

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২. ৭২৭

তারিখঃ ২১/০৯/২০২৬ খ্রি.

বিষয়ঃ দাখিলকৃত পেটেন্ট আবেদনসমূহ ওয়েবসাইটে প্রকাশ।

বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ১৭(২) অনুযায়ী ডিপিডি-তে ২০২৫ সালে দাখিলকৃত পেটেন্ট আবেদন নং ৪৭-৫২, ৫৬-৬৯, ৭১-৭২, ৭৪-৮৭, ৮৯-৯০, ৯৪, ৯৮ এবং ধারা ১৭(৪) অনুযায়ী ২০২৫ সালের পেটেন্ট আবেদন নং ১৫২, ১৫৫, ১৬০, ১৯১, ১৯৩, ২১৪, ২৪১-২৪৩, ২৭৪ ও ২০২৬ সালের পেটেন্ট আবেদন নং ১৬১, ২১০, ২১৯, ২৬৯, ২৭০, ২৮৭, ২৮৮, ২৯১, ২৯৫-২৯৭, ৩০২, ৩১৯ — সর্বমোট ৬৩ (তেষটি) টি আবেদন নিম্নবর্ণিত তথ্যাদি সহ অধিদপ্তরের ওয়েবসাইটে (www.dpdt.gov.bd) প্রকাশ করা হল।

- (ক) উদ্ভাবনের শিরোনাম;
- (খ) পেটেন্ট আবেদনকারী ও উদ্ভাবকের নাম;
- (গ) আবেদন দাখিলের তারিখ ও নম্বর;
- (ঘ) অগ্রাধিকার নম্বর ও তারিখ, যদি থাকে;
- (ঙ) পেটেন্ট এর শ্রেণিবিন্যাস;
- (চ) উদ্ভাবনের মূল উপাদান চিত্রায়িত করে এইরূপ অংকন, যদি থাকে;
- (ছ) বিষয়বস্তুর সার-সংক্ষেপ।

সংযুক্তিঃ ৬৩ (তেষটি) পাতা।


মোঃ হাবিবুর রহমান
উপ-পরিচালক (পেটেন্ট)

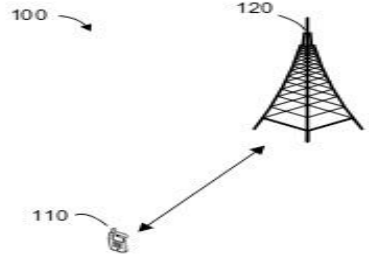
অনুলিপিঃ

- ১। পরিচালক (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
- ২। সিস্টেম এনালিস্ট, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর। (ওয়েবসাইটে প্রকাশের জন্য)
- ৩। উপ-পরিচালক (পেটেন্ট) (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
- ৪। মহাপরিচালক মহোদয়ের ব্যক্তিগত সহকারী, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-47 (22) Filed: 02/02/2025	
(23) Priority Data: China, Number :2024076808, Date : 07-02-2024.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
(72) Inventors: (1) Lei DU of Xianglinjun 5-1-501, Haidian District, Beijing, 100085, China Nationality -China, (2) Lars DALSGAARD of Torpantie 56, Oulu, 90230, Finland Nationality -Denmark, (3) Parham KAZEMI of Karakaari 13, Espoo, 02610, Finland Nationality -Iran (Islamic Republic of)	
(74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : G02F 1/1362	
(54) Invention Title: CELL ACTIVATION	
(57) Abstract Embodiments of the present disclosed devices, methods and apparatuses for cell activation. In the embodiments, a terminal determines a path loss-reference signal (PL-RS) as known for a secondary cell (SCell) with an uplink based on at least one measurement result or a measurement report. The measurement report is triggered due to a cell activation command. Then, the terminal device activates, based on the PL-RS determined as known, the SCell within a first time period. In this way, communication performance related to the carrier aggregation (CA) operations can be improved.	 Fig. 1A



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-48 (22) Filed: 02/02/2025	
(23) Priority Data: United States of America, Number :18661294, Date : 10-05-2024.	
(71) Applicant: Lowell Street Ventures LLC of 3900 Watson Place NW, Building B, Apt. 8DE, Washington, DC 20016, Nationality -United States of America	
(72) Inventors: (1) O'REAR, Dennis John of 1105 Valley Oak Court, Petaluma, CA 94954, United States of America Nationality -United States of America, (2) SCIAMANNA, Steven Francis of 18 Edgewood Rd., Orinda, CA 94563, United States of America Nationality -United States of America, (3) BRYAN, Paul Frank of 674 Pinon Ave., Pinole, CA 94564, United States of America Nationality -United States of America	
(74) Agent : SUPREMEiP Law Firm, 121 Motijheel C/A (1st Floor), Dhaka-1000, Bangladesh	
(51) INT. CL. : C07K 14/615	
(54) Invention Title: DUAL-STAGE SYNTHESIS OF LPG FROM BIO-BASED SOURCES	
(57) Abstract A method is provided for synthesizing bio-based LPG from renewable sources via a bio-based synthetic gas feedstock, in a dual-stage reaction system comprising an oxygenate synthesis reaction zone and an oxygenate conversion reaction zone that are configured for producing and converting a methanol intermediate for reduced CO ₂ selectivity. The method includes recovering LPG from either the full reaction zone effluent or from a purge stream separated from the full reaction zone effluent for LPG recovery.	FIG. 1 <pre>graph TD; A[reacting a blended bio-based synthesis gas comprising CO, CO₂, and H₂ in an oxygenate synthesis reaction zone containing an oxygenate synthesis catalyst and forming a first effluent containing oxygenates and unreacted bio-based synthesis gas] --> B[reacting at least a portion of the first effluent in an oxygenate conversion reaction zone containing an oxygenate conversion catalyst and forming a second effluent comprising C₂+ hydrocarbons, bio-based LPG, and C₅+ hydrocarbons, wherein the bio-based LPG contains olefins]; B --> C[separating at least a portion of the hydrocarbons, including C₂-, bio-based LPG and C₅+ hydrocarbons, from the second effluent to form a recycle effluent]; C --> D[blending at least a portion of the recycle effluent with fresh bio-based synthesis gas to form the blended bio-based synthesis gas]; D --> A;</pre>



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-49 (22) Filed: 02/02/2025	
(23) Priority Data: United States of America, Number :18431474, Date : 02-02-2024.	
(71) Applicant: Lowell Street Ventures LLC of 3900 Watson Place NW, Building B, Apt. 8DE, Washington, DC 20016, Nationality -United States of America	
(72) Inventors: (1) O'REAR, Dennis John of 1105 Valley Oak Court, Petaluma, CA 94954, United States of America Nationality -United States of America, (2) SCIAMANNA, Steven Francis of 18 Edgewood Rd., Orinda, CA 94563, United States of America Nationality -United States of America, (3) BRYAN, Paul Frank of 674 Pinon Ave., Pinole, CA 94564, United States of America Nationality -United States of America	
(74) Agent : SUPREMEiP Law Firm, 121 Motijheel C/A (1st Floor), Dhaka-1000, Bangladesh	
(51) INT. CL. : C07K 14/615	
(54) Invention Title: DUAL-STAGE SYNTHESIS OF LPG FROM BIO-BASED SOURCES	
(57) Abstract A method is provided for synthesizing bio-based LPG from renewable sources via a bio-based synthetic gas feedstock, in a dual-stage reaction system comprising an oxygenate synthesis reaction zone and an oxygenate conversion reaction zone that are configured for producing and converting a methanol intermediate for reduced CO ₂ selectivity. The method includes recovering LPG from either the full reaction zone effluent or from a purge stream separated from the full reaction zone effluent for LPG recovery.	FIG. 1 <pre>graph TD; A[reacting a blended bio-based synthesis gas comprising CO, CO₂, and H₂ in an oxygenate synthesis reaction zone containing an oxygenate synthesis catalyst and forming a first effluent containing oxygenates and unreacted bio-based synthesis gas] --> B[reacting at least a portion of the first effluent in an oxygenate conversion reaction zone containing an oxygenate conversion catalyst and forming a second effluent comprising C₂- hydrocarbons, bio-based LPG, and C₅+ hydrocarbons, wherein the bio-based LPG contains olefins]; B --> C[separating at least a portion of the hydrocarbons, including C₂-, bio-based LPG and C₅+ hydrocarbons, from the second effluent to form a recycle effluent]; C --> D[blending at least a portion of the recycle effluent with fresh bio-based synthesis gas to form the blended bio-based synthesis gas]; D --> A;</pre>



