just Dimension Pte Ltd

(72) **Inventor(s)** : Lim Yong Ann, Jeffrey

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

(54) **Title** : Pipe Assembly And Method Of Fitting A Pipe Assembly

(57) **Abstract** : A pipe assembly (100) and a method (300) of fitting a pipe assembly (100) are disclosed. The pipe assembly (100) includes first and second pipes (110,120). First and second flange collars (130,140) each comprising a circumferential lip (132,142) and defining a flare cavity (134,144) is joined to an end of the respective pipe (110,120). A pipe lining material (150) is formed on internal surfaces of the pipes (110,120) and flared out into the flare cavities (134,144). A flange assembly (160) at the ends of the pipes (110,120) couples the pipes (110,120) to each other. The flange assembly (160) is configured to couple the flange collars (130,140) towards each other and force physical contact between the circumferential lips (132,142), thereby compressing the pipe lining material (150) in the flare cavities (134,144) to seal the pipe lining material (150) in the flare cavities (134,144).

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002711

(22) **Filing Date** : 02 May 2025

(30) **Priority Date** : 06 May 2024

(71) **Applicant(s)** : Semtek Corporation Co., Ltd.

(72) **Inventor(s)** : Bo Long Lin

(74) **Agent** : Caroline Anne Francis Xavier Money C/O Ramrais & Partners

(54) **Title** : Method For Cleaning Gaps Between Semiconductor Chips

(57) **Abstract** : A method for cleaning gaps between semiconductor chips, which is capable of penetrating into each gap between chips to perform thorough cleaning, thereby improving cleaning effectiveness and efficiency while reducing cleaning time; the method is used for cleaning the gaps of a plurality of semiconductor chips having solder flux fixed on a substrate, with an edge path formed around the periphery and a checkerboard-shaped interior path formed within after dicing; the method comprises the following steps: Step 1: cleaning the gaps according to the cleaning path; repeating Step 1 until all gaps are cleaned; the movement of the cleaning path is zig-zag shaped to clean the gaps; in Step 1, a fluidic nozzle is used for cleaning. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002712

(22) **Filing Date** : 02 May 2025

(30) **Priority Date** : 06 May 2024

(71) **Applicant(s)** : Semtek Corporation Co., Ltd.

(72) **Inventor(s)** : Bo Long Lin ; Hsin Chien Chang

(74) **Agent** : Caroline Anne Francis Xavier Money C/O Ramrais & Partners

(54) **Title** : Method For Directional Cleaning Of Semiconductor Chips

(57) **Abstract** : A method for directional cleaning of semiconductor chips, capable of penetrating into each gap between chips to perform thorough cleaning, thereby improving cleaning efficacy and efficiency while reducing cleaning time; the method comprises the following steps: Step 1: positioning at least two fluidic nozzles each aligned with a gap of a chip within a cleaning area; Step 2: moving the nozzles synchronously along the chip arrangement direction to clean the gaps; Step 3: upon completion of cleaning the chip gaps, terminating the cleaning if no adjacent cleaning area is present, or otherwise moving the nozzles synchronously to the adjacent cleaning area and realigning them with the chip gaps therein; and Step 4: repeating Steps 2 and 3 until all chip gaps are cleaned; wherein the nozzles used in each step are fluidic nozzles. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002713

(22) **Filing Date** : 02 May 2025

(30) **Priority Date** : 06 May 2024

(71) **Applicant(s)** : Semtek Corporation Co., Ltd.

(72) **Inventor(s)** : Bo Long Lin ; Hsin Chien Chang

(74) **Agent** : Caroline Anne Francis Xavier Money C/O Ramrais & Partners

(54) **Title** : Method For Tilted Cleaning Of Semiconductor Chips

(57) **Abstract** : A method for directional cleaning of semiconductor chips, capable of penetrating each gap between chips for thorough cleaning, thereby improving cleaning effectiveness and efficiency while reducing cleaning time; the method comprises the following steps: Step 1: positioning at least two fluidic nozzles each aligned with a gap of a chip within a cleaning area; Step 2: moving the nozzles synchronously along the arrangement direction of the chips to clean the gaps; Step 3: upon completion of cleaning the chip gaps, terminating the cleaning if no adjacent cleaning area is present, or otherwise moving the nozzles synchronously to the adjacent cleaning area and realigning them with the chip gaps therein; and Step 4: repeating Steps 2 and 3 until all chip gaps are cleaned; wherein the nozzles used in each step are fluidic nozzles. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002714

(22) **Filing Date** : 02 May 2025

(30) **Priority Date** : 06 May 2024

(71) **Applicant(s)** : Semtek Corporation Co., Ltd.

