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MALAYSIA INTELLECTUAL PROPERTY OFFICIAL JOURNAL

PATENT

15 October 2025
Batch 21/2025

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

GENERAL INFORMATION

1. In accordance with subsection 31(3) of the Patens Act 1983, the following patents have been granted.

2. In accordance with subsection 35(3) of the Patents Act 1983, the following patents are lapsed.

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

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

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

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

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

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

INTELLECTUAL PROPERTY OFFICIAL JOURNAL

Batch No.
21/2025

LAPSED

WITH EFFECT FROM DATE 15 OCTOBER 2025
THE FOLLOWING PATENTS /
UTILITY INNOVATIONS HAVE LAPSED

No.	Patent No.	Application No.
1	MY-135259-A	PI 20052969
2	MY-137839-A	PI 20053974
3	MY-141098-A	PI 20064059
4	MY-141110-A	PI 20060726
5	MY-141168-A	PI 20056023
6	MY-141183-A	PI 20064060
7	MY-141205-A	PI 20080178
8	MY-143085-A	PI 20060622
9	MY-143117-A	PI 20071558
10	MY-145608-A	PI 20081173
11	MY-145625-A	PI 20080462
12	MY-145629-A	PI 20092438
13	MY-145635-A	PI 20063958
14	MY-145639-A	PI 20083362
15	MY-148158-A	PI 20091514
16	MY-148168-A	PI 20080704
17	MY-148194-A	PI 20081574
18	MY-148199-A	PI 20054091
19	MY-148280-A	PI 20083726
20	MY-148353-A	PI 20090474
21	MY-150880-A	PI 20082244
22	MY-150885-A	PI 2012700469
23	MY-150922-A	UI 2012700369
24	MY-150963-A	PI 2011002348
25	MY-150978-A	PI 2012002137

PATENT

26	MY-151054-A	PI 20092125
27	MY-151071-A	PI 20084953
28	MY-153635-A	PI 20095153
29	MY-153641-A	PI 20092406
30	MY-153645-A	PI 2010000930
31	MY-153661-A	PI 20080625
32	MY-153669-A	PI 20083927
33	MY-153723-A	PI 2012001307
34	MY-153744-A	PI 2010001790
35	MY-153771-A	PI 2011000623
36	MY-153780-A	PI 2014702908
37	MY-153782-A	PI 2010006116
38	MY-153799-A	PI 2011001563
39	MY-153828-A	UI 2013700414
40	MY-153831-A	PI 2011005365
41	MY-153859-A	PI 2011000965
42	MY-153866-A	PI 2012004551
43	MY-156565-A	PI 2012004303
44	MY-156573-A	PI 2013701721
45	MY-156610-A	PI 2011000642
46	MY-156639-A	PI 2010005557
47	MY-156650-A	PI 2010005578
48	MY-156698-A	PI 2010001751
49	MY-156699-A	PI 2010002197
50	MY-156709-A	PI 2012005140
51	MY-156712-A	PI 2013000178
52	MY-156727-A	PI 2011005626
53	MY-156744-A	PI 2013002539
54	MY-156760-A	PI 2012003416
55	MY-156761-A	PI 2011002758

56	MY-156771-A	PI 2012700725
57	MY-156804-A	PI 2012004740
58	MY-156837-A	PI 2011005137
59	MY-156845-A	PI 2010005764
60	MY-160426-A	PI 20082845
61	MY-160434-A	PI 2010002061
62	MY-160471-A	PI 2012002736
63	MY-160492-A	PI 2012700351
64	MY-160497-A	PI 2015701196
65	MY-160504-A	PI 2012001620
66	MY-160531-A	PI 2012004179
67	MY-160549-A	PI 2011000910
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73	MY-160637-A	PI 2012001667
74	MY-160677-A	PI 2013002067
75	MY-160690-A	PI 2010003293
76	MY-160721-A	PI 2013004200
77	MY-160796-A	PI 2011002322
78	MY-160801-A	PI 2012003657
79	MY-160809-A	PI 2012002021
80	MY-160835-A	PI 2012004049
81	MY-160844-A	PI 2010003669
82	MY-160857-A	PI 20060439
83	MY-160927-A	PI 2012005186
84	MY-160929-A	PI 2013000625
85	MY-160967-A	PI 2013700208

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87	MY-165217-A	PI 2010002870
88	MY-165221-A	PI 2014001640
89	MY-165222-A	PI 2013701431
90	MY-165233-A	PI 2013004578
91	MY-165247-A	PI 2012000405
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96	MY-165462-A	PI 20053718
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98	MY-165511-A	PI 2013001750
99	MY-169229-A	PI 2016001022
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104	MY-169312-A	PI 2013700109
105	MY-169373-A	PI 2014701961
106	MY-169382-A	PI 2015002652
107	MY-174008-A	PI 2011004997
108	MY-174033-A	UI 2015701253
109	MY-174034-A	PI 2018702273
110	MY-174044-A	PI 2013702366
111	MY-174046-A	PI 2013700702
112	MY-174063-A	PI 2015703572
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114	MY-174073-A	PI 2015704346
115	MY-174082-A	PI 2012001162

116	MY-174087-A	PI 2015002435
117	MY-174159-A	PI 2014701997
118	MY-174168-A	PI 2015701996
119	MY-174178-A	PI 2016001522
120	MY-183592-A	PI 2015703374
121	MY-183594-A	PI 2018700022
122	MY-183631-A	PI 2010005262
123	MY-183639-A	UI 2012700018
124	MY-183649-A	PI 2016704774
125	MY-183653-A	PI 2016700111
126	MY-183673-A	PI 2016700227
127	MY-183677-A	PI 2016701045
128	MY-183683-A	PI 2018701238
129	MY-183714-A	PI 2018700548
130	MY-183717-A	PI 2013700016
131	MY-183722-A	PI 2017703240
132	MY-183725-A	PI 2015703021
133	MY-183728-A	PI2019005606
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135	MY-183733-A	PI 2017702502
136	MY-183739-A	PI 2013002482
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140	MY-183777-A	PI 20090587
141	MY-183781-A	PI 2013701524
142	MY-183799-A	PI2019004193
143	MY-183811-A	PI 2010004608
144	MY-183827-A	PI 2015704295
145	MY-183840-A	PI 2016704157

146	MY-183889-A	PI 2017703389
147	MY-183924-A	PI 2017700445
148	MY-183929-A	PI2020003238
149	MY-183931-A	PI2020002144
150	MY-183977-A	PI 2013002960
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152	MY-184027-A	PI 2015703093
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154	MY-184054-A	PI 2010700024
155	MY-184073-A	PI 2015702887
156	MY-184085-A	PI 2017702190
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161	MY-184111-A	PI 2017000540
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165	MY-184140-A	PI 2015702428
166	MY-184148-A	PI 2015704764
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186	MY-189822-A	PI 2017704108
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188	MY-189838-A	PI 2017702043
189	MY-189845-A	PI 2015700386
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210	MY-190103-A	UI2019004965
211	MY-190127-A	PI 2016703999
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215	MY-190133-A	UI 2018702866
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217	MY-190156-A	PI 2018001739
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220	MY-190175-A	PI 2018700349
221	MY-190179-A	UI 2017704972
222	MY-196009-A	PI2019002082
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224	MY-196028-A	PI 2016702891
225	MY-196035-A	PI 2017700966
226	MY-196045-A	PI 2018701072
227	MY-196047-A	PI2020000411
228	MY-196056-A	PI 2017704110
229	MY-196066-A	UI2019002085
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232	MY-196096-A	PI2019000338
233	MY-196099-A	PI2019000586
234	MY-196105-A	PI2020004945
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236	MY-196141-A	UI 2013702376
237	MY-196146-A	PI2019004127
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239	MY-196152-A	PI2021004063
240	MY-196164-A	UI 2018002306
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242	MY-196184-A	PI2020002351
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244	MY-196198-A	PI2019002415
245	MY-196209-A	UI 2017701370
246	MY-196210-A	UI 2017704439
247	MY-196217-A	PI2021001141
248	MY-196218-A	PI2019005512
249	MY-196245-A	PI2019003612
250	MY-196248-A	PI2019004072
251	MY-196272-A	UI2021001079
252	MY-196323-A	PI2021001185
253	MY-196340-A	PI 2018001527
254	MY-196358-A	PI 2015700130
255	MY-196363-A	PI2018002474
256	MY-196369-A	PI 2018700591
257	MY-196383-A	PI2019001742
258	MY-196385-A	PI2021004899
259	MY-196404-A	UI2019002429
260	MY-196415-A	PI2018002574
261	MY-196419-A	PI2020000911
262	MY-201569-A	PI2020001903
263	MY-201572-A	PI2020002501
264	MY-201573-A	PI2019006578
265	MY-201574-A	PI2021000826

266	MY-201583-A	PI2020000930
267	MY-201595-A	PI2020000790
268	MY-201598-A	PI2020006213
269	MY-201619-A	PI2020005444
270	MY-201622-A	PI 2018703881
271	MY-201623-A	PI2019004489
272	MY-201635-A	PI2020002415
273	MY-201637-A	PI 2018701476
274	MY-201639-A	PI2020001280
275	MY-201650-A	PI2020004629
276	MY-201651-A	PI2020001712
277	MY-201670-A	PI2019000563
278	MY-201693-A	PI2019002699
279	MY-201704-A	PI2019001312
280	MY-201710-A	PI2021002541
281	MY-201713-A	PI2020000173
282	MY-201721-A	PI2019003771
283	MY-201732-A	PI 2017000896
284	MY-201735-A	PI 2013701556
285	MY-201738-A	PI2021000681
286	MY-201740-A	PI2020006072
287	MY-201751-A	PI 2018700033
288	MY-201768-A	PI2019001249
289	MY-201771-A	PI2019004323
290	MY-201774-A	PI2019007495
291	MY-201782-A	PI2022003397
292	MY-201783-A	PI 2018701596
293	MY-201784-A	PI2019001221
294	MY-201791-A	PI 2018002243
295	MY-201794-A	PI2019002628

296	MY-201797-A	PI 2018702280
297	MY-201801-A	PI2019000053
298	MY-201806-A	PI2021001101
299	MY-201811-A	PI2019004361
300	MY-201812-A	PI2019003998
301	MY-201817-A	PI2020001384
302	MY-201835-A	PI2019004621
303	MY-201846-A	PI2019004502
304	MY-201849-A	PI2020002758
305	MY-201856-A	PI2019005039
306	MY-201859-A	PI2020000421
307	MY-201860-A	PI2019005305
308	MY-201868-A	PI2019006051
309	MY-201871-A	PI2020003352
310	MY-201874-A	PI2021000905
311	MY-201883-A	PI2021001275
312	MY-201894-A	PI2019000719
313	MY-201909-A	PI2019005610
314	MY-201925-A	PI2019007871
315	MY-201927-A	PI2020000217
316	MY-201939-A	PI2020004049
317	MY-201949-A	PI2021001344
318	MY-201950-A	PI2019001521
319	MY-201955-A	PI2019000399
320	MY-201956-A	PI2020000136
321	MY-201959-A	PI2023001891
322	MY-201961-A	PI2019006605
323	MY-201964-A	PI2021006565
324	MY-201967-A	PI2020000875
325	MY-201972-A	PI2019002168

326	MY-201973-A	PI2019001696
327	MY-201976-A	PI2019007060
328	MY-201977-A	PI2019002240
329	MY-201995-A	PI2021000090
330	MY-202003-A	PI 2017703394
331	MY-202015-A	PI2019006327
332	MY-202016-A	PI2019007146
333	MY-202019-A	PI2019001971
334	MY-202024-A	PI 2018001431
335	MY-202042-A	PI2021001815
336	MY-202048-A	PI2020005355

ERRATA

The following patent published as lapsed should be disregarded.