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-50 (22) Filed: 02/02/2025	
(23) Priority Data: United States of America, Number :18431438, Date : 02-02-2024.	
(71) Applicant: Lowell Street Ventures LLC of 3900 Watson Place NW, Building B, Apt. 8DE, Washington, DC 20016, Nationality -United States of America	
(72) Inventors: (1) O'REAR, Dennis John of 1105 Valley Oak Court, Petaluma, CA 94954, United States of America Nationality -United States of America, (2) SCIAMANNA, Steven Francis of 18 Edgewood Rd., Orinda, CA 94563, United States of America Nationality -United States of America, (3) BRYAN, Paul Frank of 674 Pinon Ave., Pinole, CA 94564, United States of America Nationality -United States of America	
(74) Agent : SUPREMEiP Law Firm, 121 Motijheel C/A (1st Floor), Dhaka-1000, Bangladesh	
(51) INT. CL. : C07K 14/615	
(54) Invention Title: LPG SYNTHESIS FROM BIO-BASED SOURCES	
(57) Abstract A method is provided for synthesizing bio-based LPG from renewable sources via a bio-based synthetic gas feedstock, using a solvent absorption process and a solid adsorption process for recovering LPG in high yield while providing for high recovery and reuse, with low pressure drop, of unreacted synthesis gas components.	FIG. 1 <pre>graph TD; A[synthesizing an LPG-enriched gaseous effluent from a bio-based synthesis gas comprising CO, CO2, and H2 in one or more catalytic reaction zones] --> B[removing an aqueous product from the LPG-enriched gaseous effluent and producing a dewatered gaseous effluent]; B --> C[absorbing at least a portion of the hydrocarbons contained in the dewatered gaseous effluent in a liquid absorption solvent within an absorption zone and producing an LPG-enriched liquid comprising a bio-based LPG and a 1st recycle stream having a reduced LPG content, wherein the 1st recycle stream contains C2-hydrocarbons]; C --> D[adsorbing C2-hydrocarbons, CO, and CO2 onto a solid adsorbent from at least a portion of the 1st recycle stream and returning non-adsorbed H2 to the 1st recycle stream to form a hydrogen-enriched 2nd recycle stream]; D --> E[passing at least a portion of the 2nd recycle stream to the one or more catalytic reaction zones];</pre>

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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-51 (22) Filed: 03/02/2025	
(23) Priority Data: Finland, Number :20245197, Date : 19-02-2024.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
(72) Inventors: (1) Samantha CAPORAL DEL BARRIO of Flintevej 16, Aalborg, 9000, Denmark Nationality -France, (2) Riikka Karoliina DIMNIK of Lohansuontie 7 L, Kirkkonummi, 02880, Finland Nationality -Finland, (3) Rafael CAUDURO DIAS DE PAIVA of Lyngholmsvej 56, Aalborg, 9200, Denmark Nationality -Brazil, (4) Paolo BARACCA of Franziskanerstrasse 38, Munich, 81669, Germany Nationality -Italy	
(74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : G01R 29/08	
(54) Invention Title: TRANSMISSION CONFIGURATION INDICATOR ACTIVATION	
(57) Abstract Example embodiments of the disclosure relate to methods, apparatuses, and a computer readable storage medium for transmission configuration indicator (TCI) activation. In a method, a first apparatus receives a first indication indicating a first switch from a first source TCI state to a first target TCI state is to be performed, and a second indication indicating a second switch from a second source TCI state to a second target TCI state is to be performed. The first apparatus determines an order for performing the first switch and the second switch, the order being associated with at least one of first information about a first transmission between the first network device and the first apparatus or second information about a second transmission between the second network device and the first apparatus.	



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-52 (22) Filed: 03/02/2025	
(23) Priority Data: Finland, Number :20245198, Date : 19-02-2024.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
(72) Inventors: (0) Paolo BARACCA of Franziskanerstrasse 38, Munich, 81669, Germany Nationality -Italy, (1) Rafael CAUDURO DIAS DE PAIVA of Lyngholmsvej 56, Aalborg, 9200, Denmark Nationality -Brazil, (2) Riikka Karoliina DIMNIK of Lohansuontie 7 L, Kirkkonummi, 02880, Finland Nationality -Finland, (3) Samantha CAPORAL DEL BARRIO of Flintevej 16, Aalborg, 9000, Denmark Nationality -France	
(74) Agent : Remfry & son Ltd., 56, New Eskaton Road, 4th Floor, Dhaka-1000, Bangladesh	
(51) INT. CL. : G01R 29/08	
(54) Invention Title: DYNAMIC TRANSMISSION CONFIGURATION INDICATOR ACTIVATION.	
(57) Abstract Example embodiments of the disclosure relate to methods, apparatuses, and a computer readable storage medium for dynamic transmission configuration indicator (TCI) activation. In a method, a first apparatus receives a first indication and a second indication. The first indication indicates a first switch from a first TCI state to a first target TCI state is to be performed, and the second indication indicates a second switch from a second source TCI state to a second target TCI state is to be performed. The first source TCI state has been activated for a first network device, and the second source TCI state has been activated for a second network device. Reference signals associated with the first target TCI state and the second target TCI state are adjacent. The first apparatus determines an order for performing the first switch and the second switch.	



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-56 (22) Filed: 04/02/2025	
(23) Priority Data: Finland, Number :20206386, Date : 31-12-2020.	
(71) Applicant: Infinited Fiber Company Oy of Ruukinkuja 2, 02330 Espoo, Nationality -Finland	
(72) Inventors: (0) SIREN, Sakari of C/o Infinited Fiber Company Oy, Ruukinkuja 2, 02330 Espoo, Finland Nationality -Finland, (1) HARLIN, Ali of Infinited Fiber Company Oy, Ruukinkuja 2, 02330 Espoo, Finland Nationality -Finland, (2) STJERNBERG, Martin of Infinited Fiber Company Oy, Ruukinkuja 2, 02330 Espoo, Finland Nationality -Finland	
(74) Agent : Rahman IP Solutions, B N Tower (8th Floor), 28/1/B Toyenbee Circular Road, Motijheel C/A, Dhaka-1000., Bangladesh	
(51) INT. CL. : C08B 15/06	
(54) Invention Title: Dissolution of a Cellulose Derivative	
(57) Abstract According to an example aspect of the present invention, there is provided a method of dissolving cellulose carbamate in an alkaline aqueous phase to form a solution, comprising the steps of providing cellulose carbamate, mixing the cellulose carbamate with an aqueous alkaline solution to form a mixture, producing a solution of said cellulose carbamate in an alkaline aqueous phase, and recovering the cellulose carbamate containing aqueous phase.	



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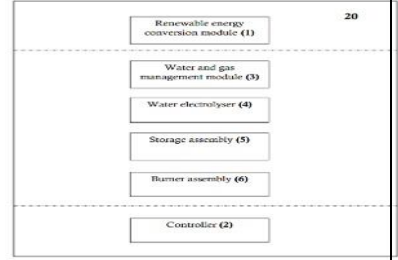
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-57 (22) Filed: 04/02/2025	
(23) Priority Data: United States of America, Number :63549981, Date : 05-02-2024.	
(71) Applicant: Elanco US Inc. of 2500 Innovation Way, Greenfield, IN 46140, Nationality -United States of America	
(72) Inventors: (1) Robert ROUSH of 2500 Innovation Way, Greenfield, IN 46140, United States of America Nationality -United States of America, (2) Phillip BECHER of 2500 Innovation Way, Greenfield, IN 46140, United States of America Nationality -United States of America, (3) Richard COPELAND of 2500 Innovation Way, Greenfield, IN 46140, United States of America Nationality -United States of America, (4) Robert NEUGEBAUER of Mattenstrasse 24A, Basel, 4058, Switzerland Nationality -Switzerland	
(74) Agent : Rahman IP Solutions, B N Tower (8th floor), 28/1/B Toyenbee Circular Road, Motijheel C/A, Dhaka-1000., Bangladesh	
(51) INT. CL. : A61P 33/00	
(54) Invention Title: MULTI-LAYERED GRANULE THERAPEUTICS	
(57) Abstract The present disclosure provides multi-layered therapeutics, methods of manufacture therefor, and methods of treatment. More particularly, the disclosure compositions formulated for administration to an animal comprising a core comprising a first antiparasitic agent and a coating, wherein the coating may comprise a second antiparasitic agent; methods of producing such compositions; and methods of treating and/or preventing parasitic infection in animals in need thereof.	<pre>graph TD Core[Core] --> Granules[Granules] Coating[Coating] --> Granules Granules --> MultiLayered[Multi-layered Granules] MultiLayered --> Formulation[Formulation into a Therapeutic Composition]</pre>