(72) **Inventor(s)** : Bo Long Lin ; Hsin Chien Chang ; Sen Tai Wang

(74) **Agent** : Caroline Anne Francis Xavier Money C/O Ramrais & Partners

(54) **Title** : Method For Cleaning Semiconductor Chips

(57) **Abstract** : A method for cleaning semiconductor chips that employs process water at a temperature not exceeding 40 °C to gently yet effectively remove contaminants, while reducing thermalstress damage and chemicalreaction risks to the chips, and substantially lowering energy consumption and cost. The method comprises: Step 1: placing a workpiece to be sprayed, the workpiece including at least one substrate and multiple chips arranged with gaps therebetween; and Step 2: positioning at least one fluidic nozzle aimed at the gaps of the chips for cleaning, wherein the cleaning liquid is process water below 40 °C, and wherein the nozzle may be tilted to adjust its angle toward the gaps. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002720

(22) **Filing Date** : 02 May 2025

(30) **Priority Date** : 03 May 2024

(71) **Applicant(s)** : Onesubsea Ip Uk Limited

(72) **Inventor(s)** : Joseph Allan Nicholson

(74) **Agent** : Soo Ee Lin C/O Spruson & Ferguson (M) Sdn. Bhd.

(54) **Title** : Pressure Compensated Feedthrough Assembly

(57) **Abstract** : A receptacle for a downhole system includes a pressure seal for isolating a first pressure and a second pressure, and a transmission pin passes through the pressure seal. A pressure compensation chamber is positioned within the receptacle between the first pressure and the second pressure and has a chamber pressure sealed from the first pressure and the second pressure. The transmission pin is partially positioned in the pressure compensation chamber, and a pressure compensation device is positioned in the pressure compensation chamber for equalizing the chamber pressure with the first pressure. Fig. 4-1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002781

(22) **Filing Date** : 06 May 2025

(30) **Priority Date** : 08 May 2024

(71) **Applicant(s)** : Swancor Innovation & Incubation Co., Ltd.

(72) **Inventor(s)** : Huang, Yun-Wen ; Wang, Meng-Wei

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

(54) **Title** : Method For Manufacturing Unsaturated Polyester Resin

(57) **Abstract** : A method for manufacturing an unsaturated polyester resin includes alcoholysis step, etherification step, condensation step and dilution step as follows. In alcoholysis step, a polycarbonate, a diol compound and an organic alkaline catalyst are mixed and heated to an alcoholysis temperature to obtain a first mixture. In etherification step, a carbonate compound is added to the first mixture and the first mixture and the carbonate compound are maintained at an etherification temperature to obtain a second mixture. In condensation step, the second mixture is cooled and a dianhydride or diacid monomer is added, and the second mixture and the dianhydride or diacid monomer are heated to a condensation temperature to obtain a third mixture. In dilution step, the third mixture is cooled to a dilution temperature, and a styrene or acrylic monomer is added to dilute it to a predetermined solid content to obtain an unsaturated polyester resin.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002798

(22) **Filing Date** : 06 May 2025

(30) **Priority Date** : 07 May 2024

(71) **Applicant(s)** : Teradyne, Inc.

(72) **Inventor(s)** : Tushar Gohel ; Zachary Farrer

(74) **Agent** : Yvonne Ong Toon Mein C/O Raja, Darryl & Loh

(54) **Title** : Analyzing Bundles Of Wires

(57) **Abstract** : An example system is configured to detect a fault in a bundle of wires. The bundle of wires include a first wire and a second wire. The system includes a first driver that is electrically connectable to, and electrically disconnectable from, the first wire; a second driver that is electrically connectable to, and electrically disconnectable from, the second wire; and a control system to control the first driver to electrically connect to the first wire and to output a signal to the first wire, to control the second driver to electrically connect to the second wire and to drive a static voltage to the second wire to enable the second wire to act as a signal return for the first wire, and to detect a fault in the first wire based on a reflection of the signal on the first wire.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002830

(22) **Filing Date** : 07 May 2025

(30) **Priority Date** : 09 May 2024

(71) **Applicant(s)** : Teradyne, Inc.

