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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.** : PI2022001920

(22) **Filing Date** : 12 April 2022

(30) **Priority Date** : 07 May 2021

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

(72) **Inventor(s)** : Wenjie, Wang

(74) **Agent** : Mohana Murali A/L Kodivel

(54) **Title** : Engine Instrument Based On Can Bus

(57) **Abstract** : An engine instrument based on a CAN bus comprises a main control chip (10), a power supply conversion module (30), a CAN communication module (40), a storage module (50), a display module (60) and a key module (20). The power supply conversion module is connected to the main control chip and can provide a required supply voltage for the main control chip. The CAN communication module is connected to the main control chip and transmits engine operating parameters to the main control chip. The main control chip is connected to the storage module and is able to store and extract data. The display module is connected to the main control chip and can display information according to data sent to it by the main control chip. The key module is connected to the main control chip and can send a trigger signal to the main control chip when acting. The engine instrument can acquire information through the CAN bus of an engine so as to make information displayed on the instrument complete and improve accuracy of the displayed information.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002356

(22) **Filing Date** : 06 May 2022

(30) **Priority Date** : 11 May 2021

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

(72) **Inventor(s)** : Toru Ando

(74) **Agent** : Chew Qi-Guang

(54) **Title** : Charging Controller And Vehicle

(57) **Abstract** : A charging controller (150) carries out charging control of a power storage (130) mounted on a vehicle (50). The vehicle (50) includes a DC charging inlet (110). The charging controller (150) carries out first charging control when a charging cable (42A) which is not a prescribed charging cable (42B) is connected to the DC charging inlet (110) and carries out second charging control when the prescribed charging cable (42B) is connected to the DC charging inlet (110). For example, a time period for ground fault detection carried out during charging of the power storage is set differently between first charging control and second charging control. Alternatively, a response delay margin of a charging command is set differently between first charging control and second charging control.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002058

(22) **Filing Date** : 20 April 2022

(30) **Priority Date** : 14 May 2021

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

(72) **Inventor(s)** : Yoshikazu Suzuki

(74) **Agent** : Patrick Mirandah

(54) **Title** : Workpiece Grinding Method

(57) **Abstract** : A workpiece has a device area and a peripheral area surrounding the device area on a front surface side thereof. A workpiece grinding method includes a groove forming step of performing grinding feed of a grinding unit while a spindle is rotated, and grinding a predetermined area on a back surface side of the workpiece, the predetermined area corresponding to the device area, in a state in which a chuck table holding the workpiece is not rotated, thereby forming a groove on the back surface side, a groove removing step of starting rotation of the chuck table while the spindle is kept rotating, thereby grinding side walls of the groove and removing the groove, and a recess forming step of performing grinding feed of the grinding unit while the spindle and the chuck table are rotated, thereby grinding the predetermined area and forming a recess and a ring-shaped reinforcement part.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002254

(22) **Filing Date** : 28 April 2022

(30) **Priority Date** : 04 May 2021

(71) **Applicant(s)** : Dy-Pack Verpackungen Gustav Dyckerhoff Gmbh

(72) **Inventor(s)** : Andreas Braun

(74) **Agent** : Jyeshta Mahendran

(54) **Title** : Bag For Bulk Material

(57) **Abstract** : A bag for bulk material made of paper and/or other sheet material, having at least one bottom formed in a cross bottom or block bottom folding manner, the bottom fold having two side flaps which are folded about side fold lines extending in the longitudinal direction of the bottom to form the bottom, the side flaps forming an overlap in the closed state, the width of the overlap being a maximum of 10 millimeters, preferably a maximum of 6 millimeters and further preferably a maximum of 4 millimeters.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2021002457

(22) **Filing Date** : 04 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Novozymes A/S

(72) **Inventor(s)** : Yee, Hon Seng

(74) **Agent** : Ong Boo Seng

(54) **Title** : Enzymatic Treatment Of Feedstock For Hvo Production

(57) **Abstract** : The present invention relates to methods of producing oil raw material for HVO production from vegetable oil which has been processed by an enzyme catalysed hydrolysis process and separation to reduce the content of phosphorous.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002484

(22) **Filing Date** : 04 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Mohammed Nadeem Khan

(72) **Inventor(s)** : Mohammed Nadeem Khan

(74) **Agent** : Muhammad Hazif Azlan Bin Ziaudin Ahamed

(54) **Title** : An Incinerator With Catalyst Dispenser

(57) **Abstract** : THE INVENTION RELATES TO AN INCINERATOR WITH CATALYST DISPENSER (16). THE PRESENT INVENTION PROVIDES AN INCINERATOR, COMPRISING A COMBUSTION CHAMBER (10) HAVING A FLOOR, WHEREIN SAID COMBUSTION CHAMBER (10) FURTHER HAVING A CHIMNEY (11) OPPOSITE THE FLOOR OF THE COMBUSTION CHAMBER (10), SAID COMBUSTION CHAMBER FURTHER HAVING AT LEAST A WALL PERPENDICULAR TO THE FLOOR OF SAID COMBUSTION CHAMBER (10); A FIRST INLET (12) CONNECTED TO SAID COMBUSTION CHAMBER (10), WHEREBY SAID FIRST INLET (12) IS ADAPTED TO SUPPLY FUEL IN GAS FORM INTO SAID COMBUSTION CHAMBER (10); A BURNING MEANS (13) AT THE FLOOR OF SAID COMBUSTION CHAMBER (10); A SECOND INLET (14) IN GASEOUS COMMUNICATION WITH SAID BURNING MEANS (13), WHEREBY SAID SECOND INLET (14) IS ADAPTED TO SUPPLY AIR INTO SAID COMBUSTION CHAMBER (10); A STAINLESS STEEL MESH (15) ABOVE SAID BURNING MEANS (13) INSIDE SAID COMBUSTION CHAMBER (10), WHEREIN SAID STAINLESS STEEL MESH (15) IS MOUNTED HORIZONTALLY AT THE WALL OF SAID COMBUSTION CHAMBER (10); CHARACTERIZED IN THAT A CATALYST DISPENSER (16) ABOVE SAID STAINLESS STEEL MESH (15); WHEREIN SAID CATALYST DISPENSER (16) IS MOUNTED HORIZONTALLY AT THE WALL OF SAID COMBUSTION CHAMBER (10); SAID CATALYST DISPENSER (16) IS RETAINING CARBOXYLATES AND POTASSIUM METHOXIDE.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002486