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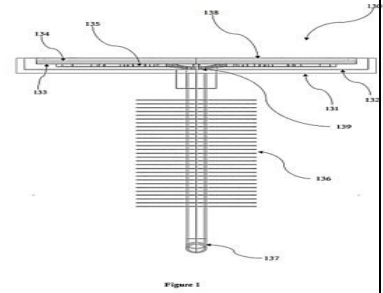
(11) Patent registration No and date , (21) Appl. No. BD-P-2025-58 (22) Filed: 04/02/2025	
(23) Priority Data: India, Number :202421007514, Date : 04-02-2024.	
(71) Applicant: ZEST CLEAN POWER PRIVATE LIMITED of Flat No. 301, Floor No. 3, Wing C - 3, Parkview, Anand Nagar, Kavesar, G.B Road, Thane, Maharashtra - 400615, Nationality -India	
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(74) Agent : SUPREMEiP Law Firm, 121 Motijheel C/A (1st Floor), Dhaka-1000, Bangladesh	
(51) INT. CL. : F24S 20/61	
(54) Invention Title: A MULTIPURPOSE INTEGRATED PASSIVE SYSTEM FOR CONVERTING GREEN ENERGY	
(57) Abstract The present invention provides a multipurpose integrated passive system (20) for converting green energy comprising a renewable energy conversion module (1) to generate electricity, a water and gas management module (3) to supply water to the water electrolyser (4), a water electrolyser (4) connected with one or more potassium hydroxide (KOH) tank (4a, 4b), is configured to split water into hydrogen gas and oxygen gas and said gases are separately directed into the storage assembly (5). The storage assembly (5) include a plurality of gas storage tanks (5a, 5b) for separately storing the gases and a plurality of valves for controlling the flow of said gases, a burner assembly (6) include a hydrogen burner (7), wherein the hydrogen gas from the gas storage tank (5a) is delivered to the hydrogen burner (7), and a controller (2) configured to ensures to safety and efficiency of the multipurpose integrated passive system (20).	 Figure 1



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(71) Applicant: ZEST CLEAN POWER PRIVATE LIMITED of Flat No. 301, Floor No. 3, Wing C - 3, Parkview, Anand Nagar, Kavesar, G.B Road, Thane, Maharashtra - 400615, Nationality -India	
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(74) Agent : SUPREMEiP Law Firm, 121 Motijheel C/A (1st Floor), Dhaka-1000, Bangladesh	
(51) INT. CL. : F23D 1/00	
(54) Invention Title: A HYDROGEN BURNER	
(57) Abstract The present invention provides a hydrogen burner (100), comprises a housing (120) accommodates and supports said burner assembly (130). The burner assembly comprises a radiator (136) is configured to supply a required amount of fuel gas via said inlet pipe (137). An outlet pipe (139) of said radiator (136) is connected to said manifold channel (135). The manifold channel (135) is secured on said manifold plate (132) and said distributor plate (133) is placed above said manifold channel (135). The diffuser plate (134) placed above said distributor plate (133) and said diffuser plate (134) facilitates in mixing of the fuel gas with air and ensures flame stability. A temperature sensor (146) to measure the flame temperature and controls the flowrate of fuel gas. The gas sensor (149) is installed on said housing (120) to detect the presence of gas fuel leak and actuate an alarm module (151).	





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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-60 (22) Filed: 05/02/2025
(23) Priority Data: United States of America, Number :63549981, Date : 05-02-2024.
(71) Applicant: Elanco US Inc. of 2500 Innovation Way, Greenfield, IN 46140, Nationality -United States of America
(72) Inventors: (1) Robert ROUSH of 2500 Innovation Way, Greenfield, IN 46140, United States of America Nationality -United States of America, (2) Phillip BECHER of 2500 Innovation Way, Greenfield, IN 46140, United States of America Nationality -United States of America, (3) Richard COPELAND of 2500 Innovation Way, Greenfield, IN 46140, United States of America Nationality -United States of America, (4) Robert NEUGEBAUER of Mattenstrasse 24A, Basel, 4058, Switzerland Nationality -Switzerland
(74) Agent : Rahman IP Solutions, B N Tower (8th floor), 28/1/B Toyenbee Circular Road, Motijheel C/A, Dhaka-1000., Bangladesh
(51) INT. CL. : A61K 9/50
(54) Invention Title: MULTI-LAYERED GRANULE THERAPEUTICS
(57) Abstract The present disclosure provides multi-layered therapeutics, methods of manufacture thereof, and methods of treatment. More particularly, the disclosure provides compositions formulated for administration to an animal comprising a core particle comprising a first antiparasitic agent and a coating, wherein the coating may comprise a second antiparasitic agent; methods of producing such compositions; and methods of treating and/or preventing parasitic infection in animals in need thereof.



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(71) Applicant: RAMKRISHNA FORGINGS LIMITED of 23 Circus Avenue 9th Floor, Kolkata West Bengal 700 017, Nationality -India	
(72) Inventors: (1) Amarjeet Singh of RKFL, Plant 7 Plot No. 1988, Mauza-Dugni Saraikela District, Jharkhand 833220, India Nationality -India	
(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2 (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh	
(51) INT. CL. : B60G 9/02	
(54) Invention Title: Axle Beam for a Vehicle	
(57) Abstract The present invention provides an axle beam (102) for a vehicle. the axle beam (102) comprises a first elongated segment (116) extending along a lateral axis of the vehicle and a second elongated segment (118). The second elongated segment (118) extends along the lateral axis of the vehicle. The second elongated segment (118) is joined to the first elongated segment (116) to form a hollow tubular member for supporting a spindle (104) of the vehicle. Such a construction ensures higher strength and load bearing capacity of the axle beam (102).	 Figure 1



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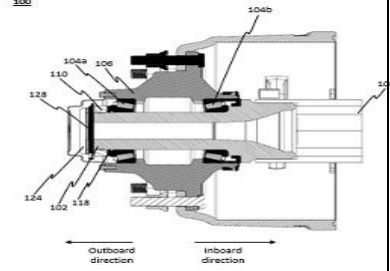
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(23) Priority Data: India, Number :202431008713, Date : 08-02-2024.	
(71) Applicant: RAMKRISHNA FORGINGS LIMITED of 23 Circus Avenue 9th Floor, Kolkata West Bengal 700 017, Nationality -India	
(72) Inventors: (1) Amarjeet Singh of RKFL, Plant 7 Plot No. 1988, Mauza-Dugni Saraikele District, Jharkhand 833220, India Nationality -India	
(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2 (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh	
(51) INT. CL. : B60G 9/02	
(54) Invention Title: Axle Spindle for a Vehicle	
(57) Abstract The present invention provides an axle spindle (100) for a vehicle. The axle spindle (100) is a hollow member. The axle spindle (100) comprises a cylindrical portion (102) and a tubular skirt portion (104) extending from one end of the cylindrical portion (102). The tubular skirt portion (104) is integrally formed with the cylindrical portion (102) by forging process. Such a construction of the axle spindle (100) is characterized with a higher loading capacity and strength.	



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(23) Priority Data: India, Number :202431008714, Date : 08-02-2024.	
(71) Applicant: RAMKRISHNA FORGINGS LIMITED of 23 Circus Avenue 9th Floor, Kolkata West Bengal 700 017, Nationality -India	
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(51) INT. CL. : F16B 37/00	
(54) Invention Title: Axle Nut	
(57) Abstract The present invention relates to an axle nut (110) for a wheel end assembly (100). The axle nut (110) comprising a nut body (130) adapted to be mounted to an outboard end of an axle spindle (102). The nut body (130) comprises a plurality of circumferential grooves (120). The plurality of circumferential grooves (120) are adapted to receive a split pin (128) via one or more through-holes (122) provided on the axle spindle (102) for providing rotational locking to the nut body (130).	
 Figure 1	



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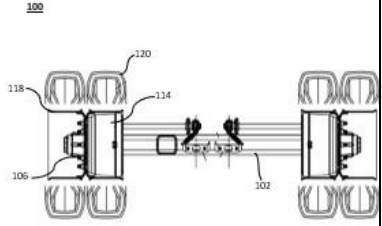
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-64 (22) Filed: 09/02/2025	
(23) Priority Data: India, Number :202431008715, Date : 08-02-2024.	
(71) Applicant: RAMKRISHNA FORGINGS LIMITED of 23 Circus Avenue 9th Floor, Kolkata West Bengal 700 017, Nationality -India	
(72) Inventors: (1) Amarjeet Singh of RKFL, Plant 7 Plot No. 1988, Mauza-Dugni Saraikela District, Jharkhand 833220, India Nationality -India	
(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2 (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh	
(51) INT. CL. : F16D 65/10	
(54) Invention Title: Brake Drum	
(57) Abstract The present invention provides a brake drum (100). The brake drum comprises a hollow cylindrical body (102) having a first end (102a) and a second end (102b). A flat circumferential portion (102c) is provided between the first end (102a) and the second end (102b). The flat circumferential portion (102c) is aligned parallelly to a central axis (A-A') of the hollow cylindrical body (102). The flat circumferential portion (102c) is adapted to maintain perpendicularity with a rim portion (112) of the hollow cylindrical body (102). Such a construction ensures uniform contact of the brake pad (120), thereby ensuring effective braking of the vehicle.	



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(23) Priority Data: India, Number :202431008716, Date : 08-02-2024.	
(71) Applicant: RAMKRISHNA FORGINGS LIMITED of 23 Circus Avenue 9th Floor, Kolkata West Bengal 700 017, Nationality -India	
(72) Inventors: (1) Amarjeet Singh of RKFL, Plant 7 Plot No. 1988, Mauza-Dugni Saraikela District, Jharkhand 833220, India Nationality -India	
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(51) INT. CL. : B60B 27/00	
(54) Invention Title: Wheel Hub	
(57) Abstract Present invention provides a wheel hub (106) for a vehicle. The wheel hub (106) with a hollow cylindrical body (108) having an inboard end (108b) and an outboard end (108a). A flange (110) extends laterally from the hollow cylindrical body (108). The flange (110) is adapted to be mounted to a brake drum (114) of the vehicle. A plurality of rib members (122) extend laterally on the hollow cylindrical body (108). The plurality of rib members (122) being adapted to enhance structural rigidity of the hollow cylindrical body (108). Such a construction of the wheel hub (106) is characterized by uniform strength with high load bearing capacity and rigidity resulting in enhancing fatigue life of the wheel hub (106).	



