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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.** : PI2021007180

(22) **Filing Date** : 01 December 2021

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Lim Keuw Wei ; Cheong Jiun Yi ; Phang Chee Kin ; Ng Yong Lin

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

(54) **Title** : A Thermoplastic Elastomeric Formulation And Glove Manufactured Thereof

(57) **Abstract** : A method of manufacturing styrenic block copolymers based thermoplastic elastomer (TPE) gloves comprises the steps of mixing a styrenic block copolymers based TPE with lubricant to produce a first mixture, mixing the first mixture with reinforcing agent, antioxidant, wetting agent and opacity enhancer to produce a second mixture, pouring the second mixture into an extruder for extruding to produce extruded styrenic block copolymers based TPE films, subjecting the extruded styrenic block copolymers based TPE films to surface treatment to obtain surface treated styrenic block copolymers based TPE films and heat sealing the surface treated styrenic block copolymers based TPE films to produce the styrenic block copolymers based TPE gloves. Further, the present invention relates to a thermoplastic elastomeric formulation comprising styrenic block copolymers based TPE, lubricant, reinforcing agent, antioxidant, wetting agent and opacity enhancer.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007182

(22) **Filing Date** : 01 December 2021

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Ling Siew Szen ; Low Meng Lai ; Ng Yong Lin

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

(54) **Title** : System And Method For Monitoring And Controlling An Elastomeric Article Production Line

(57) **Abstract** : A system (100) and method for monitoring and controlling an elastomeric article production line are disclosed. The system (100) comprises at least one sensor (102) installed in at least one latex dipping tank (101) and at least one control device (104) communicably connected to the at least one latex dipping tank (101); a memory (106) to store predetermined configuration data corresponding to one or more process parameters associated with the latex dipping tank (101); a programmable logic controller (108) communicably connected with the sensor (102), the control device (104) and the memory (106). The programmable logic controller (108) is configured to receive at least one signal from the sensor (102) corresponding to a process parameter measured from the latex dipping tank (101); process and compare the measured process parameter with corresponding predetermined configuration data stored in the memory (106); and selectively operate at least one control device (104) associated with the corresponding latex dipping tank (101) to control the measured process parameter based on the comparison of the measured process parameter with the predetermined configuration data.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007183

(22) **Filing Date** : 01 December 2021

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Mohd Khir Bin Mohd Nor ; Mohd Syazwan Bin Abdul Samad

(74) **Agent** : Lok Choon Hong C/O Pintas Consulting Group Sdn. Bhd

(54) **Title** : Method For Scaling A Crash Test Dummy Finite Element Model Or Human Body Finite Element Model To Anthropometrically Fit To A Populace

(57) **Abstract** : The invention provides a method for scaling a digital dummy model (1), comprising the steps of initializing the model (1), with standard measurements, in a simulation environment, initializing a global scale factor corresponding to the model (1), updating the global scale factor iteratively, obtaining an optimized global scale factor therefrom, and scaling the model (1) entirely with the optimized global scale factor to form a scaled model (2). The optimized global scale factor obtained from the iterative update corresponds to the obtainment of a minimum error value between one or more standard measurement data and one or more target measurement data. (Fig. 2)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007198

(22) **Filing Date** : 01 December 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Aznida Binti Abu Bakar Sajak

(72) **Inventor(s)** : Aznida Binti Abu Bakar Sajak ; Mohd Sallehin Bin Mohd Kassim ; Abdul Dzuljalal Ikram Bin Mat Seri ; Amirul Aiman Bin Noor Nasruddin ; Nurnasuha Binti Amar ; Ruwaida Binti Ramly

(74) **Agent** : NONE

(54) **Title** : Oil Palm Fresh Fruit Bunch (Ffb) Lidar Prediction Ripeness Via Lora