(22) **Filing Date** : 05 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Chen, Wei-Jung

(72) **Inventor(s)** : Chen, Wei-Jung

(74) **Agent** : Tee Lin Yik

(54) **Title** : Racket Shock-Absorbing Device

(57) **Abstract** : ABSTRACT RACKET SHOCK-ABSORBING DEVICE A racket shock-absorbing device (1) comprises: a lower hard seat member (11), disposed at a periphery of a racket frame (21) of a racket (2) and arranged between two single grommets (22) respectively formed with a string hole (211) allowing a string (23) to be disposed, and a top end thereof is disposed with one or more than two protrusions (111), and the lower hard seat member (11) is formed with a recess (112); at least one upper soft pad member (12), disposed on a top end of the lower hard seat member (11), wherein one or more than two buckle slots (121) is disposed inside the upper soft pad member (12) and arranged correspondingly to the one or more than two protrusions (111) of the lower hard seat member (11), the string (23) is crossly disposed and downwardly pressed at a top end defined at a center of the upper soft pad member (12) and arranged correspondingly to the recess (112) of the lower hard seat member (11). Drawing accompanying abstract: FIG. 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002574

(22) **Filing Date** : 10 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : International Islamic University Malaysia

(72) **Inventor(s)** : Assoc. Prof. Dr. Fathilah Binti Ali

(74) **Agent** : Yip Jiun Hann

(54) **Title** : A Method Of Fabricating A Biocomposite Cosmetic Patch

(57) **Abstract** : The present invention relates to a method of fabricating a biocomposite cosmetic patch, comprising the steps of: drying a Polylactic acid (PLA) bead, a phycocyanin powder and an alginate powder (1) at temperature 40 °C for 24 hours; dissolving 3.9 g of PLA beads in 30 mL of chloroform for 4 hours (2) to form a PLA solution (3) with concentration of 13% (w/v); casting PLA solution (3) to a glass plate for 3 hours (4) to form a base layer PLA film (5) ; characterised by: mixing phyocyanin and alginate at weight ratio of 4:6 with 40 mL distilled water at 20 °C for 20 hours (6) to form a phycocyanin- alginate mixture (7) at 2.5 % (w/v) concentration; adding 20 mL of phycocyanin-alginate mixture (7) on to the surface of the base PLA film (5); drying said mixture (7) for 24 hours at room temperature to form phycocyanin-alginate film (8) , whereby the phycocyanin-alginate film (8) is embedded and adhered by intermolecular forces to the base layer of the PLA film (5) forming a biocomposite cosmetic patch (9); removing biocomposite cosmetic patch (5) from the glass plate (10) and drying biocomposite cosmetic patch (11) for 24 hours at room temperature. Drawing accompanying abstract: Figure 1 and 2.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002516

(22) **Filing Date** : 06 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Fazida Hanim Binti Hashim

(74) **Agent** : Norunnuha Binti Datuk Hj. Nawawi

(54) **Title** : A Method For Classifying Oil Palm Fruit Ripeness

(57) **Abstract** : A METHOD FOR CLASSIFYING OIL PALM FRUIT RIPENESS ABSTRACT The present invention relates to a method for classifying oil palm fruit ripeness comprising: preparing oil palm fruitlets (100); characterised in that obtaining Raman spectrum of the oil palm fruit by scanning outer layer of the oil palm fruitlets using Raman spectrometer (200); locating Raman peaks from the obtained Raman spectrum (300); identifying lycopene, β -carotene, lutein and neoxanthin representation from the Raman peaks intensity (400); categorizing the oil palm fruitlets as unripe (500); categorizing the oil palm fruitlets as ripe (600); and categorizing the oil palm fruitlets as over-ripe (700). The present invention demonstrates that the Raman spectroscopy is a rapid, reliable and accurate technique for assessing the ripeness of oil palm fruits. Furthermore, this technique is robust against the effects of lighting and noise caused by moisture. The analysis has shown that β -carotene, lycopene, lutein and neoxanthin are the carotenoids found in the oil palm fruit skin. Most illustrative figure is Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002583

(22) **Filing Date** : 10 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Sime Darby Plantation Intellectual Property Sdn Bhd

(72) **Inventor(s)** : Mohd Rizal Roslan

(74) **Agent** : Pauline Khor Hong Ping

(54) **Title** : Fertiliser Device

(57) **Abstract** : ABSTRACT FERTILISER DEVICE The present invention provides a fertiliser device to hold and discharge fertilisers which is detachably connected to a movable vehicle, the device includes a container (1) to hold the fertilisers, a bin frame (2) to support the container (1) which holds the fertilisers, at least four legs (3) to support weight of the container (1) when the device is raised up to a standing position, at least one lock pin (4) on each leg of the at least four legs (3) to hold or lock the device at a position, at least one discharge door (5) at the bottom of the container (1) to discharge fertilisers via the opening and the closing of the at least one discharge door and at least one shaft hook (6) for the device to connect to or disconnect from the movable vehicle to move from one place to another. (The most illustrative figures: Figures 1 and 2)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021002461

(22) **Filing Date** : 04 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Piya Sae Loo