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(23) Priority Data: European Patent Office (EPO), Number :241579291, Date : 15-02-2024.	
(71) Applicant: STÄUBLI SARGANS AG of Grossfeldstrasse 71 SARGANS, 7320, Nationality -Switzerland	
(72) Inventors: (0) FROMMELT Igor of In der Hueb 8 FRÜMSEN, 9467, Switzerland Nationality -Liechtenstein, (1) FREHNER Erik Uli of Bühlstrasse 28b Neukirch an der Thur, 9217, Switzerland Nationality -Switzerland, (2) MARK Rico of Alvierstrasse 26 Vilters, 7234, Switzerland Nationality -Switzerland	
(74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : B21C 1/32	
(54) Invention Title: DROPWIRE TRANSFER MODULE AND DRAWING-IN MACHINE COMPRISING SUCH A TRANSFER MODULE	
(57) Abstract A dropwire transfer module includes a casing (40), an abutment part (50) movable relative to the casing, parallel to a transfer direction (D12), and forming an abutment surface (S50), an actuator, a clamping device including a first lever (66) and a carriage (62) forming a clamping surface (S62). The first lever (66) is configured to be reciprocally rotated relative to the casing (40) by the actuator, around a first rotation axis (Z1) fixed in position with respect to the casing (40). A rotational movement of the first lever (66) in a clamping rotation direction (R) causes a movement of the carriage into a disengaged position, where the clamping device (60) is completely offset of the abutment surface (S50) perpendicularly to the transfer direction (D12), an intermediate position, where the clamping surface (S62) cooperates with the abutment surface (S50) in the transfer direction (D12), with a dropwire (18a) in-between, the abutment part (50) being in the advanced position, and a final position, where the clamping surface (S62) and the abutment surface (S50) clamp the dropwire (18a) between them, the abutment part (50) being in the retracted position. At least on a portion of the movement of the carriage (62) between the disengaged position and the intermediate position, the carriage (62) follows a circular path located in a plane perpendicular to the first rotation axis (Z1).	



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(23) Priority Data: N/A
(71) Applicant: China Infrastructure Construction BD Co Ltd of Bangladesh of Meghna Industrial Economic Zone, Mograpara, Sonargaon, Narayanganj, Dhaka, Nationality -Bangladesh
(72) Inventors: (1) Li Yongjiag, Managing Director of China Infrastructure Construction BD Co Ltd, Meghna Industrial Economic Zone, Mograpara, Sonargaon, Narayanganj, Dhaka, Bangladesh-1440, Bangladesh Nationality - China
(51) INT. CL. : E02D 5/72
(54) Invention Title: An integrated pipe pile with concrete pile shoe
(57) Abstract



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(23) Priority Data: N/A
(71) Applicant: China Infrastructure Construction BD Co Ltd of Bangladesh of Meghna Industrial Economic Zone, Mograpara, Sonargaon, Narayanganj, Dhaka, Nationality -Bangladesh
(72) Inventors: (1) Li Yongjiag, Managing Director of China Infrastructure Construction BD Co Ltd, Meghna Industrial Economic Zone, Mograpara, Sonargaon, Narayanganj, Dhaka, Bangladesh-1440, Bangladesh Nationality - China
(51) INT. CL. : E02D 5/58
(54) Invention Title: Prestressed Pipe Pile Buckle and Quick Joint
(57) Abstract



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(23) Priority Data: European Patent Office (EPO), Number :241591213, Date : 22-02-2024.
(71) Applicant: Swiss Performance Chemicals AG of Rothausstrasse 61, 4132 Muttensz, Nationality -Switzerland
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(74) Agent : Advanced IP Law Firm, Suite#9/C (9th Floor), Fahima Tower, 42-43, Purana Paltan, Dhaka-1000, Bangladesh
(51) INT. CL. : D06P 5/30
(54) Invention Title: PIGMENT INK FORMULATION FOR DOD INKJET PRINTING OF TEXTILE FABRICS
(57) Abstract The present invention relates to a silicone- and fluorine-free water-based pigment piezoelectric drop-on-demand inkjet ink formulation for textile printing, and a process for manufacturing a printed textile fabric with said formulation.



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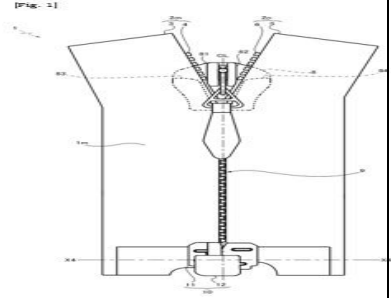
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-71 (22) Filed: 11/02/2025	
(23) Priority Data: Finland, Number :20245177, Date : 16-02-2024.	
(71) Applicant: Spinnova Oyj of Palokärjentie 2-4, 40320 Jyväskylä, Nationality -Finland	
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(74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : B28B 21/92	
(54) Invention Title: AN APPARATUS AND METHOD FOR TREATING A ROTATABLE METAL SURFACE	
(57) Abstract An apparatus for treating at least a portion of a rotatable metal surface (002), the apparatus comprising at least a first treatment unit (004) and a second treatment unit (006), wherein the first treatment unit and second treatment unit comprise or are configured to receive at least a first treatment band (016) and at least a second treatment band (020), respectively, the further wherein the treatment units comprise a mechanism for maneuvering the treatment bands in a treatment direction (018) with respect to the rotatable metal surface, wherein the first treatment unit and second treatment unit are configured to be movable along a lateral axis (Z) with respect to the rotatable metal surface to be treated, wherein said lateral axis is essentially perpendicular to an axis (Y) corresponding to the direction of movement of the rotatable metal surface, further wherein the second treatment band is configured to contact a treatment location (024) on the rotatable metal surface after a predetermined delay time after the first treatment band has contacted the treatment location on the rotatable metal surface. A method for treating a metal surface.	



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(23) Priority Data: Japan, Number :2024013670, Date : 02-04-2024.	
(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 1018642, Nationality -Japan	
(72) Inventors: (1) HOSOKAWA, Yusuke of c/o YKK CORPORATION Kurobe, 200, Yoshida, Kurobe-shi, Toyama 9388601, Japan Nationality -Japan, (2) EKKO, Tomoyuki of c/o YKK CORPORATION Kurobe, 200, Yoshida, Kurobe-shi, Toyama 9388601, Japan Nationality -Japan, (3) KAZUTA, Hisao of c/o YKK CORPORATION Kurobe, 200, Yoshida, Kurobe-shi, Toyama 9388601, Japan Nationality -Japan	
(74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : B21F 45/18	
(54) Invention Title: SEP ARABLE STOP FOR CONCEAL SLIDE FASTENER AND CONCEAL SLIDE FASTENER INCLUDING THE SAME	
(57) Abstract With respect to a stop (10) of a conceal slide fastener(1), a male member (11) includes a protrusion (71) protruding in an up-down direction, and a top cover (62) of a female member (12) has a stopper surface (72) that prevents the protrusion (71) from being displaced in a direction away from a fastener tape (5) at least in a state where the first bar (11b) has been fully inserted into the accommodating groove (61g).	



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(23) Priority Data: Japan, Number :2024019714, Date : 13-02-2024.
(71) Applicant: Resonac Corporation of 9-1, Higashi-Shimbashi 1-chome, Minato-ku, Tokyo 105-7325, Nationality - Japan
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(74) Agent : HOSSAIN IP LAW AGENCY, 183/6/C, TRUST HOMES, Level 5A Dewanpara, West Matikata, Vashantek, Dhaka-1206, Bangladesh
(51) INT. CL. : C30B 25/06
(54) Invention Title: REACTIVE HOT MELT ADHESIVE AND STRUCTURE
(57) Abstract The reactive hot melt adhesive includes a urethane prepolymer, and the urethane prepolymer includes a structural unit derived from a trifunctional polyol.