(57) **Abstract** : Oil palm fruit is one of the leading agricultural product exports by Malaysia. At present, the general methods used to determine the ripeness of oil palm fresh fruit bunch are using human vision, computer vision and laser-based imaging techniques. This prototype is a scanning system based on a LiDAR sensor and servo motors and to obtain point cloud data from oil palm fresh fruit hunch (FFB). The proposed project consists of LiDAR Lite V3, Arduino UNO and two servo motors as its main component. LiDAR sensor is used to collect the intensity value that reflects from the Virescens oil palm FFB, and the data collected are saved in a CSV file for further analysis. This model supports redesign if there are any improvements needed in this project and the phase can be looped back to the previous iteration if the process faces any errors. The system proposed works successfully to produce point clouds from oil palm fresh fruit bunch and it is found that ripe oil palm fruit has lower mean intensity value compared to unripe oil palm fresh fruit bunch. The intensity data of the FFB is sent from the transmitter to the receiver via Long Range (LoRa).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007208

(22) **Filing Date** : 02 December 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Ev Assets Sdn. Bhd.

(72) **Inventor(s)** : Khoo Chee Kong

(74) **Agent** : Lok Choon Hong C/O Pintas Consulting Group Sdn. Bhd

(54) **Title** : Vehicle-Mounted Apparatus For Provision Of Electrical Power To Devices Thereto

(57) **Abstract** : The invention provides an apparatus mounted to a vehicle by a mounting assembly, for providing electrical power to at least one device, comprising a container (10) for accommodating the device, and a power module connected in between a power source (40) of the vehicle and the device, having an inverter (21) for converting a direct current power from the power source (40) into an alternating current power to be supplied to the device. The power module is housed within a retainer (30) that is detachably attached to the container through a coupling mechanism. (Fig. 1b)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007209

(22) **Filing Date** : 02 December 2021

(30) **Priority Date** : NONE

(71) **Applicant(s)** : S2t1 Intellectual Sdn Bhd

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

(74) **Agent** : Lok Choon Hong C/O Pintas Consulting Group Sdn. Bhd

(54) **Title** : An Antimicrobial Disinfectant Composition For Air Diffusion For Use In An Air Diffuser

(57) **Abstract** : The invention relates to an antimicrobial disinfectant composition for use in an air diffuser and a method for preparing thereof. Particularly, the antimicrobial disinfectant composition comprises a nano-sized particle selected from the group consisting of elemental metal, metal oxide, metal salt, colloidal metal, metal ion, or a combination thereof and a liquid carrier. Preferably, the atoms of the nano-sized particle are in a state of energy excitation that vibrate at a frequency of 1 kHz to 1 MHz for a period of time upon being subjected to bombardment with a vibration force at the frequency for at least 6 hours. Advantageously, the antimicrobial disinfectant composition can eliminate a variety of microbes. In addition, the atoms hold sufficient vibration energy for a period of time and are able to transfer the vibration energy to surrounding microbes to facilitate the disinfection and improve the disinfection efficacy. (Most illustrative drawing: Figure 1)

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007228

(22) **Filing Date** : 02 December 2021

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Ida Idayu Bt. Muhamad ; Liew Wen Ching

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

(54) **Title** : Synergistic Antimicrobial Active Film With Food Freshness Indicator

(57) **Abstract** : The present invention relates to a biodegradable polymer-based packaging with synergistic antimicrobial agents for the use of extending food shelf life especially seafood comprising food freshness indicator fabricated with synergistic dyes and attached to active packaging to detect the food freshness. The present invention provides a synergistic effect of active film and food freshness indicator within one packaging system which could provide double protections: (i) prolong the food shelf life by inhibiting microbial growth and (ii) actively indicate the integrity of packed food via rapid visual assessment. The present invention could be beneficial in monitoring and enhancing the food quality, food security and food safety throughout the food supply chain.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007236

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Abdul Aziz Bin Hairuddin ; Azizan Bin As'Array ; Khairil Anas Bin Md Rezali ; Muhammad Usman Ikhtiar

(74) **Agent** : Chua Por Yean C/O Ian Intellectual Property Sdn. Bhd.