(72) **Inventor(s)** : Piya Sae Loo

(74) **Agent** : Afiqah Aisyah Binti Suriyadi

(54) **Title** : A Male Undergarment

(57) **Abstract** : The present invention relates to a male undergarment (100) that provides scrotum support to a wearer. The undergarment (100) comprises a main garment member (10), a crotch member (20), a pouch compartment (30), and a cushioning pad (40). The main garment member (10) comprises a front body part (14) and a back body part (15) configured to encircle the wearer's trunk. Upper periphery of the front body part (14) and upper periphery of the back body part (15) define a waist opening (11), while the crotch member (20), lower periphery of front body part (14) and lower periphery of back body part (15) define a pair of thigh openings (12, 13). The pouch compartment (30) is formed in a mid-section of the front body part (14) of the main garment member (10) configured to isolate the wearer's genitals from being in contact with inner thighs and legs of the wearer. The most illustrative drawing: Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021002648

(22) **Filing Date** : 12 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Bong Chih How

(74) **Agent** : Muhammad Irfan Mustaqim Bin Awang

(54) **Title** : Detection Of Diseases Associated With Piper Nigrum (Black Pepper) Through Leaf Images

(57) **Abstract** : The present invention discloses a method for establishing a two-dimensional, 2D, self-organizing map, SOM, suitable for transforming hybrid disease images into transformed images for use in deep learning in detecting diseases prevalence on a leaf of a plant of Piper nigrum (black pepper). The method involves the steps of identifying first leaf regions exhibiting first texture features and second leaf regions exhibiting second texture features associated with a plurality of leaf images; determining image pixel values of the first texture features and the second texture features; referencing by way of labelling the image pixel values to the one or more diseases respectively; projecting the image pixel values onto a candidate 2D SOM representing a signal template; and subjecting the candidate 2D SOM to training using a deep learning model to generate a trained 2D SOM.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002651

(22) **Filing Date** : 12 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Lee Teck Yiet

(74) **Agent** : Mohana Murali A/L Kodivel

(54) **Title** : A Foldable Hanger

(57) **Abstract** : The present invention relates to a foldable hanger (100) comprises a body (102) including a hook (104) at the top, an elongated slit (106), and a perforation (108); a pair of elongated members (110) hinged to the body (102) at the two sides, wherein the pair of elongated members (110) are inclined, when in operation; a pair of linking members (112), when in operation, hinges the pair of elongated members (110) to the body (102) via one or more movable connectors (114); a spring (116) coupled to a coupling element (118), to slidably engage the pair of elongated members (110) with the body at a line of action of the elongated slit, wherein, the spring (116) coupled to the coupling element (118) when in operation, provides flexibility to the pair of elongated members (110), to wigwag when subjected to load and unload.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2021002636

(22) **Filing Date** : 11 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Chandramalar A.V. Muthiah

(74) **Agent** : Christopher Paul Hemingway

(54) **Title** : Functionalized Graphene Oxide As Additive For Non-Polar Fuel

(57) **Abstract** : Described herein is a composition comprising a non-polar fuel and a fuel additive comprising a graphene oxide product functionalised with a plurality of alkylamine groups each having from 10 to 12 carbon atoms additive, a method of preparing said additive and an oxidation process comprising the steps of providing said composition and contacting the composition with an oxidant.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002660

(22) **Filing Date** : 12 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Lee Hooi Chie

(74) **Agent** : Tan Sin Su

(54) **Title** : A System For Classifying Items Through Images To Identify Carbon Footprint

(57) **Abstract** : The present invention relates to a system for classifying items through images to identify carbon footprint in the electronic trading platform. Accordingly, the system (100) includes: i) at least one computer infrastructure with a trading tool operable to provide at least one trading platform for a user (110) to perform an electronic trading; ii) at least one image tool configured for the user (110) to upload trade item image (120) via the computer infrastructure; iii) at least one image matching tool (130) operable to determine a carbon footprint (140) associated with the trade item image (120) or unclassified item for "Others" category (150); iv) at least one carbon saving tool configured to calculate total carbon saving points (170) for the item listed in the trading platform; v) at least one gamification platform by using carbon saving points (170) to promote ethical consumerism; wherein the image matching tool (130) is configured to communicate with a carbon footprint dataset inventory (314) and data matching algorithm (326) to determine the carbon footprint (140) associated with the trade item image (120). It should be noted that the said image matching tool (130) is established through a combination of analyzation of product life cycle and data sourcing of life cycle inventory (310), and an automation process by using image processing and artificial intelligence (AI) machine learning technologies (320); wherein the gamification platform includes the design and development of gamification element (330) to educate and encourage ethical consumerism in the trading platform.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021002655

(22) **Filing Date** : 12 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Norjan Binti Yusof

(74) **Agent** : Afiqah Aisyah Binti Suriyadi

(54) **Title** : A Method To Detect Genes Enhancing Lipid Production Of Chlorella Vulgaris

(57) **Abstract** : The present invention relates to a method to detect genes that enhance lipid production of Chlorella vulgaris (10) under nitrogen stress. The present invention disclosed 14 designated primers which able to detect 7 essential genes that contribute in enhancing lipid production of Chlorella vulgaris. The present invention paves the way for exploiting possible gene modifications in Chlorella vulgaris to be applied in various potential fields such as biofuel production. The most illustrative drawing: Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002654

(22) **Filing Date** : 12 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Kenneth Gerard Pereira

(74) **Agent** : Benjamin John Thompson

(54) **Title** : Customer Loyalty Rewards Method

(57) **Abstract** : The invention relates to a method that mobilizes mass collective action; utilizes current technology; leverages on digital and print media marketing channels; optimizes the utility of Rewards Programs; uses a restricted investment mandate; and uses the attractive feature that the method in itself multiplies the value initially obtained through participation in Rewards Programs, towards the achievement of the goals of a Climate Agreement or a general improvement of the environment. The greatest impediment to the achievement of the abovementioned goals is the securing of the necessary capital that will catalyze the delivery of the objectives. The proposed invention enables the funding that is necessary to be secured, painlessly and urgently. The democratization of the financial responsibility towards the achievement of an improvement to the environment using the mechanism as proposed by the present invention also results in an outcome that financial returns are also a shared benefit.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021003604

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

(30) **Priority Date** : 07 May 2021

(71) **Applicant(s)** : Ensign Infosecurity Pte. Ltd.