No.	Patent No.	Application No.	Date of Published as Lapsed Patent
1	MY-189670-A	PI 2017703626	17 SEPTEMBER 2017

REINSTATEMENT OF LAPSED PATENT

In accordance with Section 35A(3) of the Patents Act 1983, the following Patents are reinstated.

No.	Patent No.	Application No.	Date of Published as Lapsed Patent
1	MY-151308-A	PI 2011001110	04 DECEMBER 2024
2	MY-161995-A	PI 2010005261	04 DECEMBER 2024
3	MY-165829-A	PI 2013002387	04 DECEMBER 2024
4	MY-165830-A	PI 2011000803	04 DECEMBER 2024
5	MY-185632-A	PI 2014700179	04 DECEMBER 2024
6	MY-185681-A	PI 2016001296	04 DECEMBER 2024
7	MY-190896-A	UI 2018701502	04 DECEMBER 2024
8	MY-190944-A	PI 2016704839	04 DECEMBER 2024
9	MY-197038-A	PI 2018702515	04 DECEMBER 2024

CHANGE OF PUBLISHED PATENT

The following patent that have been published earlier should have read as follows :

NO	PATENT NO	APPLICATION NUMBER	DATE OF GRANT
1	MY-207261-A	PI2021000319	11 FEBRUARY 2025

(12) **MALAYSIAN PATENT**

(11) **MY-207261-A**

(21) **Application No. :** PI2021000319

(22) **Filing Date :** 18 July 2019

(47) **Date of Grant :**
11 February 2025

(30) **Priority Data :**
1850932-3; 23/7/2018; SE

(51) **Classification, INT CL :**
G07D 11/40
G07D 11/60
G07F 19/00
G07D 11/125
G07D 11/23
G07D 11/26

(56) **Prior Art :**
US 2004222284 A1
US 2009057423 A1
US 2010264208 A1
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US 2018053383 A1
US 6719120 B2
US 7370792 B1
EP 0307526 A1
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WO 8500905 A1
JP 2002260057 A

(72) **Inventors :**
SJÖSTRÖM, Anders
JOHANSSON, Andreas

(73) **Patent Owner :**
SCAN COIN AB
Nordenskiöldsgatan 24
211 19 Malmö
Sweden

(74) **Agent :**
Chuah Jern Ern
Info@Dccadvanz.Com

(54) **Title :** Cash Depositing and Dispensing Machine and a Method for Accessing a Cash Depositing And Dispensing Machine

(57) **Abstract :**

The disclosure relates to a cash depositing and dispensing machine (100) comprising: a machine body (105) having outer circumferential walls (106), and an arrangement (110) comprising: a cash input/output unit (120) having an interface (122) for allowing depositing and dispensing of cash, a cash handling unit (130), and a cash storage unit (140), wherein said cash input/output unit (120), said cash handling unit (130), and said cash storage unit (140) being arranged in relation to each other in relation to said machine body (105) between: a closed position (P1) for which the outer circumferential walls (106) of the machine body (105) enclose the cash handling unit (130) and the cash storage unit (140) so as to prevent access thereto, and a service position (P2) and a cash access position (P3) for which at least the cash handling unit (130) protrudes from the machine body (105) so as to allow access thereto.

Figs. 1a and 1b.

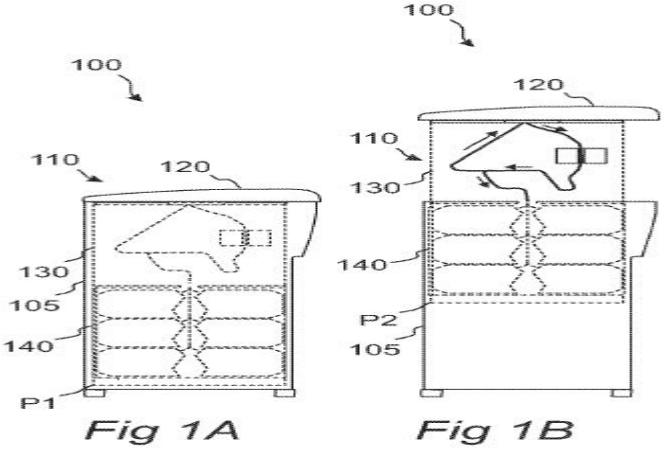

Fig 1A Fig 1B

18 MONTH PUBLICATION

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024001831

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Cape Ems Manufacturing (M) Sdn Bhd

(72) **Inventor(s)** : Tan Juan Boon ; Edmund Wu

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

(54) **Title** : A Vapor Inhalation Device

(57) **Abstract** : The present invention discloses a vapor inhalation device comprising a power source (100); a reservoir (200) for holding liquid to be vaporized; an ultrasonic module (300) disposed downstream, in terms of fluid flow, of the reservoir (200) for vaporizing the liquid; a frequency adjustment module (400) operatively connected to the ultrasonic module (300) for adjusting a frequency of vibration of said ultrasonic module (300); and a delivery system (500) for directing flow of vapor through a mouthpiece (501) to a user; wherein the ultrasonic module (300) is configured to vibrate at variable frequencies to atomize liquid drawn from the reservoir (200), causing the vapor to be formed of different densities based on the frequency of vibration and exit through the delivery system (500). (The most illustrative figure: FIG. 1)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024001913

(22) **Filing Date** : 29 March 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Thinkn Insurtech Services Sdn Bhd

(72) **Inventor(s)** : Goh Hong Loong

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

(54) **Title** : System And Method For Validating Insurance Claim

(57) **Abstract** : Embodiments relate to a system (1) and method for validating insurance claim. The system (1) comprising an input module (10) configured to receive required documents for insurance claim from a user; an optical character recognition, OCR module (20) connected to the input module (10), wherein the OCR module (20) is configured to convert the documents into a machine-encoded text and to extract data from the documents; and a processor (30) connected to the OCR module (20), wherein the processor (30) is configured to analyse the extracted data to assess the validity of the insurance claim, to populate the extracted data into a standardised reporting template and to flag a report for further investigation if a potential fraud is detected.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024001925

(22) **Filing Date** : 29 March 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Exis Tech Sdn Bhd

(72) **Inventor(s)** : Lee Heng Lee

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

(54) **Title** : System And Process For Electrical And Acoustic Testing A Single Component

(57) **Abstract** : ABSTRACT SYSTEM AND PROCESS FOR ELECTRICAL AND ACOUSTIC TESTING A SINGLE COMPONENT The present invention relates to a system (100) for electrical and acoustic testing of a single electronic component, comprising a turret handler (10) comprises a plurality of sound isolation modules (11); characterized by each of the sound isolation module (11) comprises a movable test station (24) having a test socket (20) for receiving the single electronic component wherein pogo pins assembly positioned at the bottom of the test socket (20), a chamber (21) having a gate (32) controlled by a pneumatic actuator, a linear actuator (22) for shuttling the test station (24) into or out of the chamber in Y-axis and a test pusher (33) driven by pneumatic actuator; wherein the gate (32) of the chamber (21) is configured to move in Z-axis in sealing the chamber (21) as the test station (24) arrives under the test pusher (33) and opening the chamber (21) as the test pusher (33) lifts up; wherein the test pusher (33) presses down on the single electronic component sitting in the test socket (20) to seal the test socket (20) and to initiate the test, and lifts up once the test is completed. A process for electrical and acoustic testing using the system (100) is also disclosed herein. Accompanying drawing: [Fig. 1]

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024001938

(22) **Filing Date** : 29 March 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Billion Prima Sdn. Bhd

(72) **Inventor(s)** : Ameer Safuan Bin Muhamad Kahiri ; Goh Chu Leong ; Lee Yuh Jiunn

(74) **Agent** : Ahmad Fadzlee Bin H A Rashid C/O Ipvolusi Sdn. Bhd.

(54) **Title** : A Method For Calibrating Material Discrimination In A Cargo Inspection System

(57) **Abstract** : The present invention relates to methods for calibrating material discrimination of the cargo inspection system (100). These methods are employed to compensate for X-ray dosage fluctuations in material discrimination by automatically calibrating the configuration file of the cargo inspection system (100). As a result, the methods ensure the cargo inspection system (100) maintains consistency in material discrimination in its imaging results over time.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024001949

(22) **Filing Date** : 31 March 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Yeow Teck Ann ; Mong Guo Ren ; Ngan Cheng Loong ; Woon Kok Sin ; Yeap Swee Keong ; Hui Yew Woh ; Yuana Elly Agustin ; Tey Ker Yee ; Malvin ; Tan Jian Ping

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

(54) **Title** : A Method For Inducing Sporulation And Enhancing Microbial Immobilization On Agricultural Biomass-Based Fibres

(57) **Abstract** : The present invention discloses a method (100) for enhancing microbial immobilization and induces sporulation on agricultural biomass-based fibres. Initially, fibres are obtained from agricultural biomass (102) and processed through a press de-liquefying and fibre expansion process (104), resulting in elongated fibres with a porous structure and increased surface area. Subsequent steps comprises regulating fibre size through a grinding and sieving process (106), followed by a drying heat treatment (108) to enhance microbial entrapment. The method (100) further comprises formulating a medium of fermentation that includes native organic matter (110) such as composted materials and plant waste, wherein the native organic matter are loaded in original form, in form of extractives or in form of derivatives. Thereafter, the method (100) comprises conducting preparative fermentation and a gradual ramping heat treatment (114) for inducing forced sporulation. Dormancy and germination of immobilized spores are maintained by manipulating dissolved oxygen and oxidation-reduction potential (116). The most illustrative drawing is Figure 1.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024001979

(22) **Filing Date** : 01 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Madiah Binti Omar ; Rosdiazli Bin Ibrahim ; Mohd Faris Bin Abdullah ; Mochammad Faqih

(74) **Agent** : Yap Kah Hong C/O Pyprus Sdn Bhd

(54) **Title** : Dry-Low Emission Gas Turbine Model Simulator For Digital-Twin And Predictive Maintenance