(54) **Title** : Intake Air Cooling Device

(57) **Abstract** : Disclosed is an intake air cooling device connected to an internal combustion engine and a refrigeration system of a vehicle. The intake air cooling device includes a shell box, a plurality of diffuser type covers, a plurality of header plates, and a plurality of baffles. The shell box contains a plurality of heat transfer components through which ambient air passes. The heat transfer components are configured to reduce the temperature of the ambient air by utilizing the refrigeration system of the vehicle. The diffuser-type covers are placed on an air inlet port and an air outlet port. The heat transfer components are named as lamellas. The lamellas are stacked close to each other, parallel and equally spaced, fixed in the header plates which is placed at both sides of the lamellas, to form a plurality of narrow channels on a shell side. The baffles are placed inside the shell side to support the lamellas for structural rigidity and divert a refrigerant flow across the heat transfer components to obtain a high heat transfer coefficient. The most illustrative drawing: FIG. 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007241

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

(30) **Priority Date** : NONE

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

Inventor(s) : Aos Alaa Zaidan ; Ahmed Shihab Ahmed Al-Bahri ; Osamah Shihab Ahmed Albahrey ;
(72) Mamoun Alazab ; Jameel Rabee Jameel ; Bilal Bahaa Zaidan ; Hassan Abdulsattar Ibrahim Albayati ;
Abdullah Hussein Abdullah Alamoodi ; Rawia Tahrir Salih Mohammed

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

(54) **Title** : A Method For Distributing Vaccine

(57) **Abstract** : The present invention relates to a method for distributing vaccine. The method comprises the steps of defining and identifying criteria of vaccine recipients and alternatives (110); performing data generation and augmentation of the identified criteria of vaccine recipients and alternatives to obtain new dataset of selected criteria and alternatives (120); examining and utilising the selected criteria and alternatives from the new dataset to generate a prioritisation decision matrix, DM of vaccine recipients' distribution (130); and utilising two multicriteria decision-making, MCDM approaches to evaluate the prioritisation decision matrix, DM of vaccine recipients' distribution (140). In particular, the two multicriteria decision-making, MCDM approaches are integrated Pythagorean fuzzy decision by opinion score method-Pythagorean fuzzy-weighted zero-inconsistency, PFDOSM-PFWZIC approach. The most illustrative drawing: Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007244

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Liyana Binti Yahya ; Nur Muhammad Afifi Bin Zainal ; Lim Mook Tzeng ; Ahmad Faizal Bin Ahmad Zamli ; Noraziah Binti Muda

(74) **Agent** : Biruntha Letchumi Mooruthi C/O Uniten R&D Sdn Bhd

(54) **Title** : Apparatus And Method For Converting Food Waste Into Biochar

(57) **Abstract** : The present invention relates to an apparatus and method for converting food waste into biochar, more particularly the present invention relates to an apparatus and method for converting food waste into biochar via torrefaction with mechanical pre-treatment of food waste, wherein the apparatus comprising a module for processing food waste and for reducing water content, and a reactor (13) for converting solid material of the food waste into biochar.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007246

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Lim Mook Tzeng ; Sureiyn Nimellnair

(74) **Agent** : Biruntha Letchumi Mooruthi C/O Uniten R&D Sdn Bhd

(54) **Title** : System And Method For Pyrolysis Of Carbon-Based Materials

(57) **Abstract** : The present invention relates to a system and method for pyrolysis of carbon-based materials, more particularly the present invention relates to a system and method for pyrolysis of carbon- based materials such as organic and plastic materials, wherein the system comprising a pyrolysis agent supply (101) for supplying pyrolysis agent, a reactor (13) containing carbon- based materials for receiving pyrolysis agent, and for pyrolyzing the carbon-based materials and for releasing volatile gases, a cyclone (14) for separating solids from volatile gases from the reactor (13), and a condenser (21) for condensing the volatile gases into liquid oil.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007260

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Institute Of Technology Petronas Sdn. Bhd.

(72) **Inventor(s)** : Mohd Hilmi Hasan ; Siti Hajar Khairuddin ; Manzoor Ahmed Hashmani ; Izzatdin Abdul Aziz ; Jafreezal Jaafar

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

(54) **Title** : A Method Of Constructing Type-2 Trapezoidal Membership Function For Fuzzy Inference System