(72) **Inventor(s)** : Lee Joon Sern

(74) **Agent** : Pauline Khor Hong Ping

(54) **Title** : A System And Method For Detecting Phishing-Domains In A Set Of Domain Name System (Dns) Records

(57) **Abstract** : ABSTRACT A SYSTEM AND METHOD FOR DETECTING PHISHING-DOMAINS IN A SET OF DOMAIN NAME SYSTEM (DNS) RECORDS This document describes a system and method for detecting phishing-domains, which are used by cyber-attackers to carry out phishing attacks, in a set of Domain Name System (DNS) records, the system comprising a homoglyph phishing domain detection module, a typo-squatting phishing domain detection module, a general phishing domain detection module and an alert module. These modules are configured to collaboratively detect and identify phishing-domains from the set of DNS records using a combination of homoglyph, typo-squatting and general phishing domain techniques. Subsequently, an alert module may be used to correlate the alerts from the various phishing detection modules to discover phishing campaigns occurring in DNS network data. (Most illustrative figure: Figure 1)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022001789

(22) **Filing Date** : 05 April 2022

(30) **Priority Date** : 05 May 2021

(71) **Applicant(s)** : Magnetic Autocontrol GmbH

(72) **Inventor(s)** : Trivunovic, Cvjetko

(74) **Agent** : Boey Weng Choong

(54) **Title** : Pedestrian Barrier And Barrier Device For Such

(57) **Abstract** : The present invention concerns a barrier device (14) for a pedestrian barrier (13) for access control of a secure area, with a base frame (1) with a barrier element (2) which is movable between an open position and a blocking position and is mounted on the base frame (1) so as to be pivotable about a substantially horizontally oriented pivot axis (6), and with a drive device (8) for the barrier element (2) attached to the base frame (1). The barrier element (2) is connected to a return device in order, on failure or malfunction of the drive device (8) or on tripping of an emergency stop function, to move the barrier element (2) into the open position and/or hold it there. The return device consists of a return weight (11) which is dimensioned and mechanically connected by form fit or force fit to the barrier element (2) such that when the drive device (8) is disabled, it moves the barrier element (2) into the open position and/or holds it there under the weight force of the return weight (11).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022001994

(22) **Filing Date** : 15 April 2022

(30) **Priority Date** : 04 May 2021

(71) **Applicant(s)** : Asm Technology Singapore Pte Ltd

(72) **Inventor(s)** : Ding Jiapei

(74) **Agent** : Roshayati Binti Abdul Ghani

(54) **Title** : Flexible Sinter Tool For Bonding Semiconductor Devices

(57) **Abstract** : An apparatus having a seal plate which includes rigid hard portions and one or more flexible soft portions located between the hard portions is used for bonding at least one semiconductor device onto a substrate that is supported on a platform. The seal plate is movable between a first position which is spaced from the substrate and a second position whereat a first side of the seal plate is configured to be in contact with the substrate. A diaphragm covers a second side of the seal plate opposite to the first side. A fluid pressure generator exerts a fluid pressure onto the diaphragm to actuate the diaphragm to compress the one or more soft portions to transmit a bonding force onto the at least one semiconductor device during bonding.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002261

(22) **Filing Date** : 28 April 2022

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

(71) **Applicant(s)** : Shin-Etsu Chemical Co., Ltd.

(72) **Inventor(s)** : Koichi Hirota

(74) **Agent** : Patrick Mirandah

(54) **Title** : Rare Earth Sintered Magnet And Making Method

(57) **Abstract** : A rare earth sintered magnet has a C concentration of 800-1,400 ppm, an O concentration of up to 1,000 ppm, and a N concentration of up to 800 ppm, an average crystal grain size D50 of up to 4.5 μm , and a degree of orientation O_r (%) which is defined by the formula: $O_r = (Br/4\pi Is) * 100$, wherein D50 and O_r meet the relationship: $O_r > 0.7 * D50 + 95$. The sintered magnet shows both high values of Br and H.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002274

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

(30) **Priority Date** : 07 May 2021

(71) **Applicant(s)** : Air Products And Chemicals, Inc.

(72) **Inventor(s)** : Guido Plicht

(74) **Agent** : Charmayne Ong Poh Yin

(54) **Title** : Furnace Atmosphere Control For Lithium-Ion Battery Cathode Material Production

(57) **Abstract** : A method and apparatus for controlling the atmosphere of a multizone calcination (firing) furnace for production of high-quality nickel-rich cathode material for lithium-ion and solid-state batteries. A high-quality oxygen-rich atmosphere is maintained to ensure the quality of the cathode material. An atmosphere control system continuously measures and analyzes the composition of the calcination furnace atmosphere in different zones and adjusts the flowrate of oxygen-rich atmosphere into the furnace to optimize the calcination process.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022001996

(22) **Filing Date** : 15 April 2022

(30) **Priority Date** : 10 May 2021

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

(72) **Inventor(s)** : Yuto Maeda

(74) **Agent** : Patrick Mirandah

(54) **Title** : Grinding Wheel Jig

(57) **Abstract** : A grinding wheel jig includes a bottomed cylindrical grindstone accommodating section that accommodates the annular grindstone section, an annular base accommodating section that is located on a side opposite to a bottom portion of the grindstone accommodating section in a height direction of the grindstone accommodating section, has an outside diameter greater than an outside diameter of the grindstone accommodating section, and is capable of accommodating at least a part of the base, and a plurality of cylindrical bolt accommodating sections provided at bottom portions of the base accommodating sections and each capable of accommodating a head part of a bolt. In the grinding wheel jig, each bolt accommodating section is provided, at a bottom portion thereof, with an opening in which a fastening tool is insertable into the head part of the bolt.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002563

(22) **Filing Date** : 10 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Nurhidayah Binti Samsul Rijal

(72) **Inventor(s)** : Nurhidayah Binti Samsul Rijal

(74) **Agent** :