(57) **Abstract** : The Dry-Low Emission (DLE) gas turbine model simulator having a digital-twin of a DLE gas tubine adapted for predictive maintenance, the simulator comprises a processor, a processor-executable program, a memory storage being coupled with the processor, and a display unit being coupled with the processor; wherein the processor-executable program comprises a command module and a DLE gas turbine modified Rowen's model 1'; wherein the DLE gas turbine modified Rowen's model (1') comprises a valve positioner block (110') controlling gas control valve positioning by utilizing the ratio of the pilot fuel valve x1 and the ratio for the main fuel valve x2, and wherein the DLE gas turbine modified Rowen's model (1') further comprises integrating Compressor Discharge Pressure, CDP, correlated variables including load demand, air inlet temperature, IGV opening, pilot fuel valve command, pilot fuel valve opening, main fuel valve command, main fuel valve opening, turbine temperature, rotor speed, and power output.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024001984

(22) **Filing Date** : 01 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Siti Aishah Binti Hasbullah

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

(54) **Title** : Mercury Ion Sensor Based On Tris-Thiourea Ionophore

(57) **Abstract** : ABSTRACT The present invention relates to a mercury ion sensor utilizing a new compound that has an electron-donating group (methyl) that accelerates up the transfer of electrons to the thiol group, thus improving its ability to bind to the Hg ion. The mercury ion sensor comprising a tris-thiourea ionophore characterised in that the tris-thiourea ionophore is N,N′,N″-((nitrilotris(ethane-2,1diyl))tris(azanediyl)) tris(2toluylcarbonothioyl)) tribenzamide. The immobilization of tris-thiourea ionophore on graphene oxide (GO) support the ionophore while preventing the ionophore from leaching out. Advantageously, it is increases electron transfer to the transducer and the sensitivity of the sensor. Most illustrative Figure is Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024001990

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Nanomalaysia Berhad

(72) **Inventor(s)** : Tan Chun Hui ; Low Jen Hahn ; Lim Eng Hock ; Chee Pei Song ; Chua Bing Wei

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

(54) **Title** : An Electronic Textile, A Rectenna Assembly, And A Method For Producing The Rectenna Assembly

(57) **Abstract** : The present invention relates to an electronic textile for transmitting and receiving power. The present invention also relates to a rectenna assembly seamlessly integrated into a textile fabric. The rectenna assembly comprises a multi-layer antenna structure (100), featuring a conductive fabric patch (106) as the top layer, a conductive fabric ground (102) as the bottom layer, and a microfiber (104) textile serving as a substrate for the patch. The antenna assembly (100) is equipped with at least one rectifier (200), connected to the antenna through a flexible conductive paste, with the rectifier (200) situated on a flexible polyimide substrate. The present invention also relates to a method for producing the rectenna assembly. Such innovative configuration allows for the creation of functional and flexible electronic textiles with the potential for energy harvesting applications. Fig. 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024001998

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Skyechip Sdn Bhd

(72) **Inventor(s)** : Chew Jaw Wen ; Lee Chun Wei

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

(54) **Title** : Circuitry For Low-Dropout Regulator With Overvoltage Protection Circuit

(57) **Abstract** : ABSTRACT CIRCUITRY FOR LOW-DROPOUT REGULATOR WITH OVERVOLTAGE PROTECTION CIRCUIT The present invention relates to a process (100) for regulating power supply using a low-dropout regulator, the method comprising the steps of: monitoring voltage levels (110) by a power detector (50); detecting voltage level (120) based on a predetermined first voltage level as high voltage and a second voltage level as medium voltage, wherein the high voltage powering up first followed by the medium voltage; characterised by performing shifting bias mechanism (140) and fix bias mechanism (130) based on the detected voltage levels (150); and regulating output voltage based on feedback loop utilizing the actual output voltage of the source follower (30) and a predetermined safe voltage as a reference; wherein the shifting bias mechanism (140) is performed when high voltage is detected during the initial power up of the high voltage rail, comprises of turning on (141) the overvoltage protection circuit (40), lowering actual bias voltage (142) to counter back the required high bias voltage, and applying the actual bias voltage (143) for a feedback system; wherein the fix bias mechanism (130) is performed when medium voltage is detected, comprises of turning off (131) the overvoltage protection circuit (40) and applying a fixed voltage reference (132) to an actual pass gate of source follower (30) for the feedback system enabling an instant startup together with the medium voltage when it powers up. The present invention also relates to a circuitry system (200, 200a) for the process thereof. Accompanying drawing: [Fig. 1]

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024001999

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Nanomalaysia Berhad

(72) **Inventor(s)** : Intan Helina Hasan ; Farah Nabilah Binti Shafiee ; Muhammad Asnawi Bin Mohd Kusaimi

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

(54) **Title** : A Thermal Paste Composition And Method Of Preparing The Same

(57) **Abstract** : ABSTRACT A THERMAL PASTE COMPOSITION AND METHOD OF PREPARING THE SAME The present invention relates to a thermal paste composition having thermal conductivity, comprising: an active material; and an organic binder; characterized in that the active material comprising a mixture of multi-walled carbon nanotubes, graphite, and carbon black and the organic binder comprising polymer and organic solvent. Further, a method of preparing the thermal paste composition is disclosed. Drawing accompanying abstract: Figure 2

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002016

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Skyechip Sdn Bhd

(72) **Inventor(s)** : Tan Tat Hin ; Chew Jaw Wen ; Selvakumar Sivarajah ; Wilfred King Wee Kee

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

(54) **Title** : Circuitry System And Method For Regulating Voltage Thereof Using Dynamic Decoupling Capacitor

(57) **Abstract** : ABSTRACT CIRCUITRY SYSTEM AND METHOD FOR REGULATING VOLTAGE THEREOF USING DYNAMIC DECOUPLING CAPACITOR The present invention relates to a circuitry system (1). The circuitry system (1) comprises a reservoir power rail (12), a regulated power rail (14), a logic circuitry (18) connected to the regulated power rail (14), wherein each of the reservoir power rail (12), regulated power rail (14) and logic circuitry (18) is connected to respective voltage supply source (16), characterized by a dynamic decoupling capacitor (10) connecting the reservoir power rail (12) to the regulated power rail (14), and in communication with the logic circuitry (18), wherein the dynamic decoupling capacitor (10) is configured to match a total-charge of injected-current, Idecap, from the reservoir power rail (12) with a total-charge of load-current, Iload, supplying to the logic circuitry (18). A method for regulating voltage of the circuitry system (1) is also disclosed herein. The most illustrative figure: Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002017

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Siti Fatimah Zaharah Binti Mohd Fuzi ; Nor Hasmaliana Binti Abdul Manas ; Nur Izyan Wan Azelee ; Nasratun Masngut ; Muhammad Abd Hadi Bunyamin

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

(54) **Title** : An Adsorbent Composite For Pollutant Removal

(57) **Abstract** : The present invention relates to an adsorbent composite (1) comprising a porous adsorbent material (2) of biochar, and a surface modifying agent (4), and a conjugating agent (3) of citric acid present at 0.5 – 10 % by weight of the total composition. The adsorbent composite (1) can be used for removal of pollutants, namely heterocyclic aromatic hydrocarbons, namely carbazole with adsorption capacity and removal rate of 392.03 mg/g and 98.01 % respectively. (The most illustrative figure: Figure 1)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002046

(22) **Filing Date** : 04 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Siti Nurbaya Oslan ; Adam Leow Thean Chor ; Abu Bakar Salleh ; Che Haznie Ayu Che Hussain

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

(54) **Title** : Method Of Preserving Microbial Cells And Protective Agent Thereof

(57) **Abstract** : The present invention discloses a method of preserving a microbial cell and a protective agent thereof. The method comprises the steps of adding a protective agent to the microbial cell to form a resuspension with a water, and subjecting the resuspension to drying. The protective agent is a coconut milk.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002052

(22) **Filing Date** : 05 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Coswald Stephen Sipaut@Mohd Nasri ; Angel Uok Mei Erh ; Kessnia Ira Ng ; Saria Saalah ; Noor Maizura Ismail

(74) **Agent** : NONE

(54) **Title** : Design, Processing & Production Plant Of Indigo Denim Dye Fixing Agent

(57) **Abstract** : The university product, the indigo denim dye fixing agent had successful penetrated the industry, as it showed the commercialisation potential for large-scale production. The upscaling process from lab scale (100 mL) to industry scale (3 to 4 tonnes) had undergoes much careful consideration, especially on the processing parameters, and changes in chemical grade, whilst retaining its performance of grade level '3' AATCC wet crocking test. Hence the indigo denim dye fixing agent plant is designed based on the formulated indigo denim dye fixing agent synthesis process. The indigo denim dye fixing agent is consisted of three single or batch processing line. Whereby the plant is consisted of a platform, and three reactor sets with various connected pipeline.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002053

(22) **Filing Date** : 05 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Assoc. Prof. Dr. Ismail Saad ; Dr. Chung Seng Kheau ; Assoc. Prof. Ir Dr Nurmin Bolong ; Assoc. Prof. Dr. Renee Chin Ka Yin ; Dr. Tham Heng Jin ; Dr. Mohd. Suffian Misran @ Misaran ; Ir. Dr. Yew Hoe Tung ; Dr. Mariani Rajin ; Ir. Pungut Ibrahim ; Dr. Jodin Makinda

(74) **Agent** : NONE

(54) **Title** : Integrated Electronic Quantitative Outcome-Based-Education (Obe) Platform

(57) **Abstract** : An integrated educational electronic platform revolutionizes educational data analysis and decision-making. Comprising a processor and memory the platform integrates diverse educational outcomes with external data. A server hosts this system, incorporating an analysis engine for outcome score assessment and performance measurement. Educators and administrators gain actionable insights, enhancing teaching methods and course content. A versatile report generator facilitates outcome analysis. Furthermore, the system employs a personalized dashboard offering individualized insights for learners, educators, and administrators. Course-level and program level outcome analyses foster curriculum enhancement, ensuring program alignment and driving evidence-based improvements. An integrated GPA calculation module factors in program attributes, providing a comprehensive view of student performance. Continuous Quality Improvement (CQI) integration further enhances the system, promoting early intervention and reinforcing strengths. The platform empowers stakeholders to make informed decisions, elevating educational quality and effectiveness.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002062

(22) **Filing Date** : 05 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Asmah Hamid ; Nur Rasyiqin Rasli ; Normah Awang ; Nurul Farahana Kamaludin

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

(54) **Title** : Organotin(Iv) Compounds And Their Use As Anti-Cancer Agents

(57) **Abstract** : The present invention provides an organotin(IV) dithiocarbamate compound, which can be selected from the group consisting of: (i) diphenyltin(IV) diisopropyl dithiocarbamate (ODTC 1), (ii) diphenyltin(IV) diallyl dithiocarbamate (ODTC 2), (iii) triphenyltin(IV) diisopropyl dithiocarbamate (ODTC 3), (iv) triphenyltin(IV) diallyl dithiocarbamate (ODTC 4), (v) triphenyltin(IV) diethyl dithiocarbamate (ODTC 5), (vi) dimethyltin(IV) diisopropyl dithiocarbamate (ODTC 6), and (vii) dimethyltin(IV) diethyl dithiocarbamate (ODTC 7). The organotin(IV) dithiocarbamate compound according to the present invention is an effective anti-cancer agent and suitable for the treatment of leukemia. Also disclosed herein is a method of preparation, pharmaceutical preparation comprising the compound and use thereof. Figure 2A

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002071

(22) **Filing Date** : 05 April 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Taizhou Zhenhao Technology Co.,Ltd.