(57) **Abstract** : ABSTRACT A METHOD OF CONSTRUCTING TYPE-2 TRAPEZOIDAL MEMBERSHIP FUNCTION FOR FUZZY INFERENCE SYSTEM The present invention discloses a method of constructing type-2 trapezoidal membership function for fuzzy inference system, the method characterized by the steps of constructing Gaussian membership function using fuzzy c-means to obtain Gaussian outputs, constructing type-1 trapezoidal membership function by utilising the Gaussian outputs, constructing the type-2 trapezoidal membership function by utilising the type-1 trapezoidal membership function, wherein the type-2 trapezoidal membership function is constructed by performing genetic weak tuning and lateral adjustment based on footprint of uncertainty comprising an upper membership function and a lower membership function to optimise the type-2 trapezoidal membership function. [Accompanying Figure 1]

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007179

(22) **Filing Date** : 01 December 2021

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Radhiah Binti Mohd Jelani ; Ng Yong Lin ; Pedram Azari

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

(54) **Title** : Glove

(57) **Abstract** : A latex formulation comprises base polymers and plasticizer, wherein the base polymers are blend of acrylonitrile butadiene rubber latex and polyvinyl chloride latex, wherein the plasticizer comprises pentaerythritol tetravalerate and sodium lauryl sulphate, wherein the acrylonitrile butadiene rubber latex is used in an amount ranging between 79.50 phr to 99.50 phr, wherein the polyvinyl chloride latex is used in an amount ranging between 0.50 phr to 20.50 phr and wherein the plasticizer is used in an amount of 3.00 phr to 20.00 phr. A glove is prepared from the latex formulation as described above.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007267

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Gopinathan S/O Sangarapani ; Hir Rahman Bin Abdul Rahman ; Ahmad Marzuk Bin Shuib ; Asokan A/L Sinnavan

(74) **Agent** : Pauline Khor Hong Ping C/O Rahmat Lim & Partners

(54) **Title** : Rake Assembly

(57) **Abstract** : ABSTRACT RAKE ASSEMBLY The present invention provides a rake assembly for raking, comprising a frame (1) having a first end and a second end, a first linkage (2) on the first end of the frame (1), wherein the first linkage (2) is detachably coupled to a moveable apparatus (3), a second linkage (4) on the first end of the frame, wherein the second linkage (4) is pivotally coupled to at least one actuator (5) which is coupled to the moveable apparatus (3), a third linkage (6) on the first end and the second end of the frame (1) coupled to a face of multiple rake blades (7). The most illustrative figure: Figures 7 to 11.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022005929

(22) **Filing Date** : 25 October 2022

(30) **Priority Date** : 27 October 2021

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

(72) **Inventor(s)** : Na, Yun Sung ; Kim, Solbi

(74) **Agent** : Jason Cheah Yue Meng C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Holder For Electronic Part Handler

(57) **Abstract** : Disclosed herein is a holder for an electronic part handler. The holder including: a pair of gripping levers configured to selectively grip and release an adapter; a driving source configured to allow the pair of gripping levers to selectively grip and release the adapter; a pair of movable guiders configured to support an electronic part in the state in which the adapter is opened by an opener, and to guide an electronic part to a seating location in the process in which the electronic part is seated on the adapter; a restoring member configured to restore the pair of movable guiders to their original locations when the pair of movable guiders are moved by applying an external force to the pair of movable guiders and then the external force is removed from the pair of movable guiders; and an installation frame.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007278

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Institut Penyelidikan Dan Kemajuan Pertanian Malaysia (Mardi)

(72) **Inventor(s)** : Norliza Tendot Binti Abu Bakar ; Lau Han Yih

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

(54) **Title** : A Method For Detecting Blood Disease In Banana

(57) **Abstract** : The present invention discloses a method for detecting blood disease in banana (100), characterized in that, the method comprising steps of extracting a DNA from banana sample by homogenizing the banana sample in a lysate buffer (101), wherein the lysate buffer comprising 50 mM Tris-HCl, 1.5 M guanidium-HCl, 2% w/v PVP40 and 1% v/v Triton-X; amplifying the extracted DNA via Loop-Mediated Isothermal Amplification, LAMP at a fixed temperature of 65 °C based on a plurality of specifically-designed primers (102); flocculating the amplified DNA by using activated carbon configured to detect presence of blood disease in the banana sample (103); wherein the amplified DNA of the banana sample will flocculate with particles of the activated carbon if the banana sample is affected with the blood disease. Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007268

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Rosalam Bin Che Me ; Faisul Arif Bin Ahmad @ Mohd Yusoff

(74) **Agent** : Chua Por Yean C/O Ian Intellectual Property Sdn. Bhd.