(54) **Title** : Fire Safety Lock System For Door And Window Grille

(57) **Abstract** : In 2017, according to figures provided by the Fire and Rescue Department of Malaysia, 120 to 150 people were killed each year as a result of the fire disaster. It is said that between 30 to 60 thousand cases of fire have been reported every year. Based on the same statistic, 2400 out of 6000 reported cases occurred in residential areas. Nowadays, most of the residential houses have been permanently installed with a grille for doors and windows for ventilation and safety purposes. However, this building accessory has been one of the factors that caused the occupants trapped during the fire which caused most fatalities. To date, the Ministry of Housing and Local Government has not developed any law enforcement of fire safety prevention systems for residential housing. Currently there is no system that has been adopted to facilitate evacuation activities and rescue processes. Therefore, an initiative is required to help in overcoming this issue. The Fire Safety Lock System is a new invention designed to help facilitate and expedite the process of rescuing victims during a fire. It is specially designed for residential houses. This system is an effort to produce a security lock system that operates automatically in the event of a fire and specially designed to help the Fire and Rescue Department of Malaysia (FRD) to accelerate the evacuation process.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021000452

(22) **Filing Date** : 03 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Chew Bee Kiau

(72) **Inventor(s)** : Chew Bee Kiau

(74) **Agent** :

(54) **Title** : Insole For Open Toe Shoes

(57) **Abstract** : The present invention relates generally to a pair of open-toed shoes. There is a known pair of open-toed shoes with a layer of sponge on the insole of the shoes. However, the sponge eventually gets thinner when small amount of pressure is exerted on it; hence there is no good support to a person's feet when walking. Referring to Figure 1, the present invention discloses a pair of open-toed shoes that includes additional layers of thick foam (116) and paper lasting board (118) as to replace the thin piece of sponge. The additional layer of thick foam (116) is glued to paper lasting board (118) before attaching them to the fiber lasting board (120). The additional layer of thick foam (116) makes long walking and standing hours bearable and comfortable, and giving the human back a better support. Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002373

(22) **Filing Date** : 06 May 2022

(30) **Priority Date** : 06 May 2021

(71) **Applicant(s)** : Schneider Electric (Australia) Pty Ltd

(72) **Inventor(s)** : Zhang, Guoqiang

(74) **Agent** : Timothy Siaw Yean Hwa

(54) **Title** : Charging Apparatus And Charging Method

(57) **Abstract** : Embodiments of the present disclosure provide a charging apparatus (100) and a charging method (400). The charging apparatus (100) comprises: a housing (110) adapted to be mounted in wall; a power assembly (120) arranged within the housing (110) and configured to supply output power to a device (300) to be charged from a power source (200); a temperature sensing unit (130), arranged within the housing (110) and configured to sense temperature inside the housing (110); a control assembly (140) arranged within the housing (110) and coupled to the power assembly (120) and the temperature sensing unit (130), the control assembly (140) being configured to control, based on temperature information from the temperature sensing unit (130), the power assembly (120) to change the output power, thereby suppressing rise of temperature inside the housing (110). In accordance with embodiments of the present disclosure, the charging apparatus mounted in the wall can provide an effectively boosted charging power and is further applied to a broader scope.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002431

(22) **Filing Date** : 03 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Muhammad Tahir

(74) **Agent** : Mad Isa Bin Mohamed

(54) **Title** : A Max-Phase Nanocomposite Catalyst And A Method For Producing And Using Thereof For The Production Of Clean Fuel

(57) **Abstract** : The present invention relates to a nanocomposite catalyst for photocatalytic application, characterized in that, the nanocomposite catalyst comprising a first component consisting of metal oxide nanoparticles, wherein the metal oxide nanoparticles are selected from titanium dioxide, TiO₂ nanoparticles; and a second component dispersed with the first component; wherein the second component is selected from co-catalyst nanoparticles, nanosheets, or in a combination thereof. The present invention further relates to a method for producing the nanocomposite catalyst and using the same for preparing monolithic support structure thereof in the production of hydrogen (H₂) or CO, CH₄ and C₂H₆ via different reforming processes. [Figure 4]

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002537

(22) **Filing Date** : 07 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Wong Chong Ban

(74) **Agent** : Geetha Kandiah

(54) **Title** : Glove

(57) **Abstract** : A latex formulation comprises base polymers, wherein the base polymers are blend of acrylonitrile butadiene rubber latex, vinyl acetate-ethylene copolymer latex and polychloroprene latex, wherein the acrylonitrile butadiene rubber latex is used in an amount ranging between 50.00 phr to 95.00 phr, wherein the vinyl acetate-ethylene copolymer latex is used in an amount ranging between 3.00 phr to 30.00 phr and wherein the polychloroprene latex is used in an amount ranging between 2.00 phr to 20.00 phr. A glove is prepared from the latex formulation as described above.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002538

(22) **Filing Date** : 07 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Lim Keuw Wei

(74) **Agent** : Geetha Kandiah

(54) **Title** : Glove

(57) **Abstract** : A latex formulation comprises base polymers, wherein the base polymers are blend of acrylonitrile butadiene rubber latex, polyvinyl chloride latex and polychloroprene latex, wherein the acrylonitrile butadiene rubber latex is used in an amount ranging between 50.00 phr to 95.00 phr, wherein the polyvinyl chloride latex is used in an amount ranging between 2.50 phr to 30.00 phr and wherein the polychloroprene latex is used in an amount ranging between 2.50 phr to 20.00 phr. A glove is prepared from the latex formulation as described above.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002539

(22) **Filing Date** : 07 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Wong Chong Ban

(74) **Agent** : Geetha Kandiah

(54) **Title** : Glove

(57) **Abstract** : A latex formulation comprises base polymers, wherein the base polymers are blend of carboxylated acrylonitrile butadiene rubber latex, carboxylated styrene-butadiene latex and polychloroprene latex, wherein the carboxylated acrylonitrile butadiene rubber latex is used in an amount ranging between 20.00 phr to 98.00 phr, wherein the carboxylated styrene-butadiene latex is used in an amount ranging between 1.00 phr to 30.00 phr and wherein the polychloroprene latex is used in an amount ranging between 1.00 phr to 50.00 phr. A glove is prepared from the latex formulation as described above.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002496