(72) **Inventor(s)** : Ping He

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

(54) **Title** : Self-Heating Production Line For Polymer Material Infiltration Film-Forming Product

(57) **Abstract** : The present invention relates to a self-heating production line for a polymer material infiltration film-forming product, which comprises a machine bracket and a transmission device arranged on the machine bracket; the transmission device is connected with a mold, and the mold passes through each production process one by one through the transmission device; the mold is provided with a heating module and an electrical connection part connected with the heating module, and each production process is respectively provided with a power-off zone, a breakpoint heat preservation zone and/or a heating zone; accurate heating and intermittent heating are realized, thus reducing the power consumption of the production line. Fig 3.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024002131

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

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Leo Bey Fen ; Subhashini A/P Raj Kumal ; Thong Kwai Lin ; Mohd Rafie Bin Johan

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

(54) **Title** : A Method For Preparing A Biosensor For Detecting Bacteria Contamination In A Food Sample

(57) **Abstract** : The present invention relates to a method for preparing a biosensor for detecting bacteria contamination in a food sample (100), comprising the steps of: pre-treating an activated working electrode (110) which further comprises the steps of: rinsing a working electrode with distilled water (120); dipping the rinsed electrode into a solution containing 8.3% v/v graphene oxide and 16.7% v/v PEDOT:PSS (130); applying a chronoamperometry means with potential voltage of 1 V for 100 s to deposit GO/PEDOT:PSS unto the surface membrane of the electrode (140) to fabricate GO/PEDOT:PSS electrode; rinsing the electrode with distilled water (150); adding 9 µl of EDC/NHS coupling in phosphate buffer solution drop-wise unto the surface of the electrode (160) as cross-linker for surface modification; incubating the electrode for 1 hour (170); characterised in that: adding 9 µl of aptamer in phosphate buffer unto the surface of the electrode (180) to immobilize the aptamer unto the surface GO/PEDOT:PSS (180) as targeted biorecognition means for binding and detecting bacteria; incubating the electrode for 1 hour (190); rinsing the electrode with distilled water (200); drying the electrode (210); adding 9 µl of food sample drop-wise unto the surface electrode (220); incubating the electrode for 15 minutes (230); rinsing the electrode with distilled water (240); adding 100 µl solution containing 50 mM potassium ferricyanide in ultrapure water drop-wise unto the w electrode (250); and applying a differential pulse voltammetry means with 0.01V step potential, 0.03 V pulse potential and 50 ms pulse time (260) to the electrode to detect the binding of bacteria to the aptamers on the electrode surface. Drawing accompanying abstract: Figure 1-3

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002164

(22) **Filing Date** : 13 April 2024

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Jf Microtechnology Sdn. Bhd.

(72) **Inventor(s)** : Goh Kok Sing ; Foong Wei Kuong ; Lee Eng Kiat ; Shamal Mundiyath ; Goh Kee Shan

(74) **Agent** : Toong Jo-Han C/O Pangaea Ip Consultants

(54) **Title** : Test Contact For A Pin-Type Device With A Square Or Round Cross-Section

(57) **Abstract** : An electrical contact for electrically connecting a device pin of an integrated circuit (IC) device-under-test and a load board of the testing apparatus, the electrical contact having a crossed pair of contact pins with each pin having a pair of upwards-extending arms that intersect perpendicularly the pair of arms of the other pin, so that all four arms form a square configuration, with each arm at a 90° angle to the arm next to it. A top pin has a bridge that saddles between the arms, and over a shoulder of the bottom pin, so that the top and bottom pins are not in contact with each other.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002177

(22) **Filing Date** : 15 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Dr. Erwan Bin Sulaiman ; Hassan Ali Soomro ; Mohd Fairoz Bin Omar

(74) **Agent** : Maniam A/L Mahalingam C/O Ip Rights (M) Sdn. Bhd

(54) **Title** : New Structure Of Hybrid Flux Switching Motor Using Segmental Motor

(57) **Abstract** : The invention introduces a new structure of a flux switching motor which has a robust rotor structure and which consists of permanent magnet and field excitation coil as the main flux, placed at the stator and where the field excitation coil has the ability to control the flux enabling it to produce higher torque and power, attainable by using a single piece of segmental rotor which makes the motor more robust. The main aspect of this method is the design of the segmental rotor. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024002178

(22) **Filing Date** : 15 April 2024

(30) **Priority Date** : NONE

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

(72) **Inventor(s)** : Dr. Suraya Hani Binti Adnan ; Zalipah Binti Jamellodin ; Noor Shuhada Binti Mohammad ; Wan Yuslinda Binti Wan Yusof ; Prof. Dr. Hamidah Binti Mohd Saman

(74) **Agent** : Maniam A/L Mahalingam C/O Ip Rights (M) Sdn. Bhd

(54) **Title** : A New Composite Materials For Strengthening And Repair Works

(57) **Abstract** : This invention relates to a composite construction material, made from a combination of textile fabric and fine grained mortar made of rice husk ash, which provides an alternative to strengthen and repair concrete structures. FGM is a special binder system which is achieved by using small maximum grain size of 1 mm. FGM mixed are content of OPC. RHA, fine sand, water and superplasticizer. The cement used in this investigation consists of market available that is OPC. Fig. 1 shows the production of RHA from rice husk until it becomes a powder. RHA produced from control combustion in 600 temperature of rice husk. After the burning process, RHA was grounded for 5 minutes by using a ball mill grinder. This machine consist of rotating drum up and down with 12 steel balls in the drum for grinding. After grinding process, RHA in the form of powder was tested by using particle size analyzer to make sure RHA is 97% and above passing sieve 45μm same with OPC. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002702

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

(30) **Priority Date** : 02 April 2024

(71) **Applicant(s)** : Cs Construction & Geotechnic Pte Ltd

(72) **Inventor(s)** : Kevin Chong Kwong Hsen ; Max Wan Bao Yuan ; Gwee Boon Hong ; Danny Lim Yong Keng

(74) **Agent** : Justin Anandan Santiago C/O Nanyang Ip Sdn. Bhd.

(54) **Title** : Precast Pile Assembly With Unitary Socket Module

(57) **Abstract** : A precast pile assembly (100) is formed from a first precast pile (20), a second precast pile (30), a first end plate (40) attached to the first precast pile (20) and a first collar plate (70). The first end plate (40) defines at least one opening (47), a second end plate (50) attached to the second precast pile (30) and a second collar plate (80), and a projection (45) which extends from the first precast pile (20) through a corresponding opening (47), wherein the second end plate (50) defines a hole (57) adapted to receive one of the corresponding projections (45) from the first end plate (40) wherein each projection (45) defines a channel (46) extending through the projection (45), and a bolt (64) and a unitary socket module (60). The unitary socket module (60) defines a bolt passageway (62) and a projection passageway (65). The bolt (64) extends through the channel (46) of the corresponding projection (45) and holds the corresponding projection (45) with respect to the bolt (64). Fig. 4

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024002783

(22) **Filing Date** : 13 May 2024

(30) **Priority Date** : 28 March 2024

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

(72) **Inventor(s)** : Shu-Hao Chang

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

(54) **Title** : Resin Composition And Article Manufactured Using The Same

(57) **Abstract** : A resin composition includes 100 parts by weight of a vinyl-containing polyphenylene ether resin; 20 parts by weight to 60 parts by weight of a compound represented by the following formula (1); and 20 parts by weight to 60 parts by weight of an ethylene-styrene-divinylbenzene terpolymer, Formula (1) wherein n is an integer ranging from 1 to 20. An article manufactured using the aforesaid resin composition is also provided. Figure 2

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024002950

(22) **Filing Date** : 20 May 2024

(30) **Priority Date** : 02 April 2024

(71) **Applicant(s)** : Dreame Innovation Technology (Suzhou) Co., Ltd.

(72) **Inventor(s)** : Xiong,Chenggang

(74) **Agent** : Noorserra Aryecca Binti Armat C/O Dreven Capital

(54) **Title** : Active Obstacle Crossing Control Method And System For Cleaning Robot, And Cleaning Robot

(57) **Abstract** : The present disclosure relates to an active obstacle crossing control method and system (400) for cleaning robot, and a cleaning robot, the cleaning robot comprises an active obstacle crossing mechanism and an obstacle crossing driving device that drives the motion of the active obstacle crossing mechanism, the method comprises in case where an obstacle (2) is on the cleaning path, identifying (S201) the height of the obstacle (2) and the material type of the contact surface before the cleaning robot crosses the obstacle (2); in case where the height of the obstacles (2) matches a predefined obstacle crossing height range corresponding to the material type, activating the active obstacle crossing function (S202). (Most illustrative figure: Fig. 2)

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024003538

(22) **Filing Date** : 18 June 2024

(30) **Priority Date** : 12 April 2024

(71) **Applicant(s)** : Guangzhou Baiyi Intelligent Equipment Co., Ltd

(72) **Inventor(s)** : Feifei Yu ; Wenjian Tang ; Qingxin Zhong

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

(54) **Title** : Double-Sheet Detection Device

(57) **Abstract** : The present disclosure relates to the technical field of double-sheet detection, and discloses a double-sheet detection device. The double-sheet detection device includes a paper feeding machine body, wherein a main body plate is arranged on an outer side of the paper feeding machine body; a detection mechanism is arranged on an inner side of the main body plate; the paper feeding machine body is provided with a storage assembly; the detection mechanism includes a U-shaped plate; and the U-shaped plate is arranged on the inner side of the main body plate. Due to the design of the detection mechanism, when a detection wheel rolls on the paper feeding machine body, after a piece of paper passes, a moving distance of the detection wheel on the paper is matched with a thickness of the paper, so as to determine the number of pieces of paper and achieve the purpose of double-sheet detection. Furthermore, once a paper overlapping situation occurs, a suction cup may be operated to suck the paper at the uppermost end of the overlapping paper, thus achieving the purpose of taking the overlapping paper and avoiding the phenomenon that after a double-sheet overlapping situation has been detected, the paper needs to be taken out manually. Fig 7.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024004902

(22) **Filing Date** : 23 August 2024

(30) **Priority Date** : 12 April 2024

(71) **Applicant(s)** : Top Rank Technology Limited

(72) **Inventor(s)** : Lee, Meng-Yu ; Wang, Cheng-Yu ; Wang, Tzu-Yu ; Wang, Tien-Lai