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-75 (22) Filed: 13/02/2025	
(23) Priority Data: United States of America, Number :63574690, Date : 04-04-2024.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
(72) Inventors: (1) Keeth Saliya Jayasinghe LADDU of Antreantie 22 C, Espoo, 02140, Finland Nationality -Sri Lanka, (2) Samantha CAPORAL DEL BARRIO of Flintevej 16, Aalborg, 9000, Denmark Nationality -France, (3) Paolo BARACCA of Franziskanerstrasse 38, Munich, 81669, Germany Nationality -Italy, (4) Dhanushka Nalin Jayaweera RAJAPAKSHALAGE of Yliopistokatu 38 As 416, Oulu, 90570, Finland Nationality -Sri Lanka, (5) Kathiravetpillai SIVANESAN of 16884 NW Trillium St., Portland, OR, 97229, United States of America Nationality -Canada	
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(51) INT. CL. : B23K 101/28	
(54) Invention Title: BEAM MANAGEMENT	
(57) Abstract Embodiments of the present disclosure relate to beam management, for example, user equipment initiated beam management UEIBM. In an aspect, a terminal device receives from a network device a configuration for a filtering parameter for UEIBM. The terminal device determines an event for triggering the UEIBM based on the filtering parameter for the UEIBM. The terminal device transmits to the network device information of the UEIBM based on the event. In this way, the filtering parameter on the measurements can be determined for UEIBM, and the UEIBM can be performed based on the parameters, thereby improving the performance of communication with UEIBM.	 <pre>graph TD 110[TERMINAL DEVICE] 120[NETWORK DEVICE] 120 -- "200 Configuration for a filtering parameter for UEIBM" --> 110 110 -- "203 Determine an event for triggering the UEIBM based on the filtering parameter for the UEIBM" --> 110 110 -- "205 Information of the UEIBM" --> 120 120 -- "207 Perform the UEIBM based on the information of the UEIBM" --> 120</pre>



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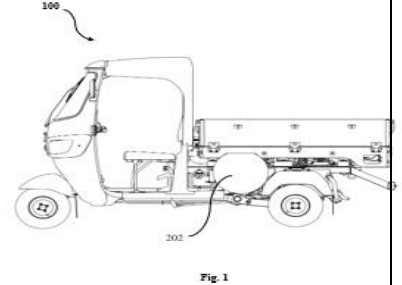
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-76 (22) Filed: 16/02/2025	
(23) Priority Data: European Patent Office (EPO), Number :241590637, Date : 22-02-2024.	
(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland	
(72) Inventors: (1) ZURLINDEN, Thibault of Route de Taillepied 77, 1095 Lutry, Switzerland Nationality - Switzerland, (2) FAVRE, Virgile of Chemin Benjamin Dumur 8, 1004 Lausanne, Switzerland Nationality -Switzerland, (3) BERTOLOTTI, Amaury of 55c Avenue de la Gare , 1022 Chavannes-Près-Renens, Switzerland Nationality - Switzerland	
(74) Agent : Advanced IP Law Firm, Suite#9/C (9th Floor), Fahima Tower, 42-43, Purana Paltan, Dhaka-1000, Bangladesh	
(51) INT. CL. : B65B 51/00	
(54) Invention Title: TRANSFERRING DEVICE AND METHOD FOR PRODUCING N SECURITY DOCUMENTS	
(57) Abstract Transferring device and method for producing N security documents A transferring device (100) for orienting platelet-shaped magnetic or magnetizable pigment particles contained in a radiation curable coating composition (200) and applied on a substrate (S), the transferring device (100) comprising: a number N of identical magnetic blocks (102) aligned along an alignment line (103) provided on an outer surface of the transferring device (100), the magnetic blocks (102) each including M magnetic field generating devices (101) each generating a corresponding magnetic field such that the magnetic blocks (102) each generate a block magnetic field, N being greater than or equal to two, and M being greater than or equal to one; and a shielding element (105) partly isolating the block magnetic field of each magnetic block (102) from the block magnetic field of the other magnetic blocks (102), or a compensation magnetic block (106) provided alongside the magnetic block (102).	



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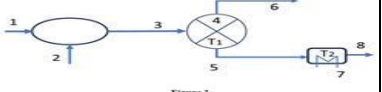
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-77 (22) Filed: 16/02/2025	
(23) Priority Data: India, Number :202441011532, Date : 19-02-2024.	
(71) Applicant: TVS Motor Company Limited of Chaitanya, No 12 Khader Nawaz Khan Road, Nungambakkam, Chennai-600 006, Tamil Nadu, Nationality -India	
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(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2 (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh	
(51) INT. CL. : F02D 3/04	
(54) Invention Title: A FUEL INJECTION SYSTEM AND A METHOD THEREOF	
(57) Abstract The present subject matter relates generally to a fuel injection system (200) and the method (300) for purging a fuel pressure in a fuel injector (201) of a fuel injection system (200). The fuel injection system (200) comprises a fuel injector (201), a control unit, and a regulating member. The control unit is configured to orchestrate a purge cycle upon a first value exceeding a second value. The purge cycle comprises a cyclic activation and deactivation of the fuel injector (201) at a predefined frequency for a predefined duration. The regulating member is configured to be controlled by the control unit in order to simultaneously halt the supply of the gaseous fuel from at least one fuel reservoir (202) to the fuel injector (201) during the orchestration of the purge cycle for the predefined duration.	



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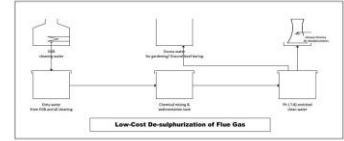
(11) Patent registration No and date , (21) Appl. No. BD-P-2025-78 (22) Filed: 17/02/2025	
(23) Priority Data: Australia, Number :2024900392, Date : 19-02-2024.	
(71) Applicant: Mineral Carbonation International Pty Ltd of Equity Partners, Unit 56, 40 Mort Street, Braddon, Australian Capital Territory, 2612, Nationality -Australia	
(72) Inventors: (1) Annie Cote of 31 Wakal Street, Charlestown, New South Wales 2290, Australia Nationality - Australia, (2) Jason Peter Mann of 39 Gundaroo Circuit, Maryland, New South Wales 2287, Australia Nationality - Australia, (3) Mark Stuart Rayson of 13 Morse St, Speers Point, New South Wales 2284, Australia Nationality - Australia, (4) Faezeh Farhang of Meierijlaan 36, 2548 NN, Den Haag, Netherlands Nationality -Iran (Islamic Republic of), (5) Emad Benhelal of 5/164 Jubilee Road, Elernmore Vale, New South Wales 2287, Australia Nationality -Australia	
(74) Agent : REMFRY & SON LIMITED, 56, New Eskaton Road, 4th Floor, Dhaka-1000, Bangladesh	
(51) INT. CL. : C01F 5/24	
(54) Invention Title: MAGNESIUM CARBONATE PRODUCTS	
(57) Abstract The present invention relates to aprocess for carbon dioxide (CO ₂) capture, sequestration and utilisation through the production of magnesium carbonate products, the process comprising: a) contacting an aqueous slurry of magnesium silicate with CO ₂ to produce an aqueous slurry comprising hydrated magnesium (hydroxy) carbonate; b) subjecting the aqueous slurry comprising hydrated magnesium (hydroxy) carbonate to a separation process at a first temperature to produce a concentrate having an increased concentration of the hydrated magnesium (hydroxy) carbonate relative to that of the aqueous slurry comprising hydrated magnesium (hydroxy) carbonate produced in step (a); and c) subjecting the concentrate to a second temperature above the first temperature to produce a magnesium carbonate product having (i) a reduced molar ratio of hydroxyl group (OH) or water of crystallisation to magnesium, and (ii) a different crystal structure to the hydrated magnesium (hydroxy) carbonate in the concentrate.	
 	



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(23) Priority Data: N/A	
(71) Applicant: Md Hasan Zahir of Girls College road, Professorpara, Holding no-1276, Noapara,Guakhula, House-48, Jessore, Abohynagar, 7460, Bangladesh	
(72) Inventors: (1) Md Hasan Zahir of Girls College road, Professorpara, Noapara, Guakhula, Holding no-1276, House-48, Jessore, Abohynagar, 7460, Bangladesh	
(51) INT. CL. : B01D 53/50	
(54) Invention Title: Low-Cost De-sulphurization of Flue Gas	
(57) Abstract Abstract: This patent application introduces an inventive Flue Gas De-sulphuration (FGD) process for exhaust gas emissions. The process incorporates chemical solution mixes directed through exhaust chimneys via a natural draft mechanism, undergoing sequential treatments with calcium oxide (CaO) and sodium hydroxide (NaOH). The method not only achieves effective de-sulphuration but also integrates pH adjustment and fertilizer production for a comprehensive and sustainable solution. The low-cost Flue Gas De-sulphuration (FGD) process for exhaust gas emissions offers several advantages over conventional methods. This innovative approach involves directing chemical solution mixes through exhaust chimneys via a natural draft mechanism, undergoing sequential treatments with calcium oxide (CaO) and sodium hydroxide (NaOH).	





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(23) Priority Data: N/A
(71) Applicant: University of Dhaka of Dhaka-1000, Nationality -Bangladesh
(72) Inventors: (1) Dr. Abu Naser Md. Hamidul Kabir, Chairman of Department of Applied Chemistry & Chemical Engineering, University of Dhaka, Dhaka-1000, Bangladesh Nationality -Bangladesh
(51) INT. CL. : B01J 20/20
(54) Invention Title: Production and characterization of activated carbon from jute stick by phosphoric acid impregnation method
(57) Abstract



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-81 (22) Filed: 18/02/2025	
(23) Priority Data: China, Number :2024078625, Date : 26-02-2024.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
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(51) INT. CL. : G06G 1/00	
(54) Invention Title: DEVICES, METHODS, APPARATUSES, AND COMPUTER READABLE MEDIA FORCONDITIONAL HANDOVER	
(57) Abstract Disclosed are devices, methods, apparatuses, and computer readable media forconditional handover. An example apparatus for a terminal device may include at least one processor and at least one memory. The at least one memory may store instructions that, when executed by the at least one processor, may cause the apparatus at least to: receive downlink control information, DCI, indicating a network energy saving, NES, mode after detecting a condition of a NES conditional handover, CHO, is met; and check whether the condition is met when receiving the DCI.	