(22) **Filing Date** : 05 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Arash Liaghat Alireza

(74) **Agent** : Lim Swee Ee

(54) **Title** : Apparatus For Carrier Tape Insertion And Method Thereof

(57) **Abstract** : An apparatus and method for carrier tape insertion, comprising of a reel (101), a first carrier tape (103), a second carrier tape (105), an insertion slot (106), at least two carrier tape bridges (107) connecting and guiding said first carrier tape (103) into said insertion slot (106); at least one bridge base (109) placed prior to said carrier tape bridges (107) comprising of a first end (108) and a second end (110); wherein said first carrier tape (103) can be snugly fitted into said insertion slot (106) on said reel (101) with the aid of said carrier tape bridge (107); at least one buffer zone (2) positioned at a predetermined position after the second end (110) of said bridge base (109); and at least one damper bridge (111) placed at said buffer zone (2) configured to guide said second carrier tape (105) into said buffer zone (2) during reel to reel exchanging process. (The most illustrative figure is FIG 1-G)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021002465

(22) **Filing Date** : 04 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : International Medical University

(72) **Inventor(s)** : Thanikachalam Pasupati Meenaksh

(74) **Agent** : Tee Lin Yik

(54) **Title** : A Computer-Aided Diagnosis Method For Pancreatic Cancer Images Classification

(57) **Abstract** : ABSTRACT A COMPUTER-AIDED DIAGNOSIS METHOD FOR PANCREATIC CANCER IMAGES CLASSIFICATION The present invention discloses a computer-aided diagnosis method for pancreatic cancer images classification, the method comprising the steps of extracting patches from pancreatic cancer images; identifying each patch of the pancreatic cancer images based on a constructed diagnostic model to determine patch level images scoring; collecting scores of each patch level image; classifying pancreatic cancer images based on the scores of the patch level images; wherein the diagnostic model is constructed by the steps of: obtaining and pre-processing reference images as training datasets; augmenting the pre-processed training datasets via patch level images augmentation; training a neural network classifier with the patch level images to produce the diagnostic model for determining scores of each patch level image; wherein the diagnostic model uses convolutional neural network classifier; and wherein the pancreatic cancer image is a pancreatic cytological image. [Accompanying Figure 2]

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002540

(22) **Filing Date** : 07 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Wong Chong Ban

(74) **Agent** : Geetha Kandiah

(54) **Title** : Glove

(57) **Abstract** : A latex formulation comprises base polymers, wherein the base polymers are blend of carboxylated acrylonitrile butadiene rubber latex, carboxylated styrene-butadiene rubber latex and polyvinyl chloride latex, wherein the carboxylated acrylonitrile butadiene rubber latex is used in an amount ranging between 60.00 phr to 98.00 phr, wherein the carboxylated styrene-butadiene rubber latex is used in an amount ranging between 1.00 phr to 20.00 phr and wherein the polyvinyl chloride latex is used in an amount ranging between 1.00 phr to 20.00 phr. A glove is prepared from the latex formulation as described above.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002541

(22) **Filing Date** : 07 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Wong Chong Ban

(74) **Agent** : Geetha Kandiah

(54) **Title** : Glove

(57) **Abstract** : A latex formulation comprises base polymers, wherein the base polymers are blend of carboxylated acrylonitrile butadiene rubber latex, carboxylated styrene-butadiene latex and vinyl acetate-ethylene copolymer latex. A latex formulation comprises base polymers, wherein the base polymers are blend of carboxylated acrylonitrile butadiene rubber latex, carboxylated styrene-butadiene latex, vinyl acetate-ethylene copolymer latex and polychloroprene latex. A glove is prepared from the latex formulations as described above.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021002491

(22) **Filing Date** : 05 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Vincent Soh Aik Guan

(72) **Inventor(s)** : Vincent Soh Aik Guan

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

(54) **Title** : A Financing System And Method Thereof

(57) **Abstract** : The present invention discloses a computer-implemented method for providing a deducted financing rate to an applicant of a loan or investment fund, the method comprises the steps of: obtaining, a financing module (131), a financing status of the applicant; computing, by the financing module (131), a base financing rate for the loan or investments based on the financing status of the applicant; generating, by a risk reduction and incentive module (133), a list of risk metrics to the applicant, whereby the list of risk metrics is generated by filtering known risk metrics obtained from the financing status from a predetermined list of risk metrics; prompting, by the risk reduction and incentive module (133), the applicant or application user to select one or more risk metrics from the generated list of risk metrics; calculating, by the risk reduction and incentive module (133), a risk deduction rate based on the selected risk metrics; determining, by the financing module (131), the deducted financing rate by deducting the risk deduction rate from the base financing rate; and generating, by an infographic module (134), a financial infographic associated to the loan of the applicant or investment to an investee on a financing platform (130) where the loan and/or investment can be electronically funded by a plurality of lenders or investors, wherein the financial infographic includes the financing status of the applicant and the deducted financing rate. (Figure 2)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002479

(22) **Filing Date** : 04 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Goh Chun Yee

(74) **Agent** : Lim Swee Ee

(54) **Title** : Automatic Splicing Device And Method Thereof

(57) **Abstract** : The present invention relates to an automatic splicing device comprises of at least one carrier tape splicing station (100) for splicing carrier tapes and at least one cover tape splicing station (400) for splicing cover tape. The splicing device is configured such that the rear end of preceding tape is well-connected with the leading end of succeeding tape at a predetermined correct pitch without dislocation. Both of said carrier tape splicing station (100) and said cover tape splicing station (400) can be operated simultaneously to allow continuous replenishment of carrier tapes and cover tapes for tape and reel process. (The most illustrative figure is FIG. 1)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021002514