(74) **Agent** : Wong Qi Yuen C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Liquid-Cooling Heat Dissipation Plate And The Lithium Battery Module Containing The Same

(57) **Abstract** : A liquid-cooling heat dissipation plate, including: two heat dissipation components including a rectangular plate having oppositely an inner surface and an outer surface. Three edges of the inner surface are surrounded by a U-shaped frame with predetermined heights, the inner surface has a plurality of heat dissipation pillars protruding therefrom. The liquid-cooling heat dissipation plate is formed by joining and welding one of the heat dissipation components to the other with the inner surfaces facing to each other, and also resulting in formation of a liquid-flow chamber. At least one liquid inlet is provided to allow a cooling fluid to enter the liquid-flow chamber, and at least one liquid outlet is provided to allow the cooling fluid to exit the liquid-flow chamber, wherein the liquid inlet and the liquid outlet are arranged at the same side or different side of the liquid-cooling heat dissipation plate. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024005000

(22) **Filing Date** : 28 August 2024

(30) **Priority Date** : 12 April 2024

(71) **Applicant(s)** : Top Rank Technology Limited

(72) **Inventor(s)** : Lee, Meng-Yu ; Wang, Cheng-Yu ; Wang, Tzu-Yu ; Wang, Tien-Lai

(74) **Agent** : Wong Qi Yuen C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Liquid Cooling Heat Dissipation System

(57) **Abstract** : A liquid-cooling heat dissipation system includes: a liquid-cooling vapor chamber, a liquid-cooling heat dissipation plate, a first and a second coolant pipelines connecting the two, a coolant circulation machine, a fan, and a cooling liquid. The liquid-cooling vapor chamber includes a liquid-cooling cover, a metallic top cover, and a metallic bottom cover. The liquid-cooling heat dissipation plate includes a heat dissipation bottom plate and a heat dissipation outer cover. The coolant circulation machine pumps the cooling liquid from the first coolant pipeline into the liquid cooling cover, and then flows into the liquid-cooling heat dissipation plate. The fan locked on the bottom plate outer surface blows air to the liquid-cooling heat dissipation plate, so that the cooling liquid is cooled when flowing through the second accommodation space in the liquid cooling heat dissipation plate, and then flows back to the coolant circulations machine for recirculation. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024005950

(22) **Filing Date** : 14 October 2024

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

(71) **Applicant(s)** : Chih Shiue Yan ; Sfp Technology Sdn Bhd

(72) **Inventor(s)** : Chih Shiue Yan

(74) **Agent** : Bahari Yeow Tien Hong* C/O Bahari Yeow, Lim Zhi Jian C/O Rds

(54) **Title** : Diamond Substrate And Method For Manufacturing The Same

(57) **Abstract** : Disclosed is a manufacturing method of a diamond substrate, comprising a seed crystal preparing step of preparing seed crystal for a single crystal of high temperature/ high pressure grown diamond or for a single crystal of vapor deposition grown diamond, a first growing step of growing the seed crystal through microwave plasma chemical vapor deposition method to obtain a first crystal, a second growing step of growing the first crystal through microwave plasma chemical vapor deposition method to obtain a second crystal, and a third growth step of growing the second crystal through a microwave plasma chemical vapor deposition method to obtain a diamond substrate.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024006437

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

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

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

(72) **Inventor(s)** : Bill Yang

(74) **Agent** : Jyeshta Mahendran C/O Shearn Delamore & Co.

(54) **Title** : Earphone With Binaural Beats Function

(57) **Abstract** : An earphone (100) with binaural beats function includes a left ear speaker (110), a right ear speaker (120), a wireless communicator (140), and a frequency adjuster (160) signally connected to the left and right ear speakers (110, 120) via a wire, and signally connected to the wireless communicator (140). The frequency adjuster (160) receives an external audio signal from the wireless communicator (140), and adjusts the external audio signal to a first audio signal and a second audio signal to then transmit to the left and right ear speakers (110, 120) respectively, so that the left and right ear speakers (110, 120) emit the first sound wave and the second sound wave respectively. A first frequency of the first sound wave and a second frequency of the second sound wave have a frequency difference. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024006501

(22) **Filing Date** : 13 November 2024

(30) **Priority Date** : 26 March 2024

(71) **Applicant(s)** : Wheater, Guy ; Huyton, Stuart

(72) **Inventor(s)** : Wheater, Guy ; Huyton, Stuart

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

(54) **Title** : Universal Wireline Standoff

(57) **Abstract** : A wireline standoff that may ameliorate the effects of wireline cable differential sticking, wireline cable key seating, and high cable drags by reducing or eliminating contact of the wireline cable with the borehole wall during the logging operation. An embodiment includes a wireline standoff. The wireline standoff may comprise a pair of opposing assemblies. The opposing assemblies may each comprise a half shell, a cable insert configured to be disposed in the half shell, and external fins coupled to the half shell. The wireline standoff may further comprise one or more fasteners configured to couple the opposing assemblies to one another.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024006940

(22) **Filing Date** : 04 December 2024

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

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

(72) **Inventor(s)** : Qingshun Cheng ; Bin Su ; Yuhao Zhao ; Liquan Chen

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

(54) **Title** : Method And Apparatus For Determining Boundary Of Electrode Sheet Coating And Thinning Region, Electronic Device, And Medium

(57) **Abstract** : Abstract METHOD AND APPARATUS FOR DETERMINING BOUNDARY OF ELECTRODE SHEET COATING AND THINNING REGION, ELECTRONIC DEVICE, AND MEDIUM The present disclosure provides a method and apparatus for determining a boundary of an electrode sheet coating and thinning region, an electronic device, and a medium, including: obtaining an initial contour curve from a contour curve set of an initial coating and thinning region of a target electrode sheet; determining an initial ratio of negative electrode capacity to positive electrode capacity according to a material region surface density corresponding to a material region in the target electrode sheet and the initial contour curve; and determining the initial contour curve as a boundary of the initial coating and thinning region if the initial ratio of negative electrode capacity to positive electrode capacity satisfies a preset ratio of negative electrode capacity to positive electrode capacity.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2024007091

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

(30) **Priority Date** : 26 March 2024

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

(72) **Inventor(s)** : Peng Wang ; Liquan Chen ; Bin Su ; Weibo Li

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

(54) **Title** : Electrode Sheet Cutting Device And Thermal Combination Apparatus For Battery Electrode Sheet

(57) **Abstract** : Abstract ELECTRODE SHEET CUTTING DEVICE AND THERMAL COMBINATION APPARATUS FOR BATTERY ELECTRODE SHEET An electrode sheet cutting device and a thermal combination apparatus for a battery electrode sheet are provided. The electrode sheet cutting device includes: a conveyor belt including oppositely disposed upper and lower surfaces, where the upper surface is used for placing an electrode sheet; an upper driving roller disposed on the upper surface for pressing the electrode sheet; a lower driving roller disposed below the lower surface for driving the conveyor belt to move so as to drive the electrode sheet; and a laser cutter for cutting the electrode sheet; where the upper driving roller includes a first upper driving roller and a second upper driving roller, the first upper driving roller and the second upper driving roller are disposed on two opposite sides of the laser cutter, respectively, and the first upper driving roller and the second upper driving roller are disposed close to the laser cutter.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2024007131

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

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

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

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

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

(54) **Title** : Thermal Composite Laminated Cell

(57) **Abstract** : ABSTRACT THERMAL COMPOSITE LAMINATED CELL A thermal composite laminated cell and a battery are disclosed. The thermal composite laminated cell is formed by folding a composite unit, and the composite unit includes a first separator, a second separator, first electrode plates and second electrode plates. Portions of the first separator and the second separator are fixedly connected to form pouch-like structures each with an opening. The first electrode plates are placed inside the respective pouch-like structures, and the second electrode plates are alternately arranged at a side of the first separator away from the first electrode plates and at a side of the second separator away from the first electrode plates along the length direction of the composite unit.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025000532

(22) **Filing Date** : 20 January 2025

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

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

(72) **Inventor(s)** : Hitoshi Nishioka

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

(54) **Title** : Hybrid Vehicle Driving Unit

(57) **Abstract** : A hybrid vehicle driving unit includes a metal stiffener (65) connected to a second case (50) or a second connection (37), as well as to a cylinder block (20), a cylinder head (25), or a first connection (32). Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025000921

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

(30) **Priority Date** : 26 March 2024

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

(72) **Inventor(s)** : Keiichirou Kimoto ; Hirofumi Nakai

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

(54) **Title** : One-Side Spot Welding Method And Control Apparatus

(57) **Abstract** : A first step (S1) of electrifying an overlapping portion (3) of an upper plate (1) and a lower plate (2) while performing pressurization at a first weld force (F1), a second step (S2) of performing the electrification while raising a weld force on the overlapping portion (3) from the first weld force (F1) to a second weld force (F2), and a third step (S3) of performing the electrification while pressurizing the overlapping portion (3) at a second weld force (F2) are consecutively performed. A current value in the first step (S1), the second step (S2), and the third step (S3) is set to a constant value (C1). Figure 2

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025000987

(22) **Filing Date** : 12 February 2025

(30) **Priority Date** : 25 March 2024

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

(72) **Inventor(s)** : Keiichirou Kimoto

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

(54) **Title** : Workpiece Structure Evaluation Method Of One-Side Spot-Welding

(57) **Abstract** : The size of a gap (undesired parting gap amount δ) formed between an upper plate (101) and a lower plate (102) when an overlapping portion (103) between the upper plate (101) and the lower plate (102) is pressed from only one side in the thickness direction by a predetermined pressure force is acquired by simulation, and the structure of a workpiece is evaluated based on the size of the gap. Figure 2

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001106

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

(30) **Priority Date** : 12 April 2024

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

(72) **Inventor(s)** : Keita Yamada

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

(54) **Title** : Electric-Wire Temperature Estimation Apparatus

(57) **Abstract** : An electric-wire temperature estimation apparatus (10) includes a control unit (1) that estimates an electric-wire temperature of an electric wire (9) based on a current value of a vehicle power source (4). The control unit (1) acquires the electric-wire temperature at a time of stopping of the vehicle power source (4) and an amount of elapsed time from stopping to activation of the vehicle power source (4), calculates the electric-wire temperature at a time of activation of the vehicle power source (4) based on the electric-wire temperature at the time of stopping of the vehicle power source (4) and a heat dissipation amount of the electric wire (9) calculated with use of the amount of elapsed time, sets the calculated temperature that is calculated to be an initial temperature, and estimates the electric-wire temperature after the activation of the vehicle power source (4) based on the initial temperature. Figure 3

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001206

(22) **Filing Date** : 20 February 2025

(30) **Priority Date** : 27 March 2024

(71) **Applicant(s)** : All Ring Tech Co., Ltd.