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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-82 (22) Filed: 18/02/2025 (23) Priority Data: Japan, Number :2024010049, Date : 14-03-2024.	
(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 101-8642, Nationality -Japan (72) Inventors: (1) Koji YAMAGISHI of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938~8601, Japan Nationality -Japan, (2) Yohei MIYAZAKI of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938~8601, Japan Nationality -Japan (74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : B65D 17/34	
(54) Invention Title: SLIDE FASTENER SLIDER	
(57) Abstract A pull tab includes an opening that penetrates the pull tab and that attaches the pull tab to the pull tab attachment portion, a shaft portion formed adjacent to the opening at an end portion of the pull tab and attached to the pull tab attachment hole of the pull tab attachment portion, and a rib formed from an outer peripheral edge of at least one of a front surface and a back surface of the pull tab toward a front-back direction of the pull tab, a front-back direction dimension of a portion of the pull tab where the rib is provided is greater than a front-back direction dimension between each of front flanges and each of back flanges, and the rib includes an extension that extends inward in a width direction from a portion facing the opening in the width direction.	



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(23) Priority Data: Japan, Number :2024012296, Date : 27-03-2024.	
(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 101-8642, Nationality -Japan	
(72) Inventors: (1) Yoshiyuki SHO of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan	
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(51) INT. CL. : B21F 45/18	
(54) Invention Title: STOPPER-EQUIPPED SLIDE FASTENER AND SLIDE FASTENER-EQUIPPED PRODUCT	
(57) Abstract In a stopper-equipped slide fastener, a plurality of elements include an engagement element that is configured to engage elements of a pair of left and right element members with each other, and an accommodation element at least a portion of which is accommodated inside a stopper, the stopper includes a front member and a back member that sandwich the accommodation element. One of the front member and the back member includes a stud, and another of the front member and the back member includes a hole into which the stud is inserted. The front member and the back member are fixed to each other by the stud that is inserted through the hole and an insertion hole formed in the accommodation element or an insertion hole formed by the adjacent accommodation elements.	



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(23) Priority Data: N/A	
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh	
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(51) INT. CL. : B64C 13/12	
(54) Invention Title: Microprocessor-Controlled UV-Ozone Cleaner with Dual Ozone Inputs and Periodic Control	
(57) Abstract This invention relates to a UV-C LED-based ozone cleaning apparatus designed for precise and efficient substrate surface cleaning, with particular applications in research laboratories and the organic electronics industry. The system integrates a high-power UV-C LED light source (270–280 nm) for enhanced efficiency and longevity, paired with an advanced ozone generation mechanism that utilizes either ambient air or high-purity oxygen. A microprocessor-controlled interface manages all operations, ensuring optimal cleaning while preventing overoxidation. The device operates in two distinct modes: UV-O ₃ (with oxygen) and UV-Air-O ₃ (with air), featuring periodic ozone cycling to regulate concentration and maximize energy efficiency. Key components include a centrally positioned array of UV-C LEDs, an ozone generator, and a microprocessor-controlled timing system, all housed in a safety-first design. The system incorporates interlocks, alarms, and a tray sensor to prevent operation when the substrate chamber is unsecured. User-friendly features such as a touchscreen interface allow for precise cleaning time adjustments and customizable ozone cycling settings, offering flexibility for various substrate materials. The absence of exhaust ports and reflectors streamlines the design while maintaining cleaning effectiveness. Innovations like dual air/oxygen inputs, controlled ozone generation cycles, and comprehensive safety mechanisms set this invention apart from existing UV-ozone cleaning devices. By addressing challenges such as substrate overoxidation, limited input flexibility, and inefficient control systems, this invention provides a versatile and reliable solution for advanced cleaning needs in academia and industry.	



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(23) Priority Data: N/A	
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh	
(72) Inventors: (1) Munira Sultana, Senior Scientific Officer of IERD, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Dr. Muhammad Shahriar Bashar, Principal Scientific Officer of IERD, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) Syed Shafquat Mahmood, Senior Scientific Officer of BCSIR, Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) Ayesha Siddika, Senior Scientific Officer of BCSIR, Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (5) Dr. Afrina Sharmin, Senior Scientific Officer of IERD, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (6) Shahrar Ahmed Joy, Scientific Officer of IERD, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dr. Quadrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh	
(51) INT. CL. : F21S 13/14	
(54) Invention Title: Gravity-Powered Renewable Lighting System	
(57) Abstract The Gravity-Powered Renewable Lighting System is an innovative and sustainable lighting solution that harnesses gravitational energy to generate electricity. Designed to address energy scarcity in off-grid and rural communities, the device comprises a weight bag, a pulley system, a series of gears, and a dynamo connected to LED lights. When the weight bag (12-15 kg) is lifted to a height of five feet, its slow descent converts gravitational potential energy into rotational energy. This rotational energy drives the dynamo to produce electricity, powering the LEDs. Unlike traditional lighting systems, the Gravity-Powered Renewable Lighting System requires no fuel, batteries, or external power sources, making it a cost-effective and eco-friendly alternative to kerosene lamps. The device produces 36 lumens—three times the brightness of a conventional kerosene lamp- and can operate for up to 20 minutes per lift. With zero operational costs and a robust construction, the Gravity-Powered Renewable Lighting System is designed to last 15 years with minimal maintenance. By offering a clean, reliable, and affordable lighting solution, the Gravity-Powered Renewable Lighting System addresses the limitations of existing renewable technologies and aligns with global efforts to reduce carbon emissions. Its innovative design and practical application make it an essential tool for underserved communities, promoting sustainable energy adoption and improving quality of life.	 Figure 1: Innovative steps of the process for the fabrication of Gravity-Powered Renewable Lighting System



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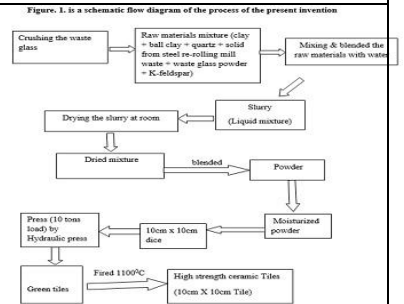
(11) Patent registration No and date ,
(21) Appl. No. BD-P-2025-86
(22) Filed: 19/02/2025
(23) Priority Data: N/A
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh
(72) Inventors: (1) Munira Sultana, Senior Scientific Officer of IERD, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Dr. Muhammad Shahriar Bashir, Principal Scientific Officer of IERD, Bangladesh Council of Scientific and Industrial Research (BCSIR), Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) Mashudur Rahaman, Principal Scientific Officer of IFRD, BCSIR, Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) Md. Saidul Islam, Senior Scientific Officer of IFRD, BCSIR, Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (5) Dr. Afrina Sharimn, Senior Scientific Officer of IFRD, BCSIR, Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (6) Md. Azizul Hoque, Senior Scientific Officer of IFRD, BCSIR, Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (7) Syed Shafquat Mahmood, Senior Scientific Officer of BCSIR, Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (8) Foezullah Talukder, Head of Climate Change Program, Christian Commission for Development in Bangladesh (CCDB), Bangladesh Nationality -Bangladesh
(51) INT. CL. : F24B 1/26
(54) Invention Title: Development of Double Mouth Portable Cooking Stove with Heat Emphasizer
(57) Abstract The present invention relates to a metallic portable double-mouth Improved Cook Stove (ICS), named Unan, designed to enhance thermal efficiency, reduce fuel consumption, and minimize indoor air pollution. The invention addresses key shortcomings of traditional and existing ICS models, such as low efficiency, high emissions, and limited durability, by incorporating innovative features and user-centric design. Unan achieves 40% thermal efficiency, surpassing the 30% average of conventional ICS, through the integration of advanced structural and functional components. At its core is a double-layered metallic construction consisting of an inner layer made of cast iron for durability under high-heat conditions, an outer layer of stainless steel for corrosion resistance and aesthetic appeal, and a 1-inch refractory blanket placed between these layers to minimize heat loss and maximize fuel economy. A key innovation is the heat emphasizer, a metallic extension strategically positioned beneath the second cooking mouth. This emphasizer directs flue gases to strike the bottom of the pot on the second burner, significantly enhancing heat transfer and enabling efficient secondary cooking without additional fuel. The double-mouth configuration allows simultaneous cooking, making it ideal for rural households. Unan's lightweight and robust construction ensures portability, allowing users to shift between indoor and outdoor cooking depending on seasonal and cultural needs. The stove also features a chimney system for the safe expulsion of flue gases, reducing indoor air pollution and protecting users' health. The design is tested using the Water Boiling Test protocol v4.2.4, demonstrating its superior efficiency and practicality. By reducing biomass consumption, lowering emissions, and providing a durable and scalable solution, Unan supports sustainable cooking practices, environmental conservation, and public health improvements. Its affordability and reliance on locally available materials make it an ideal choice for mass adoption in resource-constrained regions, advancing global efforts toward clean energy and health equity.