(72) **Inventor(s)** : Timothy Cunningham ; Anthony Suto ; Daniel Harari ; Aidan Pulaski

(74) **Agent** : Yvonne Ong Toon Mein C/O Raja, Darryl & Loh

(54) **Title** : Testing A Circuit Board

(57) **Abstract** : An example system is configured to test an electrical connection in a circuit board. The circuit board includes a first electrically-conductive structure for receiving test signals, second electrically-conductive structures for mounting components, and electrically-conductive traces between the first electrically-conductive structure and the second electrically-conductive structures. The system includes a pin assembly including an electrically-conductive pin that is configured to physically contact the first electrically-conductive structure to apply an electrical signal to the first electrically-conductive structure; and a sensor configured to wirelessly couple to a second electrically-conductive structure. The sensor is configured to receive, through the wireless coupling, an electrical response that is based on the electrical signal through an electrically-conductive trace on the circuit board.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002832

(22) **Filing Date** : 08 May 2025

(30) **Priority Date** : 08 May 2024

(71) **Applicant(s)** : Mi Equipment (M) Sdn Bhd

(72) **Inventor(s)** : Ong Kah Peng ; Lam Kah Yeen

(74) **Agent** : Wong Jan Ping C/O Jayp Intellectual Sdn Bhd

(54) **Title** : Automated Tape Adhesion Measurement Tool

(57) **Abstract** : Disclosed in the present invention is an automated tape adhesion measurement tool, including a wafer frame and a table for moving the wafer frame. The wafer frame is equipped with tape and a wafer, where the wafer is adhered to the top surface of the tape. A movable load cell holder is further included, and one end of the load cell holder is equipped with a pick-up head. The pick-up head is configured to strip the wafer from the tape and is connected to a load cell that measures the force required to strip the wafer/die from the tape, which assists process engineers in more quickly and accurately setting the parameters of the ultraviolet (UV) curing device, thereby improving the efficiency of die pick-up.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025002882

(22) **Filing Date** : 09 May 2025

(30) **Priority Date** : 10 May 2024

(71) **Applicant(s)** : Eve Energy Co., Ltd.

(72) **Inventor(s)** : Ye, Ziling

(74) **Agent** : Tai Foong Lam C/O Gan Partnership

(54) **Title** : Battery Enclosure And Battery Pack

(57) **Abstract** : A battery enclosure in the battery pack includes a liquid cold plate (200), a bottom protective plate (100), and a sealing ring (400). The liquid cold plate (200) includes a first end surface and a second end surface opposite to the first end surface. The second end surface is provided with a first protruding end surface and a second protruding end surface connected to each other and protruding in the direction away from the first end surface. The vertical distance between the first protruding end surface and the second end surface is less than the vertical distance between the second protruding end surface and the second end surface. The bottom protective plate (100) is connected to the second protruding end surface and forms an accommodation space with the first protruding end surface. The sealing ring (400) is clamped in the accommodation space. (Most illustrative figure: FIG. 3)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002887

(22) **Filing Date** : 09 May 2025

(30) **Priority Date** : 09 May 2024

(71) **Applicant(s)** : Sdt Inc.

(72) **Inventor(s)** : Park, Byung Kwon ; Kang, Young Jun ; Lee, Seung Pil ; Lim, Jonggeun

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

(54) **Title** : Signal Generator For Providing Timing Signals For Control Of Quantum Computer Systems

(57) **Abstract** : A signal generator comprising a timer configured to execute a predetermined session N times upon detecting a pulse of a first trigger signal and to output a signal generation start signal having one or more pulses in each said session, and a channel signal generation unit configured to generate a timing signal having one or more pulses upon detecting a pulse of the signal generation start signal.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025003939

(22) **Filing Date** : 30 June 2025

(30) **Priority Date** : 30 April 2024

(71) **Applicant(s)** : Jnd Electronic Technology (Wuhan) Co., Ltd.

(72) **Inventor(s)** : Yu Zhang ; Yun Lu ; Xin Zhang

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

(54) **Title** : Plastic Encapsulated Inductor And Manufacturing Method Thereof And Power Supply Module

(57) **Abstract** : The present application discloses a plastic encapsulated inductor and a manufac-turing method thereof and a power supply module, and relates to the field of power supply devices. The plastic encapsulated inductor includes an inductor assembly, a plas-tic encapsulated component and at least one conductor. The inductor assembly includes a magnetic core and a winding, the plastic encapsulated component is of an integrally formed structure and is disposed around a peripheral side of the magnetic core, and the at least one conductor is arranged on the peripheral side of the magnetic core. The at least one conductor is wrapped by the plastic encapsulated component or is jointly wrapped by the magnetic core and the plastic encapsulated component, and is provided with at least two connecting ends exposed out of surfaces of the plastic encapsulated component and/or the magnetic core.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : UI2024000094

(22) **Filing Date** : 07 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Pejabat Daerah Dan Tanah Kubang Pasu

(72) **Inventor(s)** : Mohd Shazwan Hafiz Bin Mohd Shukri ; Norafiqah Binti Ab Halim ; Fazlyaton Binti Zakaria ; Mohamad Fauzi Bin Sulaiman ; Mohammad Amin Bin Ahmad