(72) **Inventor(s)** : Kai-Min Chang ; Yu-Xian Zhuang

(74) **Agent** : Teo Bong Kwang C/O Wong Jin Nee & Teo

(54) **Title** : Apparatus And Method For Operating Electronic Components

(57) **Abstract** : An apparatus (1) for operating electronic components includes a transporting unit (A) including an operating rail (A11) for transporting a workpiece (W), and an operating unit (B, F, G) including an operating mechanism (B1, F1, G1) movably disposed above the operating rail (A11). The operating mechanism has an operating head (B11, F11, G11) disposed to implement a predetermined operating process to the workpiece (W), and an electrostatic measuring device (B12, F12, G12) for measuring an electrostatic charge of the workpiece (W) to minimize the risk of damaging the workpiece (W) by electrostatic discharge.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001433

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

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

(71) **Applicant(s)** : Nexgen Wafer Systems Pte. Ltd.

(72) **Inventor(s)** : Hazem Ibrahim ; Dr. Martin Huber

(74) **Agent** : Leong Ay Kee C/O Henry Goh & Co Sdn Bhd

(54) **Title** : Method For Determining A Surface Roughness Of A Specimen Surface Of A Specimen

(57) **Abstract** : The disclosure relates to a method (300) for determining a surface roughness of a specimen surface of a specimen (1), the method (300) comprising: – obtaining several measurement data, each one of the measurement data being indicative of a surface topology of the specimen surface based on an optical three-dimensional measurement of the specimen surface by an image sensor, wherein each one of the measurement data is associated with a different brightness level of a light source illuminating the specimen surface or with a different exposure of the image sensor; – obtaining first computation data indicative of surface roughnesses of the specimen surface for each one of the measurement data; and – determining second computation data indicative of a surface roughness of the specimen surface for all measurement data based on the first computation data. FIGURE 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001446

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

(30) **Priority Date** : 12 April 2024

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

(72) **Inventor(s)** : Bill Yang

(74) **Agent** : Jyeshta Mahendran C/O Shearn Delamore & Co.

(54) **Title** : Sound Adjustment Device

(57) **Abstract** : A sound adjustment device (100) including a background sound source (110), an external sound source receiver (120), a frequency adjuster (130), a mixer (140), and an output port (150). A background audio signal (B10) provided by the background sound source (110) is a mono audio signal. The external sound source receiver (120) is used to receive an external audio signal (E10). The frequency adjuster (130) is used to receive and adjust the background audio signal (B10) into a left ear background audio signal (B12) and a right ear background audio signal (B14) having a frequency difference. The mixer (140) is used to mix the external audio signal (E10) and the left ear background audio signal (B12) into a left ear audio signal (L10), and to mix the external audio signal (E10) and the right ear background audio signal (B14) into a right ear audio signal (R10). Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001490

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

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : Fujimi Incorporated

(72) **Inventor(s)** : Takahiro Oshima ; Tomohide Kamiya

(74) **Agent** : Linda Wang Chaw Ling

(54) **Title** : Polishing Composition, Method For Producing Substrate And Polishing Method

(57) **Abstract** : Provided is a polishing composition that includes a silica abrasive and can maintain low micro-waviness while achieving superior removal ability. A polishing composition for a magnetic disk substrate is provided. The polishing composition includes silica particles as an abrasive, an acid and an oxidant. The silica particles have a minimum peak particle diameter Dpmin of greater than 80 nm and 200 nm or less, and a 99 % cumulative particle diameter D99 to the minimum peak particle diameter Dpmin ratio (D99/Dpmin) of greater than 1.40 and 5.50 or less in the particle size distribution by weight obtained by the photocentrifuge method.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001492

(22) **Filing Date** : 29 March 2024

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : Fujimi Incorporated

(72) **Inventor(s)** : Takahiro Oshima ; Tomohide Kamiya

(74) **Agent** : Linda Wang Chaw Ling

(54) **Title** : Polishing Composition, Method For Producing Substrate And Polishing Method

(57) **Abstract** : Provided is a polishing composition that includes a silica abrasive and can maintain low micro-waviness while achieving superior removal ability. A polishing composition for a magnetic disk substrate is provided. The polishing composition includes silica particles as an abrasive, an acid and an oxidant. The silica particles have a minimum peak particle diameter Dpmin of greater than 25 nm and 80 nm or less, and a 99 % cumulative particle diameter D99 to the minimum peak particle diameter Dpmin ratio (D99/Dpmin) of greater than 5.50 and 15.0 or less in the particle size distribution by weight obtained by the photocentrifuge method.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001509

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

(30) **Priority Date** : 26 March 2024

(71) **Applicant(s)** : Hitachi Channel Solutions, Corp.

(72) **Inventor(s)** : Hiroki Teranishi ; Sho Mizuno

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

(54) **Title** : Maintenance System And Maintenance Method

(57) **Abstract** : Provided is a technique that continuously provides services while reducing a burden of collecting an object to be maintained such as a device or an apparatus in which a defect has occurred. A maintenance company has a first computer and a second computer managed by the maintenance company, and a manufacturer has a third computer managed by the manufacturer. A processor of the first computer receives operation information for a defect of the object to be maintained output from the object to be maintained and transmits the received operation information to the third computer of the manufacturer. A processor of the third computer stores the operation information in a memory, and the second computer transmits replacement request information for requesting a replacement for the object to be maintained to the third computer of the manufacturer based on a request received from the first computer. The processor of the third computer approves an application for the replacement for the object to be maintained, in which the defect has occurred, when the operation information stored in the memory is matched with the replacement request information received from the second computer. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001643

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

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : Leton Bridge Co., Ltd ; Kim Sung

(72) **Inventor(s)** : Kim Sung ; An Jong Kuk

(74) **Agent** : Deborah Sybil David C/O Dcc Advanz Malaysia Sdn Bhd

(54) **Title** : Double Girder Structure Connected To Column And Reinforced With Stiffness And Its Construction Method

(57) **Abstract** : A double girder structure connected to a column and reinforced with stiffness is disclosed. The double girder structure connected to a column and reinforced with stiffness according to the present disclosure includes: a column part (100); bracing parts (210; 220) that are connected to the column part (100), connected in a length-adjustable manner by a steel bar (217), and provided by a plurality of X-shaped bracings; and a double girder part that includes a first double girder (230) rigidly connected to the column part (100) and set on left and right of the bracing part and a second double girder connected to the first double girder (230) by bolt fastening.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001681

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

(30) **Priority Date** : 25 March 2024

(71) **Applicant(s)** : Chan Kwok Leung

(72) **Inventor(s)** : Chan Kwok Leung

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

(54) **Title** : Distributed Monitoring System For Scaffolding Status, Environmental Compliance Of Construction Site, And Working Environment Of Workers Based On Mesh Networking And Multi-Parameter Environmental Sensors

(57) **Abstract** : Provided is a distributed monitoring system for scaffolding status, environmental compliance of construction sites, and working environment of workers based on mesh networking. The system includes: a network provisioning node and a plurality of multi-parameter environmental sensors configured to collect and update various sensor data; a data analysis and alarm system configured to analyse data and issue safety risk alarms related to environmental or scaffolding conditions; and a data visualization platform configured to visualize relative positions of the sensors on scaffolds by analysing signal strength differences between the sensors, and display historical data of parameters of the sensors as well as detected alarms and events with corresponding occurrence timestamps.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001728

(22) **Filing Date** : 20 March 2025

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

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

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

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

(54) **Title** : Method For Preparing Thermally Bonded And Laminated Battery Cell, And Thermally Bonded And Laminated Battery Cell

(57) **Abstract** : ABSTRACT METHOD FOR PREPARING THERMALLY BONDED AND LAMINATED BATTERY CELL, AND THERMALLY BONDED AND LAMINATED BATTERY CELL A method for preparing a thermally bonded and laminated battery cell, and a thermally bonded and laminated battery cell are provided. The method comprises steps of: providing a negative electrode sheet, a positive electrode sheet, and a membrane; thermally bonding the negative electrode sheet and the positive electrode sheet to the membrane to form a thermally bonded structure; forming multiple folding structures in the thermally bonded structure, wherein i positive electrode sheets are arranged between every two adjacent folding structures, and i is a positive integer; folding the thermally bonded structure along each straight line where each of the folding structures is located to prepare the laminated battery cell.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001774

(22) **Filing Date** : 21 March 2025

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

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

(72) **Inventor(s)** : Chang, Chih-Feng ; Lee, Chun-Yi ; Yang, Yung-Pin

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

(54) **Title** : Overhead Transport System

(57) **Abstract** : The overhead transport system (100) of the present invention includes an overhead rail (10), a charging station (30), and a transport vehicle (50). The charging station (30) is connected with the overhead rail (10). The transport vehicle (50) is movable along the overhead rail (10). The transport vehicle (50) includes a vehicle body (51), an assistant device (53), and an electric transmission device (55). The electric transmission device (55) and the assistant device (53) are connected with the vehicle body (51), and located on two sides of the overhead rail (10). The wheel surface of the assistant wheel (531) of the assistant device (53) is abutted against the overhead rail (10). The electric transmission device (55) includes a housing (551), a power transmission module (553), a drive wheel (555), and two charging electrodes (557). The housing (551) is connected with the vehicle body (51), and includes an insulating plate (559) having two installation holes (5595). The drive wheel (555) is connected with the power transmission module (553), and the wheel surface thereof is in contact with the overhead rail (10). The two charging electrodes (557) are connected with the insulating plate (559) without stretching out of the two installation holes (5595). When the transport vehicle (50) moves to a charging position of the charging station (30), the two connectors (33) are electrically connected with the two charging electrodes (557). Figure 2

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001791

(22) **Filing Date** : 21 March 2025

(30) **Priority Date** : 27 March 2024

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

(72) **Inventor(s)** : Tsuyoshi Okahisa ; Akio Sakata

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

(54) **Title** : Light Source, Light-Emitting Module, And Mobile Terminal

(57) **Abstract** : A light source includes: a light-emitting element including: a first light-emitting part configured to emit first light, and a second light-emitting part configured to emit second light having a peak emission wavelength different from a peak emission wavelength of the first light, wherein: the first light-emitting part and the second light-emitting part are stacked in a first direction; and a wavelength conversion member disposed on the light-emitting element, the wavelength conversion member including: a first phosphor layer configured to be excited by the first light and emit third light, and a second phosphor layer configured to be excited by the second light and emit fourth light having a peak emission wavelength different from a peak emission wavelength of the third light, wherein: the first phosphor layer and the second phosphor layer are stacked in the first direction. Figure 2

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001808

(22) **Filing Date** : 24 March 2025

(30) **Priority Date** : 27 March 2024

(71) **Applicant(s)** : Illinois Tool Works Inc.