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(23) Priority Data: N/A
(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr.Qudrat-i-Khuda Road, Dhanmondi, Dhaka 1205, Nationality -Bangladesh
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(51) INT. CL. : F16L 9/10
(54) Invention Title: High strength ceramic tiles utilizing solid waste from steel re-rolling mill
(57) Abstract Solid waste from steel re-rolling mill and other industrial solid waste in Bangladesh are present which are used to produce ceramic materials. The concept of utilization of solid wastes embraces the basic principles of recovery, recycling and converting to value added products. Recovery and recycling is a well-recognized process. It again generates waste which results in a disposal problem. High strength ceramic floor and wall tiles are one of such value added products where solid waste can be used as raw materials as well as filler. Normally, commercial tiles are mainly made in clay, quartz, K-feldspar and Na-feldspar. High strength ceramic tile was made by mixtures containing certain amount of clay, quartz, solid waste from steel re-rolling mill and k-feldspar. Waste glass (Soda-lime silica glass) is used instead of Na-feldspar. The green tiles were fired at different temperatures in the range 1100 – 1175 0 C with soaking time of 1h and the physico-mechanical and others properties and microstructure were investigated. The optimum temperature and optimum properties of high strength ceramic tiles are determined to compare to standard properties of ceramic tiles. The results revealed that the solid waste from steel re-rolling mill acts as a filler as like quartz when it is used as an additive in ceramic mixture. The prepared high strength ceramic tiles utilizing solid waste from steel re-rolling mill increases the strength or modulus of rupture with increasing temperature and after a certain temperature, these values decrease. Modulus of rupture (133Mpa) is very high in porcelain tiles at 11000C (Optimum Temperature) according to ASTM standard values. The bulk density values increase with increasing temperature.





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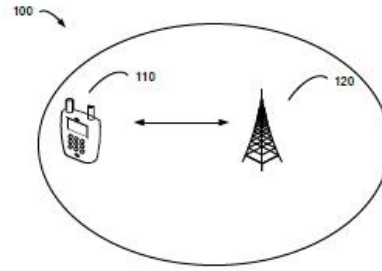
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-89 (22) Filed: 19/02/2025	
(23) Priority Data: United States of America, Number :63555232, Date : 19-02-2024.	
(71) Applicant: Telefonaktiebolaget LM Ericsson (publ) of SE-164 83 Stockholm, Nationality -Sweden	
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(74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : G01R 31/08	
(54) Invention Title: METHODS FOR SELECTING AND CONFIGURING MEASUREMENT RESOURCES BASED ON CONFIGURED PREDICTION RESOURCES FOR AIML RADIO MEASUREMENT PREDICTIONS	
(57) Abstract Systems and methods are disclosed for User Equipment (UE) assisted resource set selection for Artificial Intelligence (AI)/Machine Learning (ML) model or functionality such as beam prediction. In one embodiment, a method performed by a UE comprises receiving, from a network node, first information that indicates a first set of measurement resources on which the UE is to perform measurement predictions and receiving, from the network node, second information that indicates a second set of measurement resources with which the UE can be configured to perform measurements, based on which the measurement predictions can be generated. The method further comprises determining whether an applicability condition(s) for using an AI/ML model(s) or function(s) at the UE to generate measurement predictions are satisfied for the first and second sets of measurement resources and sending a first indication to the network node indicating whether the one or more applicability conditions are satisfied.	<pre>graph LR subgraph Training_pipeline [Training pipeline] direction TB DA1[Data acquisition] --> DPP1[Data preprocessing] DPP1 --> MT[Model training] MT --> MV[Model validation] MV --> MD[Model deployment] end MD --> MD_Center[Model deployment] MD_Center --> subgraph Inference_pipeline [Inference pipeline] direction TB DMM[Data Model monitoring] --> MO[Model operation] MO --> DPP2[Data preprocessing] DPP2 --> DA2[Data acquisition] end MO --> MT subgraph Feedback_Loop [Feedback Loop] MO --> MT end</pre>



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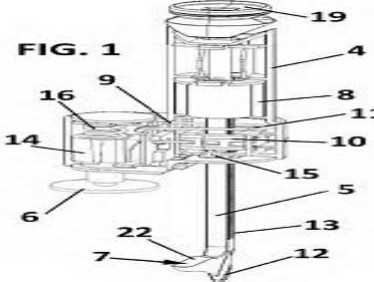
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-90 (22) Filed: 19/02/2025	
(23) Priority Data: United Kingdom, Number :24047938, Date : 04-04-2024.	
(71) Applicant: Nokia Technologies Oy of Karakaari 7, 02610 Espoo, Nationality -Finland	
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(74) Agent : REMFRY & SON, PATENT & TRADE MARK ATTORNEYS, 56, Nnew Eskaton Road, 4th Floor, G.P.O BOX NO-855, Dhaka-1000, DHAKA, Bangladesh	
(51) INT. CL. : G01S 13/84	
(54) Invention Title: METHOD OF DETERMINING MEASUREMENT REQUIREMENTS ON HIGHER PRIORITY CARRIERS	
(57) Abstract The present disclosure provides a terminal device. The terminal device can receive a first parameter for the terminal device, wherein a first carrier is used by the terminal device. The terminal device can perform a comparison between the first parameter and one or more thresholds, and determine a second parameter for the terminal device based on the comparison. The second parameter can indicate a time interval for the terminal device to search for one or more carriers with a priority higher than the first carrier. The terminal device can receive the first parameter from a network device.	 FIG. 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-94 (22) Filed: 20/02/2025	
(23) Priority Data: European Patent Office (EPO), Number :243821741, Date : 20-02-2024.	
(71) Applicant: OPEN MIND VENTURES, S.L.U. of C/ Sant Antoni de Baix 45, 08700 IGUALADA (Barcelona), , Nationality -Spain	
(72) Inventors: (1) BALSELLS MERCADE Antoni of C/ Sant Antoni de Baix 45, 08700 IGUALADA (Barcelona), Spain Nationality -Spain, (2) GUIMERA PEDROLA Antoni of C/ Sant Antoni de Baix 45, 08700 IGUALADA (Barcelona), Spain Nationality -Spain, (3) VALLEIS CUYAIS Javier of C/ Sant Antoni de Baix 45, 08700 IGUALADA (Barcelona), Spain Nationality -Spain, (4) DE LA CALLE PRAT Diidac of C/ Sant Antoni de Baix 45, 08700 IGUALADA (Barcelona), Spain Nationality -Spain	
(74) Agent : Shahid & Alliance, 30/3 B C DAS Street, Lalbag, Dhaka-1205 , Bangladesh	
(51) INT. CL. : B65G 47/90	
(54) Invention Title: DEVICE FOR HANDLING ELEMENTS	
(57) Abstract The device for handling elements comprises a body (4) fitted with a stop (6); a stem (5) which is longitudinally movable and rotatable relative to the body (4), the stem comprising a flange (7) at one end with a gripping surface (22), wherein the stop (6) is movable between a release position and a gripping position, the stop (6) moving from its release position to its gripping position when the stem (5) is longitudinally displaced relative to the body (4) by actuating a compression spring (16); and the body (4) also comprises a closing spring (9) which actuates a locking element (10) that locks the stem (5) relative to the body (4).	
	



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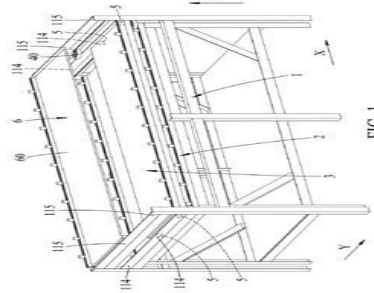
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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-98 (22) Filed: 23/02/2025	
(23) Priority Data: United States of America, Number :18590426, Date : 28-02-2024.	
(71) Applicant: Crystal Lagoons Technologies, Inc. of 1395 Brickell Avenue, suite 800, Miami, FL 33131, Nationality -United States of America	
(72) Inventors: (0) FISCHMANN, Fernando of 1395 Brickell Avenue, suite 800, Miami, FL 33131, United States of America Nationality -United States of America	
(74) Agent : Munshi & Associates, 194/D/1, Tejgunipara, Tejgaon, Dhaka-1215, Bangladesh	
(51) INT. CL. : C02F 1/00	
(54) Invention Title: DUAL METHOD AND SYSTEM FOR THE LOW-COST ELIMINATION OF SUSPENDED PARTICLES FROM A BODY OF WATER TO MAINTAIN WATER QUALITY SUITABLE FOR DIRECT CONTACT RECREATIONAL ACTIVITIES	
(57) Abstract A dual method and system for eliminating suspended particles from artificial bodies of water possessing a minimum surface area of 10,000 m ² is provided. A permanent sub-standard centralized filtration flow is utilized together with a Chromo-Turbidity Index (CTI) below about 19. The CTI is maintained by introducing an effective amount of a CTI-Decreasing Agent. Other agents can also be introduced.	