(74) **Agent** : NONE

(54) **Title** : Alat Penjilid Buku

(57) **Abstract** : Di dalam pejabat, biasanya terdapat lambakan dokumen yang perlu dijilid untuk tujuan simpanan. Proses kerja penjilidan dokumen kepada bentuk buku yang menggunakan kaedah konvensional iaitu yang menggunakan apit G dan jarum penebuk adalah agak rumit dan mengambil masa yang lebih lama. Selain itu, penggunaan mesin penjilid buku memerlukan kos agak tinggi. Sebuah alat penjilid buku (1) yang terdiri daripada: tapak (2) yang mempunyai ruang dokumen (3) di bahagian atas tapak (2) tersebut; beberapa rod pengimbang (9) yang bersambung secara bersudut tegak pada bahagian atas tapak (2) tersebut; plat pemampat (10) dipasang pada rod penimbang (9) dan berada di atas tapak (2) tersebut; mekanisma penggerak (13) dipasang pada plat pemampat (10) tersebut; dicirikan dengan plat lutsinar (6) dipasang di atas ruang doku men (3) tersebut; tapak (2) yang mempunyai beberapa lubang panduan bawah (7); plat pemampat (10) yang mempunyai beberapa lubang panduan atas (11); dan mekanisma penggerak (13) adalah daripada jenis rod bebenang. [Rajah 2]

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : UI2024002571

(22) **Filing Date** : 02 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Hapm Bestrack Sdn Bhd ; Hapm Consultants Sdn Bhd

(72) **Inventor(s)** : Saidatul Kesuma Dewi Binti Ismail ; Suyanto Bin Osman

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

(54) **Title** : System For Project Management

(57) **Abstract** : The present invention discloses a memory for storing a project management application program when being executed on a data processing system (101), comprising a display unit connected to the data processing system (101) for displaying a project management dashboard module (200) stored in the memory, a procurement management and tracking module (300) for managing an itinerary of goods and resources of the added project (301), a dispute management and tracking module (400) for managing a dispute information arose and progress of the dispute (401), and a document tracking module (500) for registering one or more documents (501) related to the added project. The project management dashboard module (200) generates a project schedule line curve (212) for visualizing the progress of the project in a graph, and a financial schedule line curve (213) for visualizing the money flow of the project over time, for comparing between an actual spending or an allocation against a budget in the financial schedule line curve.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : UI2024002588

(22) **Filing Date** : 03 May 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Mohd Rizuwan Bin Mamat ; Abdul Razak Bin Abdul Rahman ; Azam Shah Mat Rata

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

(54) **Title** : A Modular Floating Structure

(57) **Abstract** : The present invention discloses a modular floating structure (100), characterized in that, the modular floating structure (100) is made up from hollow tubes comprising a frame (101) comprising a top section (101a) and a bottom section (101b) which are connected to each other via a plurality of supporting pillars (101c); a structure supporting beam (102) that is horizontally integrated within the bottom section (101b) configured for strengthening structural integrity of the modular floating structure (100); a plurality of buoyant units (103) that are configured for supporting and sustaining buoyancy of the modular floating structure (100), wherein the plurality of buoyant units (103) are integrated in parallel along with the structure supporting beam (102) within the bottom section (101b); and a plurality of load supporting beams (104) that are perpendicularly integrated on top of the structure supporting beam (102) and the plurality of buoyant units (103). Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : UI2024002709

(22) **Filing Date** : 08 May 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Taylor'S University Sdn Bhd

(72) **Inventor(s)** : Ramsundar Sivasubramanian ; Chockalingam Aravind Vaithilingam

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

(54) **Title** : Green Backsheet Composition For Solar Panel

(57) **Abstract** : The present invention discloses a composition for a backsheet of a solar panel. The composition comprises a plant fibre, a biodegradable polymer, and a plasticiser. The biodegradable polymer includes a polylactic acid. The plasticiser includes vegetable oil that has a smoke point of more than or equal to 150 °C. The backsheet resulting from the mixing of the plant fibre, the biodegradable polymer, and the plasticiser thereof demonstrates improved thermal conductivity that reduces an operating temperature of the solar panel.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002534

(22) **Filing Date** : 30 April 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Pyro X Sdn. Bhd.

(72) **Inventor(s)** : Andrew Ng Kay Lup ; Hee Choi

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

(54) **Title** : An Apparatus For Fire Prevention And Protection

(57) **Abstract** : The present invention relates to an apparatus (1) suitable for fire prevention and protection, the apparatus (1) comprising a fire extinguishing agent (2) packed within a material (3) which melts upon exposure to heat exceeding the melting temperature of the material (3), whereby a fire occurrence triggers the release of the fire extinguishing agent (2) from the material (3) thereby smothering a fire point or a flammable subject (4). (Most illustrative figure: Figure 1)

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