(72) **Inventor(s)** : William A. Losiewicz ; Ronald J. Forget ; Patsy A. Mattero

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

(54) **Title** : Two-Stage Dispensing Unit

(57) **Abstract** : ABSTRACT TWO-STAGE DISPENSING UNIT A dispensing unit includes a main housing having a main chamber, a reciprocating piston, a nozzle, and an adjuster assembly. The adjuster assembly includes an adjuster housing having an adjuster chamber co-axial with the main chamber. The adjuster assembly further includes an actuator disposed in the adjuster chamber and axially movable within the adjuster chamber. The actuator is configured to engage the reciprocating piston assembly and to drive the downward movement of the reciprocating piston assembly. The reciprocating piston assembly includes a first piston portion having a lower end configured to pressurize fluid within an orifice of the nozzle and a second piston portion that is separate from the first piston portion and having an upper end configured to engage the actuator. The first piston portion is configured to move a first distance and the second piston portion is configured to move a second distance.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001813

(22) **Filing Date** : 24 March 2025

(30) **Priority Date** : 28 March 2024

(71) **Applicant(s)** : Yamaguchi Seiken Kogyo Co., Ltd.

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

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

(54) **Title** : Polishing Method Of Magnetic Disk Substrate

(57) **Abstract** : An object of the present invention is to provide a method for polishing a magnetic disk substrate which can reduce halation by adjusting a carrier peripheral speed of a carrier during polishing and a polishing composition used for polishing. The polishing method involves polishing a magnetic disk substrate 4 using a polishing composition and a polishing machine 3, and the polishing method including: a polishing composition preparation step of preparing the polishing composition; a pad surface abutting step of abutting the pad surface on substrate surface; a polishing composition supplying step of supplying the polishing composition; a rotation step of rotating surface plates and polishing pads; and a planetary motion step of planetary motion of carriers 5 on which the magnetic disk substrate 4 is mounted. The polishing composition used for polishing contains at least colloidal silica, an acid, and an oxidizing agent, and has a value of pH at 25°C of 1.3 or more and 4.0 or less, and the content of sulfuric acid in the acid constituting the polishing composition is 0% by mass or more and 1.0% by mass or less. [no suitable figure]

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001865

(22) **Filing Date** : 25 March 2025

(30) **Priority Date** : 28 March 2024

(71) **Applicant(s)** : Bht Services Pte. Ltd.

(72) **Inventor(s)** : Chan, Chee-Wei

(74) **Agent** : Clara Yip Choon Foong

(54) **Title** : Apparatus For Treating Effluent Gas Stream

(57) **Abstract** : An apparatus for treating effluent gas stream includes a main body and a separation unit. The main body includes a first inlet segment to receive a guiding fluid, a second inlet segment to receive an effluent from manufacturing processes, and a channel portion in fluid communication with the first and the second inlet segments. A dimensional difference is provided between the first inlet segment and the channel portion, such that when the guiding fluid flows from the first inlet segment into the channel portion, a centripetal suction is generated based on the dimensional difference. The separation unit includes a discharge portion connected downstream of the channel portion, defining a second flow path that follows a first flow path defined by the channel portion. The separation unit further includes a negative pressure source connected to the discharge portion and generating a reverse negative pressure to the second flow path. Fig. 2

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001909

(22) **Filing Date** : 26 March 2025

(30) **Priority Date** : 27 March 2024

(71) **Applicant(s)** : Ace Resource Advisory Services Sdn. Bhd

(72) **Inventor(s)** : Yap Chee Wei ; Toh Han-Shen

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

(54) **Title** : A System For Inspecting An Article

(57) **Abstract** : The present invention discloses a system (100) for inspecting an article (101), comprising a conveyor having a conveyor belt (110) for moving the article (101) thereon in a first direction; a sensing module comprising one or more movement sensors (120) for detecting movement direction of the conveyor belt (110); an image acquisition module comprising at least one image acquisition device (130) for capturing image of various perspectives of the article (101); and a control module (140) for regulating operation of the system (100); wherein the control module (140) is configured to halt the operation of the image acquisition module when the movement sensors (120) detect a movement of the conveyor belt (110) in a second direction that opposes the first direction. (The most illustrative figure: Fig. 1)

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001922

(22) **Filing Date** : 27 March 2025

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : Asahi Kasei Kabushiki Kaisha

(72) **Inventor(s)** : Yuki Matsuo ; Shiho Ido

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

(54) **Title** : Photosensitive Resin Multilayer And Method For Its Production

(57) **Abstract** : Provided is a photosensitive resin multilayer that can provide resist patterns satisfying the properties particularly required for resist patterns in recent years, and that can ensure quality stability over time. A photosensitive resin multilayer comprising a temporary support layer, a photosensitive resin layer containing a photosensitive resin composition, and a protective layer, wherein: the photosensitive resin composition includes the following components: (A) an alkali-soluble polymer, (B) a compound with an ethylenically unsaturated bond and (C) a photopolymerization initiator, the component (B) includes: (b1) a compound with a weight-average molecular weight of 540 or lower and having two or more ethylenically unsaturated bonds, and the photosensitive resin layer thickness tr (μm) and the protective layer thickness tp (μm) satisfy both of the following formulae: $tp \geq 25$ (1) $1 \leq tp/tr \leq 3$ (2). Fig. 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001936

(22) **Filing Date** : 27 March 2025

(30) **Priority Date** : 27 March 2024

(71) **Applicant(s)** : Collection Group Technology Co., Ltd.

(72) **Inventor(s)** : Yang, Tsung Hsun

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

(54) **Title** : Winding Machine And Method For Manufacturing Protective Helmet

(57) **Abstract** : A winding machine (M) for manufacturing a protective helmet of the present application includes a rotating base (1), a winding mold (2) and a yarn feeding module (3). The winding mold (2) is disposed on the rotating base (1) to be rotated or paused by the rotating base (1). The winding mold (2) has a shell (21) and a positioning pin assembly (22). The shell (21) is disposed at a top of the rotating base (1), and the shell (21) has an arc-shaped ring portion (213). The positioning pin assembly (22) protrudes from the shell (21), and the positioning pin assembly (22) has multiple positioning components (223), and the multiple positioning components (223) are detachably assembled with the arc-shaped ring portion (213). The yarn feeding module (3) is movable relative to the winding mold (2). Multiple elastic yarns (L) released from the yarn feeding module (3) are wound around the shell (21) in cooperation with the positioning pin assembly (22). Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001949

(22) **Filing Date** : 27 March 2025

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : Logisteed, Ltd.

(72) **Inventor(s)** : Fujita, Mayu

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

(54) **Title** : Jig For Fixing A Flap

(57) **Abstract** : [Problem] To provide a jig for fixing a flap that is convenient and highly practical, with simple works for attaching to a box. [Solution] The jig for fixing a flap for folding a flap of a box outward and superimposing and fixing the flap on the side panel of the box includes: a main body 2 in a plate-shape; and a cutout 3 formed by cutting out a part of the main body 2, in which the cutout 3 has an opening width to allow the side panel and the flap superimposed on the side panel to be inserted into the cutout 3. FIG. 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001964

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

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : At&S (Chongqing) Company Limited

(72) **Inventor(s)** : Ha, Yongpeng ; Chen, Nathan ; Yang, Dick ; Song, Jackie

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

(54) **Title** : Component Carrier, Method For Manufacturing Of A Component Carrier And Package

(57) **Abstract** : The present invention relates to a component carrier (100) comprising a stack with a stacking direction, an method for manufacturing thereof and a package with a component carrier (100), wherein said stack (30) comprises at least one electrically conductive layer structure, at least one electrically insulating structure, a first main surface (MS1) and a second main surface (MS2), wherein said first main surface (MS1) and said second main surface (MS2) are provided one above the other in stacking direction and being opposed one to each other, and a first lateral wall (W1) and a second lateral wall (W2) between said first and second main surfaces (MS1, MS2) connecting said opposed main surfaces (MS1, MS2). At least in a planarized state of said stack (30) in at least a first extension direction (ED) an extension (L1) of the first main surface (MS1) is different from an extension (L2) of the second main surface (MS2).

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025001967

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

(30) **Priority Date** : 28 March 2024

(71) **Applicant(s)** : Ovee Consulting Engineers

(72) **Inventor(s)** : Bharat Ashok Kadu

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

(54) **Title** : A Process Of Carbon Dioxide Desorption And Biomethane Recovery With Biogenic Carbon Dioxide

(57) **Abstract** : The present invention is related to the process of desorption of carbon dioxide from water without any stripping medium such as air or any process gas and further recovery of biogenic carbon dioxide and bio methane for Biogas purification. The production of bio methane and biogenic carbon dioxide is carried out without using air for desorption and using counter-current method. Another aspect of the present invention is the process involves compression of partially desulfurized raw biogas containing hydrogen sulfide and to use chilled water from the top of the column while the gas is introduced from the bottom with absorption column as a twin bed unit where each bed has a height of 2-6 meters with twin bed packed type vessel ranging from ¼ to 2 inches in size to obtain bio methane containing 90-99% methane to achieve the desired water dew point, complying with the fuel standards of the region.

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001973

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

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : Bitdeer Semiconductor Technology Pte. Ltd.

(72) **Inventor(s)** : Weiguo Li ; Qiang Dai ; Senfeng Yang

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

(54) **Title** : Computing Power Host And Virtual Currency Mining Machine

(57) **Abstract** : The present application provides a computing host, comprising a housing and a supercomputing unit, wherein the supercomputing unit comprises a first heat sink, a computing board and a second heat sink; the computing board comprises a substrate, and a chip region is provided on a first surface of the substrate; the first heat sink and the second heat sink are each provided with a flow guiding surface at a portion close to the air inlet, the flow guiding surface is an inclined surface inclined with respect to a second surface of the heat dissipation panel, one end of the inclined surface away from the air inlet is inclined in a direction away from the second surface of the heat dissipation panel as compared with the other end of the inclined surface, and the inclined surface extends at least from an outer side surface of the heat dissipation fins away from the heat dissipation panel to a side close to the heat dissipation panel; the second surfaces of respective heat dissipation panels of the first heat sink and the second heat sink face towards the substrate, and the flow guiding surface is at least partially located on an outer side of the chip region close to the air inlet. The computing host according to the present application can reduce the deposition of foreign matter such as dust on end faces of heat sinks, thereby improving the heat dissipation effect of the whole computing board and the heat conduction effect everywhere, reducing the noise of the whole system, and improving the comfort of the hearing of human ears. [FIG. 1]

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025001978

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

(30) **Priority Date** : 29 March 2024

(71) **Applicant(s)** : Bitdeer Semiconductor Technology Pte. Ltd.