(54) **Title** : Wearable Haptic-Feedback Assistive Navigation Device

(57) **Abstract** : Disclosed is a wearable haptic-feedback assistive navigation device that includes a satellite navigation device, an angular velocity sensor, an accelerometer sensor, a plurality of haptic actuators, a main controller, a data storage device, an earphone module, and an image sensor. The satellite navigation device detects a geographical position of a user and computes a specific location of the user based on the geographical position data of the user. The angular velocity sensor detects an angular velocity of the wearable haptic-feedback assistive navigation device. The angular velocity sensor measures and maintains the orientation and angular velocity of the wearable haptic-feedback assistive navigation device. The accelerometer sensor measures acceleration forces acting on an object to determine a position of the object in a space and monitors the movement of the object. The haptic actuators generate tactile or haptic sensations when activated. The haptic actuators are attached in a linear position along a body part to provide a multi-directional haptic waveform. The main controller receives and processes input data and output data. The main controller transmits the processed data to a server over a network. The server transmits the processed data to a mobile application installed within a computing device for visualization. The most illustrative drawing: FIG. 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007270

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Suriyati Binti Saleh ; Noor Asma Fazli Bin Abdul Samad ; Chang Siaw Sang

(74) **Agent** : Ainoon Shabirin C/O Intelleigen Zahia Intellectual Property Advisors

(54) **Title** : A Solid Fuel With Extended Burning Phase

(57) **Abstract** : The present invention relates to solid fuel, and particularly those made of bio-waste with prolonged burning phase and a method to produce the same through torrifaction. As described, there is a method for extending the burning phase in a solid fuel, said method comprising: a. preparing a fuel composition comprising bio-waste consisting of air dried palm-based fibrous particles; b. subjecting the fuel composition to torrefaction in a tubular reactor, wherein the heating is carried out indirectly at a mass temperature of 250-300° C for 20-30 minutes, followed by cooling to room temperature; c. collecting the fuel composition and adding a binder thereto; d. putting the same in a mold followed by hot-press at 120-140C and a pressure of 10-14MPa for 20-40mins; and e. cooling of the hot mold to room temperature and followed by de-molding to yield the solid fuel. The fuel composition is 100% bio-waste, and the heating is carried out in the reactor in an anoxic condition.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007276

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Shamala Devi A/P Vijaya Kumar ; Ibrahim Ismail Ali El Ganidi ; Norhayati Binti Abdullah ; Basem Saeid M Elarbe ; Norida Binti Ridzuan

(74) **Agent** : Ainoon Binti Shabirin C/O Intelleigen Zahia Intellectual Property Advisors

(54) **Title** : Flow Improvers For Crude Oils

(57) **Abstract** : A method for preparing a flow improver for crude oils, said method comprising: - dissolving an effective amount of monomers in a solvent followed by stirring in a three-neck flask in nitrogen, - adding benzoyl peroxide (BPO) into the solution drop by drop and maintaining the solution at room temperature; - subjecting the solution to a precipitation by adding methanol drop by drop thereto, with stirring thus instantly producing the targeted copolymer; - rinsing the copolymer with more methanol followed by filtration; and - drying overnight in a vacuum oven at 60 °C to obtain the final product (flow improver), wherein the monomers are selected from a group consisting of acrylic monomers to form a co-polymer (poly of stearyl acrylate-co-behenyl acrylate) characterized by a carbon chain length of C18-C22, stearyl acrylate (SA) and behenyl acrylate (BA).

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2021007279

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Tang Siah Ying ; Janarthanan Supramaniam

(74) **Agent** : Elina Maszura Binti Isa Abdillah C/O Marks & Clerk (Malaysia) Sdn. Bhd.

(54) **Title** : Self-Healing Article And Method Thereof

(57) **Abstract** : ABSTRACT SELF-HEALING ARTICLE AND METHOD THEREOF [0050] A wearable self-healing article comprising a rubber layer that reconstructs under a thermal condition of 80°C temperature for a duration of one hour, followed by relaxed condition under room temperature. A method of making is also disclosed herein. FIG. 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2021007281

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Ykl Engineering Sdn. Bhd.