(22) **Filing Date** : 06 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Tsu-Neng Hsu

(72) **Inventor(s)** : Tsu-Neng Hsu

(74) **Agent** : Caroline Anne Francis Xavier Money

(54) **Title** : Insect Attracting Device

(57) **Abstract** : INSECT ATTRACTING DEVICE ABSTRACT An insect attracting device includes a cover (1), a luring element (3), and a hanging element (2). A first thread (126) or a second thread (127) of the cover (1) is engaged with a thread (A2; B2) of a bottle body (A; B) to lock the cover (1) to a mouth portion (A1; B1) of the bottle body (A; B) threadedly such that a luring portion (31) of the luring element (3) is in the bottle body (A; B). The insect attracting device can be coupled to bottle bodies whose mouth portions are different in size, thereby providing ease of use. Figure 6

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021002446

(22) **Filing Date** : 03 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Malaysian Agricultural Research And Development Institute (Mardi)

(72) **Inventor(s)** : Md. Akhir Bin Hamid

(74) **Agent** : Tee Lin Yik

(54) **Title** : A Coconut Husk Processing Machine

(57) **Abstract** : ABSTRACT A COCONUT HUSK PROCESSING MACHINE A coconut husk processing machine (11) comprising: a top cover (13) having an inlet (15); a beater drum (17) with a plurality of spikes (18) to separate a coconut husk into cocopeat and fibre; a pair of combing devices (19) to filter the fibre; a plurality of filtering rods (21) disposed underneath said beater drum (17); characterized by a scraper (23) having a plurality of teeth received in between said plurality of filtering rods (21); a scraper sliding means including a pair of sliders (25) coupled to the scraper (23) and each of said slider (25) is sat on a shaft (27); and a scraper driving means including driving belts (29) and sprockets (31) to move the scraper (23); wherein the beater drum (17) and the scraper (23) are operated by an engine (33) to work simultaneously; wherein the scraper (23) moves forward and backward along the plurality of filtering rods (21) to scrap the cocopeat that clogged at the filtering rods (21). Accompanying figure: Figure 3

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002547

(22) **Filing Date** : 07 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Chia Fut Keong

(72) **Inventor(s)** : Chia Fut Keong

(74) **Agent** : Tan Sin Su

(54) **Title** : A Centralized Air Sterilizing System

(57) **Abstract** : The present invention generally relates to a centralized air sterilizing system for sterilization and oxidation of the contaminated air. Accordingly, the centralized air sterilizing system (100) includes: i) at least one air collection chamber (400) provided with a compressed ozone, wherein the compressed ozone is used to complete an oxidizing sterilization process (OSP), either individually or in combination with ultraviolet irradiation or highly reactive ionizer, or a combination of all thereof, so as to reduce, if not, eliminate or to kill microorganisms in the extracted contaminated air that are floating in the collection chamber (400) and trapped in the at least one replaceable filter (440); ii) at least one air exchanger (600) to convert the excess ozone back into oxygen after the oxidizing sterilization process (OSP); wherein the contaminated air is extracted from various designated locations through one or more ventilation ducting networks (200); and wherein a sterilized clean air and oxygen would be released and distributed back into the various designated locations through at least one air handling unit (700).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002634

(22) **Filing Date** : 11 May 2021

(30) **Priority Date** :

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

(72) **Inventor(s)** : Akhtar Razul Bin Razali

(74) **Agent** : Geetha Kandiah

(54) **Title** : Apparatus For Conducting Soil Test

(57) **Abstract** : An apparatus (100) for conducting a soil test, comprising a penetration rod (110) with an impact part (110b) for receiving an impact force and a penetrating end (110c) capable of penetrating ground soil (160) at a testing site when the impact force is received at the impact part (110b). An electronic measurement means (150) measures a depth of the penetration rod (110) into the ground soil (160). An electronic control unit receives and processes a measurement data from the electronic measurement means to generate a test output data.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002637

(22) **Filing Date** : 11 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Sri Skanda Rajah S. Ratnam

(72) **Inventor(s)** : Sri Skanda Rajah S. Ratnam

(74) **Agent** : Geetha Kandiah

(54) **Title** : Pipeline Assembly And Manufacturing Method Therefor

(57) **Abstract** : The present invention relates to a pipeline assembly and a manufacturing method therefore. The pipeline assembly (10, 20, 30, 40) comprises one or more tubular bodies (11, 21, 31, 41, 42) formed of one or more arc-shaped profile members (12, 22, 32, 33, 43, 44). Each arc-shaped profile member (12, 22, 32, 33, 43, 44) includes a tongue (12a, 22a, 32a, 33a) at one first edge and a groove (12b, 22b, 32b, 33b) at another first edge, wherein the first edges are opposite to one another.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021002641

(22) **Filing Date** : 12 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : Liew Wye Loon

(72) **Inventor(s)** : Liew Wye Loon

(74) **Agent** : Yip Jiun Hann

(54) **Title** : A Wall Assembly System

(57) **Abstract** : The present invention relates to a retort machine, characterised in that; a first preformed board (10); a second preformed board (20) distally spaced to the first preformed board (10) in a parallel manner; a cavity (30) defined in between the first preformed board (10) and the second preformed board (20); wherein the cavity (30) is configured to receive a volume of poured concrete; a plurality of concrete spacer (40) affixed to the first preformed board (10) and the second preformed board (20) configured for reinforcing adhesion of the poured concrete; a plurality of elongated member (50) mounted horizontally on exterior surface of the first preformed board (10) and the second preformed board (20) configured for holding said boards (10) and (20) in place during concrete pouring; and at least two U-clamp (60) having a plurality of jack nut (70) engaged to the elongated member (50) for fastening, clamping and alignment means. Drawing accompanying abstract: Fig. 2

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2021002624

(22) **Filing Date** : 11 May 2021

(30) **Priority Date** :