(72) **Inventor(s)** : Weiguo Li ; Senfeng Yang

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

(54) **Title** : Hash Assembly And Air-Cooled Server

(57) **Abstract** : The present invention provides a hash assembly and an air-cooled server. The hash assembly comprises a hash board and a heat dissipation assembly fixedly connected to the hash board, a surface of the hash board is provided with a plurality of chip columns, each of the chip columns comprises a plurality of chips arranged in a direction of the heat dissipation channel, and the chips in each of the chip columns are arranged from the air ingress end to the air egress end in a dense-to-sparse manner; the heat dissipation assembly comprises at least one first heat sink and a base plate, the base plate has first surface and second surface opposite to each other, the first heat sink is in direct contact with the first surface, and the hash board is in direct contact with the second surface; the heat dissipation assembly further comprises a plurality of heat spreaders which are embedded in the base plate at a side of the base plate away from the hash board, and positions and number of the heat spreaders all correspond one to one with those of the chip columns. The hash assembly and the air-cooled server according to the present invention enable good temperature uniformity of chips during operation. [FIG. 1]

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025002027

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

(30) **Priority Date** : 02 April 2024

(71) **Applicant(s)** : Fraunhofer-Gesellschaft Zur Förderung Der Angewandten Forschung E.V.

(72) **Inventor(s)** : Thomas Wiegand ; Detlev Marpe ; Karsten Grüneberg ; Heiko Schwarz ; Karsten Sühring ; Tobias Hinz ; Jonathan Pfaff

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

(54) **Title** : Trustworthiness Of Multi-Media Data Streams

(57) **Abstract** : A method for checking a media data stream having a media stream encoded thereinto on trustworthiness comprises: subjecting a predetermined portion of the media data stream, or data derived therefrom, to a hash function to obtain a hash value; deriving a digital signature from the media data stream; and checking whether the hash value fits to the digital signature to determine whether the media data stream is trustworthy. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : PI2025002036

(22) **Filing Date** : 03 April 2025

(30) **Priority Date** : 04 April 2024

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

(72) **Inventor(s)** : Lee No Hoon ; Hong Ki Gon

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

(54) **Title** : Improved Semiconductor Package Lead Forming Apparatus

(57) **Abstract** : ABSTRACT IMPROVED SEMICONDUCTOR PACKAGE LEAD FORMING APPARATUS The present invention relates to an improved semiconductor package lead forming apparatus in which an angular cam punch (100) performs a reciprocating motion along an operation section (81) and an inclined hole (83) of a cap holder in an elastically supported state, such that the lead is bent against a forming die (30) while forming pressure on the inclined package lead is maintained, and impact transmitted between the angular cam punch (100) and the forming die (30) is minimized during the bending process, thereby extending the lifespan of the angular cam punch (100) and mold components, and ensuring product reliability even after prolonged use. The improved semiconductor package lead forming apparatus includes: an upper mold (10) and a lower mold (20); a plurality of forming dies (30) which are installed on the lower mold (20) and on which a package is seated; a punch unit which is installed on the upper mold (10) and has a punch fixing plate (48); a spacer (50) which is elastically supported on the upper mold (10) and the punch unit (40); a stripper plate (60) which is installed opposite and spaced apart from the forming die (30); a shoulder clamp (70) which is installed on the stripper plate (60) to fix a body of the package; a cam holder (80) which has an operation section (81) of a hopper shape on both sides of the shoulder clamp (70); a roller punch (90) which is installed on the punch fixing plate (48) and arranged between the spacer (50) and the operation section (81); and an angular cam punch (100) which is elastically supported in the operation section (81) and configured to bend leads of the package according to the operation of the roller punch (90). (FIG.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002119

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

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

(71) **Applicant(s)** : Ming Yan Technology Pte. Ltd.

(72) **Inventor(s)** : Li Hong ; Bian Haohao ; Sim Liong Choon

(74) **Agent** : Gan Hooi Ping C/O Yusarn Audrey Ip Services Sdn Bhd

(54) **Title** : Mast Pole System

(57) **Abstract** : The present invention introduces a pole system comprising a Multi-segment Telescopic Mast Pole (MTMP) (01), an extension arm assembly (02) rotatably connected to an upper portion of the MTMP (01), and an angle adjustment means (03) for adjusting rotational angle of the extension arm assembly (02) relative to the axis of the MTMP (01). The extension arm assembly (02) includes a mounting bracket (021) installed at the upper portion of the MTMP (01), and a swing arm (022) rotatably connected to the mounting bracket (021). The angle adjustment means (03) comprises a third cable (032) configured to attach to the swing arm (022) at one end, while the other end of the third cable (032) is configured to sequentially wind from the mounting bracket (021), extend down along the axis of the MTMP (01), and then onto a first winch (031) located at a lower portion of the MTMP (01). [Fig. 1]

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002132

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

(30) **Priority Date** : 15 April 2024

(71) **Applicant(s)** : Thermos L.L.C.

(72) **Inventor(s)** : Marvin Lane

(74) **Agent** : Kow Siew Ching C/O Rodyk & Davidson I.P. Services Sdn. Bhd.

(54) **Title** : Lid Assembly With Actuator To Raise Drinking Member

(57) **Abstract** : A lid assembly for a beverage container includes an actuator element that rotates a drinking spout. In one aspect, the drinking spout rotates upward from the lid body to a drinking position by the user squeezing the handle.

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002158

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

(30) **Priority Date** : 15 April 2024

(71) **Applicant(s)** : Leitz Gmbh & Co. Kg

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

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

(54) **Title** : Chipping Tool For The Rotary Machining Of Wood

(57) **Abstract** : The invention relates to a chipping tool (10) for the rotary machining of drywood, wood-based materials and plastics with a base body (12), which has at least one cutting insert mount, at least one replaceable cutting insert (18), which has at least one cutting edge (22), is fixed to the cutting insert mount by means of a fixing element (20) and which is fixed to the base body (12) to cut in a cutting direction, and at least one chip space (24) for the at least one cutting edge (22), wherein a wear protection element (26), which is composed of a wear-resistant material at least on its wear protection element front side (F) lying at the front in the cutting direction, is arranged between the cutting insert (18) and the base body (12) and is arranged in such a way that a chip (30) runs on the cutting edge (22) and then on the wear protection element (26) . Figure 1a

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002182

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

(30) **Priority Date** : 12 April 2024

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

(72) **Inventor(s)** : Chiu, Ming-Chien ; Chuang, Chia-Ho ; Lee, Kuo-Hua ; Lyu, Jyun-Ming

(74) **Agent** : Leong Jin Hoong

(54) **Title** : Semiconductor Carrier

(57) **Abstract** : A semiconductor carrier includes an accommodating chamber (S) formed within a housing (1), wherein the housing (1) has multiple through holes (11) in communication with the accommodating chamber (S). A bottom plate (2) is disposed at a bottom of the housing (1), and includes multiple gas supply portions (21) each corresponding to one of the through holes (11). Each of the gas supply portions (21) includes an elastic sealing member (211), which provides airtightness between the gas supply portion (21) and the bottom of the housing (1). A gas chamber (212) is located on the inside of the elastic sealing member (211), and the gas chamber (212) and the through holes (11) are in communication with each other to form a gas buffer channel (W). An installation groove (213) is in communication with the gas chamber (212), and is configured to be disposed with a gas valve (3) for receiving a gas into the accommodating chamber (S) through the gas buffer channel (W).

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : PI2025002198

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

(30) **Priority Date** : 15 April 2024

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

(72) **Inventor(s)** : Chen, Yu-Ching ; Wang, Jui-Pin ; Chen, Cheng-Lung ; Yen, Shao

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

(54) **Title** : Machine Room For Accommodating Immersion Cooling Electronic System And Control Method Thereof

(57) **Abstract** : A machine room for accommodating an immersion cooling electronic system includes a chamber, an exhaust device, a reservoir tank group and a control system. The exhaust device is disposed in the chamber and configured to exhaust gas out of the chamber. The reservoir tank group is located in the chamber and includes at least one liquid cooling tank and its cover. The at least one liquid cooling tank is configured to accommodate a coolant and at least one electronic device for at least partially immersing the at least one electronic device in the coolant, and the cover is movably disposed on the at least one liquid cooling tank to cover the corresponding at least one liquid cooling tank. The control system is electrically connected to the exhaust device and configured to adjust an exhaust volume of the exhaust device. Figure 1

(12) **MALAYSIAN PATENT APPLICATION**

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(21) **Application No.** : UI2024000089

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

(30) **Priority Date** : NONE

(71) **Applicant(s)** : Wan Muhammad Noor Sarbani Bin Mat Daud ; Muhammad Ikram Bin Mohd Rashid ; Ismail Foo Bin Muhammad Furqan Foo

(72) **Inventor(s)** : Ismail Foo Bin Muhammad Furqan Foo ; Wan Muhammad Noor Sarbani Bin Mat Daud ; Muhammad Ikram Bin Mohd Rashid

(74) **Agent** : NONE

(54) **Title** : Remote Presenter Wristband

(57) **Abstract** : The present invention generally relates to improvemgnts in a remote presenter and more particularly remote presenter to control movements in Android apps. The main components of the invention are the top cover (FIG. l), bottom casing (FIG.2), electronic circuit (FIG. 3), buttons (FIG. 4), and watch strap (FIG. 5) or band. The top cover (l) is cut in a desired shape, with holes (2) for buftons (9) and holes (3) for the screws. The second part is the bottom casing (4). The part is designed in a desired shape. It can be a rectangle, circle, oval, hexagon or any suitable shape. The bottom casing has a slot (5) for an electronic circuit (8). The bottom casing also has holes where the screws connecting the top cover and bottom casing are inserted. Furthermore, the bottom casing also has four holes (7) where the pins (11) of standard watch straps (10) will be inserted. The width ofthe straps can be l2 mm, l4 mm, 16 mm, l8 mm, 20 mm,22 mm,24 mm, or 26 mm. (Most illustrative figure: FIG. 6)

(12) **MALAYSIAN PATENT APPLICATION**

(21) **Application No.** : UI2025000422

(22) **Filing Date** : 15 January 2025

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

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

(72) **Inventor(s)** : Jin Ho Lim ; Teik Jin Lee ; Wang Yan Ling ; Jyh Woei Ch'Ng ; Wai Keat Tan ; Wei Lun Ng

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

(54) **Title** : System For Detecting Frames

(57) **Abstract** : A system (20) for detecting frames is connected to a display apparatus (10) and an external management port (101). The system (20) includes a video capturing device (21) and a computing device (22). The video capturing device (21) obtains a video feed from the display apparatus (10), and transmits the video feed to the computing device (22). In response to receipt of the video feed, the computing device (22) processes the video feed to obtain a displaying frame, processes the displaying frame to obtain a region of interest (ROI) within the displaying frame, obtains an identification result associated with a content included in the ROI, and transmits the identification result to the management port (101). (Fig. 1)

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PATENT	+603 7496 3284 / suzie@myipo.gov.my
	+603 7496 3298 / yasmin@myipo.gov.my
TRADEMARK	+603 7496 8944 / katijah@myipo.gov.my
INDUSTRIAL DESIGN	+603 7496 8915 / hasrul@myipo.gov.my
	+603 7496 8920 / afiza@myipo.gov.my
GEOGRAPHICAL INDICATIONS	+603 7496 3841 / ryzul@myipo.gov.my