(72) **Inventor(s)** : Hong Seng Kuan ; Ng Pei Kuan

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

(54) **Title** : Improvements On Biomass Fuel Press

(57) **Abstract** : The present invention relates primarily to an improved biomass fuel press for pressing and cutting fibrous material. Accordingly, the biomass fuel press (100) includes: i) at least one feed chamber (120) to receive fibrous material; ii) at least one pressing worm (160) rotating in a press chamber (140) to compress the fibrous material, cut it into shreds, and expel liquid contents from the fibrous material; characterized in that the pressing worm (160) is made up of a low-pressure worm (162), a medium-pressure worm (164), and a high-pressure worm (166); and wherein the press chamber (140) has a ring cage (170) configured to include a front ring press cage (172), a centre ring press cage (174), and a back ring press cage (176).

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2022006166

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

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

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

(72) **Inventor(s)** : Masao Fukuyama ; Hideo Getto ; Masaru Kato

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

(54) **Title** : Woody Board

(57) **Abstract** : To provide a woody board that is made from a palm trunk and low-impact on the environment. The woody board is produced by heat -press-molding an aggregation of elements E obtained by crushing a palm trunk. The elements E are bonded to each other with only adhesive materials contained in the elements by heat-press-molding.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006729

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

(30) **Priority Date** : 01 December 2021

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

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

(74) **Agent** : Andrew Siew Onn Thiun C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Method For Detecting Defects On Leadframe And Detection Model Based On Standard Leadframe

(57) **Abstract** : A method for detecting defects on a leadframe and a detection model based on a standard leadframe are provided, wherein the method includes: providing a standard leadframe including a plurality of standard units configured repeatedly in an array; obtaining a source image of the standard leadframe; when the standard leadframe meets a preset condition, establishing a first detection model according to the source image of the standard leadframe; providing a leadframe including a plurality of units corresponding to a plurality of standard units of the standard leadframe respectively; obtaining a source image of the leadframe; and detecting defects on the plurality of units according to the first detection model and the source image of the leadframe. The accuracy of the defect detection on the leadframe can be improved, and the over-rejection for the leadframe in the defect detection can be reduced.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : PI2022006806

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

(30) **Priority Date** : 02 December 2021

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

(72) **Inventor(s)** : Han, Hao ; Ho, Chi Chung ; Chan, Tat Chi ; Liao, Tung Ching

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(54) **Title** : Single-Sided Clamping Delivery Apparatus And Leadframe Inspection Equipment

(57) **Abstract** : The present disclosure provides a single-sided clamping delivery apparatus and a leadframe inspection equipment. The single-sided clamping delivery apparatus includes: a guide rail assembly including a defect inspection station, wherein the guide rail assembly includes two guide rails disposed opposite to each other to support a leadframe to be inspected; and a clamping assembly including at least two clamping components, wherein the at least two clamping components are disposed on a same side of the leadframe, and are respectively disposed on two sides of the defect inspection station along an elongation direction of the two guide rails to clamp and move the lead frame. The lead frame inspection equipment includes: a single-sided clamping delivery apparatus for delivering the leadframe to be detected to the defect inspection station; and a camera for taking a picture of the leadframe.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007222

(22) **Filing Date** : 02 December 2021

(30) **Priority Date** : NONE

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(54) **Title** : A Pipe Stiffener Having An Indicator

(57) **Abstract** : ABSTRACT A PIPE STIFFENER HAVING AN INDICATOR The present invention relates to a pipe stiffener (100) comprising a tubular body (1); a stopper (2) at first end of the tubular body (1); characterized by; an extended means (3) projected from the stopper (2); wherein the stopper (2) extends radially outward from the first end of the tubular body (1) and the extended means (3) bend towards the body (1) forming a recess for receiving a pipe; wherein the pipe stiffener (100) is fused to the pipe for receiving a fitting. The extended means (3) is seen externally so as to act as an indicator to indicate presence of the pipe stiffener (100) within the pipe. The pipe stiffener (100) is optionally compounded with luminescent material. Drawing accompanying abstract: Figure 1