(71) **Applicant(s)** : See Tho Mun Hong

(72) **Inventor(s)** : See Tho Mun Hong

(74) **Agent** : Nur Hazwah Mohd Amin

(54) **Title** : Solar Photovoltaic Fault Current Limited (Fcl) Reactor

(57) **Abstract** : The present invention is a solar photovoltaic fault current limiter (FCL) reactor that includes one or more inductor coils and a plurality of solar inverters. The solar inverters are electrically connected to the inductor coils to provide inverter capacitive reactive power to compensate for inductive reactance to control the inductive losses.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022000824

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

(30) **Priority Date** : 10 May 2021

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

(72) **Inventor(s)** : Hideshige Nakano

(74) **Agent** : Hawa Diyana Binti Saim

(54) **Title** : In-Vehicle Relay Device

(57) **Abstract** : An in-vehicle relay device relays communication between a vehicle outside and an in-vehicle network (2). A first device is provided separately from the in-vehicle network (2) and communicates with the vehicle outside, and a second device is provided separately from the vehicle outside, is communicably connected to the first device through a first communication line and the in-vehicle network (2). The first device has detection means for detecting an attack on the in-vehicle network (2) and notifying the second device through the first communication line of the attack. The second device has deciding means for deciding whether the first device receives the attack based on information received from the first device through the first communication line, authentication means for performing authentication using an encryption key for the first device, and takes a predetermined response when deciding is made that the first device receives the attack or the authentication is unsuccessful. Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022000756

(22) **Filing Date** : 10 February 2022

(30) **Priority Date** : 10 May 2021

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

(72) **Inventor(s)** : Daiki Saito

(74) **Agent** : Hawa Diyana Binti Saim

(54) **Title** : In-Vehicle Relay Device

(57) **Abstract** : An in-vehicle relay device is mounted on a vehicle and relays communication between an outside of the vehicle and an in-vehicle network (2) inside the vehicle. The in-vehicle relay device includes a first device that is provided separately from the in-vehicle network (2) and communicates with the outside of the vehicle and a second device that is provided separately from the outside of the vehicle and is communicably connected to the first device and the in-vehicle network (2). The first device has an attack detection function of detecting an attack on the in-vehicle network (2). The second device has an attack deciding function of deciding whether or not the first device receives the attack. When deciding is made by the attack deciding function that the first device receives the attack, a predetermined response is taken. Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022000627

(22) **Filing Date** : 31 January 2022

(30) **Priority Date** : 10 May 2021

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

(72) **Inventor(s)** : Tamura, Takashi

(74) **Agent** : Jyeshta Mahendran

(54) **Title** : Manufacturing Method Of Resin Molded Product, Molding Mold, And Resin Molding Apparatus

(57) **Abstract** : Provided is a manufacturing method of a resin molded product, in which entry of resin into a gap of a unit (120) can be suppressed. The manufacturing method of a resin molded product includes: a resin molding process, in which a molding object (2) is resin-molded using a molding mold (100), the molding mold (100) including a mold body (110), and at least one unit (120) provided in the mold body (110) in which a cavity (125a) is formed and a resin relief part (S) having a concave shape is formed in an outer peripheral portion; and a maintenance process, in which maintenance of the molding mold (100) is performed by performing molding with the molding mold (100) using a maintenance resin.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002057

(22) **Filing Date** : 20 April 2022

(30) **Priority Date** : 11 May 2021

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

(72) **Inventor(s)** : Takayuki Hanami

(74) **Agent** : Patrick Mirandah

(54) **Title** : Dresser Board And Method Of Dressing Cutting Blade

(57) **Abstract** : A dresser board for use in correcting a shape of a cutting blade includes a first layer including first abrasive grains and a first binding material that holds the first abrasive grains, and a plurality of second layers stacked on the first layer in sandwiching relation thereto. A thickness of the first layer is smaller than a width of the cutting blade, and the second layer includes second abrasive grains whose average diameter is smaller than that of the first abrasive grains and a second binding material that holds the second abrasive grains.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2022001650

(22) **Filing Date** : 28 March 2022

(30) **Priority Date** : 07 May 2021

(71) **Applicant(s)** : Transportation Ip Holdings, Llc

(72) **Inventor(s)** : Brett Heher

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

(54) **Title** : A Body And Method For Locating Machining Features In Additively Manufactured Parts

(57) **Abstract** : A method includes forming one or more plug holes into a tool surface of a body. The one or more plug holes arc partially formed around a landing surface portion of a plug in the body. The method also includes engaging a tool with the landing surface portion of the plug in the body, and using the tool to cut away the plug from the body and at least part of the body to form a tooled void into the body.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022002414

(22) **Filing Date** : 10 May 2022

(30) **Priority Date** : 11 May 2021

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

(72) **Inventor(s)** : Kenji Takenouchi

(74) **Agent** : Patrick Mirandah

(54) **Title** : Substrate Processing Method

(57) **Abstract** : Provided is a method for processing a substrate having a metal formed on a planned dividing line along the planned dividing line, the method including a processed groove forming step of forming a processed groove in the substrate along the planned dividing line, and a burr removing step of, after the processed groove forming step is performed, making an etchant that includes at least an oxidizing agent and to which an ultrasonic vibration is imparted come into contact with the substrate, suppressing ductility of a metallic burr generated on a periphery of the formed processed groove and increasing fragility of the burr by modifying the burr by the oxidizing agent included in the etchant, and removing the burr by the ultrasonic vibration.

<http://ipjournal.myipo.gov.my>

ipjournal@myipo.gov.my

PATENT

+603 2299 8805 / suzie@myipo.gov.my

+603 2299 8844 / yasmin@myipo.gov.my

TRADEMARK

+603 2299 8656 / katijah@myipo.gov.my

INDUSTRIAL DESIGN

+603 2299 8858 / norsaari@myipo.gov.my

+603 2299 8865 / afiza@myipo.gov.my

GEOGRAPHICAL INDICATIONS

+603 2299 8659 / imtinan@myipo.gov.my

+603 2299 8962 / anura@myipo.gov.my

<http://www.myipo.gov.my>