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007238

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

(30) **Priority Date** : NONE

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(54) **Title** : A Method Of Synthesizing Water-Repellent Coating Composition For Polyester Fabric

(57) **Abstract** : THE PRESENT INVENTION RELATES TO A METHOD OF SYNTHESIZING WATER-REPELLENT COATING COMPOSITION FOR POLYESTER FABRIC. HEREIN, THE WATER-REPELLENT COATING COMPOSITION IS A SOL GEL SOLUTION CONSISTING OF AN ALKOXYSILANE PRECURSOR HYDROLYSED IN AN ACIDIC SOLUTION. THE ALKOXYSILANE PRECURSOR IS PREFERABLY HEXYLTRIMETHOXYSILANE (HTMS) AND THE ACIDIC SOLUTION IS PREFERABLY A MIXTURE OF WATER (H₂O), ETHANOL (ETOH) AND SULFURIC ACID (H₂SO₄). THE MOLAR RATIO OF THE WATER (H₂O), ETHANOL (ETOH), SULFURIC ACID (H₂SO₄) AND HEXYLTRIMETHOXYSILANE (HTMS) IS 3:0.4:1:1. THE METHOD OF SYNTHESIZING THE WATER-REPELLENT COATING COMPOSITION PARTICULARLY COMPRISES THE STEPS OF: (A) MIXING WATER (H₂O), ETHANOL (ETOH) AND SULFURIC ACID (H₂SO₄) TO OBTAIN AN ACIDIC SOLUTIONS; (B) ADDING HEXYLTRIMETHOXYSILANE (HTMS) INTO THE ACIDIC SOLUTIONS TO OBTAIN A MIXTURE SOLUTIONS; (C) COVERING THE MIXTURE SOLUTIONS USING AN ALUMINIUM FOIL TO OBTAIN A COVERED MIXTURE SOLUTIONS; AND (D) STIRRING SAID COVERED MIXTURE SOLUTIONS VIGOROUSLY AT A TEMPERATURE OF 30°C UNTIL OBTAINING A CLEAR WATER-REPELLENT COATING COMPOSITION.

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007247

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Lim Mook Tzeng ; Sureiyn Nimellnair

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(54) **Title** : A Gas Engine Using Non-Thermal Plasma Reactor For Decomposing Non-Combustible Gas For Improving Performance And Emission

(57) **Abstract** : The present innovation relates to a gas engine using non-thermal plasma reactor for decomposing non-combustible gas, more particularly the present innovation relates to a non-thermal plasma reactor for converting non-combustible gas to combustible volatile for improving performance and emission of the gas engine, the non-thermal plasma reactor comprising a dielectric barrier discharge reactor (23) having an outer conductor and an inner conductor, separated by dielectric material of an inner quartz tube and an outer quartz tube, and a plurality of copper sheets provided on inner surface of the inner quartz tube and outer surface of the outer quartz tube, and connected to a main power supply (31).

(12) MALAYSIAN PATENT APPLICATION

(21) **Application No.** : UI2021007264

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Abdelfateh Ouail

(72) **Inventor(s)** : Abdelfateh Ouail

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

(54) **Title** : A Social Network System For Connecting Islamic Entities With Each Other And General Users

(57) **Abstract** : ABSTRACT A SOCIAL NETWORK SYSTEM FOR CONNECTING ISLAMIC ENTITIES WITH EACH OTHER AND GENERAL USERS The present invention relates to a social network system (100) for connecting Islamic entities with each other and general users, comprising a terminal (2) in connection with a server (4) comprising a database (6), wherein the terminal (2) is operable to communicate with the other terminals (2) over a data communication network via a mobile application or a web application. Further, the terminal (2) allows communication among the Islamic entities and between the general users and the Islamic entities which comprise at least a local Islamic authority and at least a representative of a mosque. The terminal (2) comprises a content creation module configured to allow the Islamic entities to create a content and allow the general users and the other Islamic entities to react to the content, an authentication module configured to verify authenticity of the Islamic entities by the local Islamic authority, and a notification module configured to transfer information related to activities and events of the mosque to the general users. Accompanying drawing: [Figure 1]

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