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(23) Priority Data: China, Number :2024208539457, Date : 23-04-2024.	
(71) Applicant: GOLDEN CHANG INDUSTRIAL CO., LTD. of No. 15, Wanquan St., Sanchong Dist., New Taipei City, Postal code: 241051, Chinese Taipei, Nationality -China	
(72) Inventors: (1) Shu-Tzu HO of C/O. GOLDEN CHANG INDUSTRIAL CO., LTD. of No. 15, Wanquan St., Sanchong Dist., New Taipei City, Postal code: 241051, Chinese Taipei, China Nationality -China	
(74) Agent : M/S. BEPARY & BEPARY, 68-69 Concept Tower, Suite # 5-B (4th Floor), Green Road, Dhaka-1205, Bangladesh	
(51) INT. CL. : A47C 23/057	
(54) Invention Title: PRINTING TABLE DEVICE	
(57) Abstract A printing table device includes a support frame unit (1), a fixed table (2) that is mounted to the support frame unit (1), two first guide rails (4), and a first movable table unit (3). The first guide rails (4) are connected to the support frame unit (1), spaced apart from each other in a first direction (X), and disposed above the fixed table (2), and extend in a second direction (Y) perpendicular to the first direction (X). The first movable table unit (3) is disposed above the fixed table (2). The first movable table unit (3) includes a plurality of first rollers (5) that engage the first guide rails (4) such that the first movable table unit (3) is movable relative to the fixed table (2) in the first direction (X) to cover or expose a printing area of the fixed table (2).	
	



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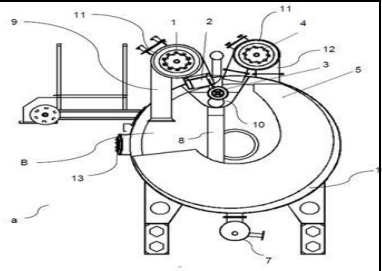
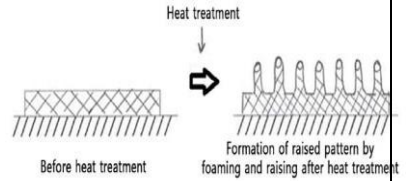
(11) Patent registration No and date , (21) Appl. No. BD-P-2025-155 (22) Filed: 23/04/2025	
(23) Priority Data: Turkey, Number :2024004887, Date : 24-04-2024.	
(71) Applicant: ÇİÇEK MAKİNE TEKSTİL ARGE SANAYİ VE TİCARET ANONİM ŞİRKETİ of YAYLACIK MAH. (506) İŞİMSİZ SOK. NO:37 NİLÜFER BURSA, Nationality -Turkey	
(72) Inventors: (1) Çilem KARAKOYUN of C/O. ÇİÇEK MAKİNE TEKSTİL ARGE SANAYİ VE TİCARET ANONİM ŞİRKETİ of YAYLACIK MAH. (506) İŞİMSİZ SOK. NO:37 NİLÜFER BURSA, Turkey Nationality - Turkey	
(74) Agent : M/S. BEPARY & BEPARY, 68-69 Concept Tower, Suite # 5-B (4th Floor), Green Road, Dhaka-1205, Bangladesh	
(51) INT. CL. : D06F 33/46	
(54) Invention Title: Dyeing Machine That Reduces Water Consumption	
(57) Abstract The present invention describes a dyeing machine (a) that supports sustainable production practices by optimizing the use of water and chemicals during dyeing processes. The design of the dyeing machine (a) ensures maximum recycling and reuse of water, thus reducing environmental impacts and lowering operating costs. The machine offers a more environmentally friendly approach as it reduces energy and water consumption while using the dye solution efficiently.	
	

Figure 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-160 (22) Filed: 30/04/2025	
(23) Priority Data: Republic of Korea, Number :1020240065297, Date : 20-05-2024.	
(71) Applicant: HANYANG PETROCHEMICAL CO., LTD. of 311 Cheomdan-ro, Danwon-gu, Ansan-si, Gyeonggi-do, 15607, Nationality -Republic of Korea	
(72) Inventors: (1) Won Bok, KIM of 201-4201, 17 Haeyang 5-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, 15596, Republic of Korea Nationality -Republic of Korea	
(74) Agent : M/S. BEPARY & BEPARY, 68-69 Concept Tower, Suite # 5-B (4th Floor), Green Road, Dhaka-1205, Bangladesh	
(51) INT. CL. : C08L 83/04	
(54) Invention Title: “Composition for Puff Printing Foamed Silicone Resin, Puff Printing Foamed Silicone Resin, and Printing Paste Containing the Same”	
(57) Abstract The present invention relates to a pile-type raised foam silicone resin composition, a pile-type raised foam silicone resin comprising the same, and a printing agent using the same. The present invention also relates to a printing material that can impart a three-dimensional velvet effect, a shimmering effect, an improved soft tactile sensation, and flexibility to a printed product, and a novel printing agent and a printed product using the printing material.	 Figure: 1A



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-191 (22) Filed: 18/06/2025	
(23) Priority Data: China, Number :2024107934260, Date : 19-06-2024.	
(71) Applicant: Ningbo Yinzhou Yongyao Sewing Machinery Co., LTD of No. 528, Yuncai Road, Yunlong Town, Yinzhou District, Ningbo, Zhejiang , 315000 , China	
(72) Inventors: (1) Xiaoyong WANG of No. 528, Yuncai Road, Yunlong Town, Yinzhou District, Ningbo, Zhejiang , 315000 , China, (2) Gang LI of No. 528, Yuncai Road, Yunlong Town, Yinzhou District, Ningbo, Zhejiang , 315000 , China	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : D05B 57/26	
(54) Invention Title: SHUTTLE FRAME AND ROTATING SHUTTLE ASSEMBLY COMPRISING THE SAME	
(57) Abstract The disclosure provides a shuttle frame including: a bottom plate; a side plate connected to the bottom plate; a bobbin shaft disposed at the center of the bottom plate for mounting a bobbin; and a bobbin positioning member disposed on the inner side of the side plate. The side plate includes a needle passing hole facing the bobbin shaft. The side of the bobbin positioning member distal to the bottom plate is flush with the side of the needle passing hole proximal to the bottom plate, or the bobbin positioning member at least partially protrudes from the side of the needle passing hole. The needle passing hole has an outer opening, and the side of the outer opening proximal to the bottom plate includes a first guide surface. The first guide surface extends from the outer side of the needle passing hole toward the bobbin positioning member.	1/59 FIG. 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-193 (22) Filed: 19/06/2025
(23) Priority Data: United Kingdom, Number :24088437, Date : 20-06-2024.
(71) Applicant: SAGES London Ltd of 301 Jam Studios Biscuit Factory, 100 Drummond Road London, SE16 4DG, Nationality -United Kingdom
(72) Inventors: (1) Alice Taneka Sara Jade SIMPSON of 301 Jam Studios Biscuit Factory, 100 Drummond Road London, SE16 4DG, United Kingdom Nationality -United Kingdom
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh
(51) INT. CL. : C09B 61/00
(54) Invention Title: NATURAL DYES
(57) Abstract A method for producing a powdered natural colourant comprises: (a) heating organic matter in a solvent under reduced pressure to provide a coloured solution and residual solid matter; (b) separating the coloured solution from the residual solid matter; and (c) spray drying the coloured solution to provide a powdered natural colourant. The resulting powdered natural colourant may be used as a textile dye.



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-214 (22) Filed: 24/07/2025	
(23) Priority Data: Japan, Number :2025007468, Date : 03-03-2025.	
(71) Applicant: YKK CORPORATION of 1, KANDA IZUMI-CHO, CHIYODA-KU, TOKYO 101-8642,, Nationality -Japan	
(72) Inventors: (1) Masayoshi KOJIMA of C/o. YKK CORPORATION KUROBE. 200, YOSHIDA, KUROBE-SHI, TOYAMA-KEN 938-8601, Japan Nationality -Japan, (2) Hiroki KURODA of C/o. YKK CORPORATION KUROBE. 200, YOSHIDA, KUROBE-SHI, TOYAMA-KEN 938-8601, Japan Nationality -Japan	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : B23D 1/10	
(54) Invention Title: CORD BODY GUIDE AND LENGTH ADJUSTMENT TOOL	
(57) Abstract A length adjustment tool using a cord body guide with free deformation and good usability can remotely stretch a desired position of a flexible article. The tool is provided at a portion of a flexible article 12 between a first position A and a second position B spaced apart, and includes multiple elements 22, 42, 52 on a line connecting the first position A and the second position B. The elements 22, 42, 52 have insertion holes 24, and the insertion holes 24 of the elements 22, 42, 52 independently communicate with each other on an imaginary line and slidably guide a cord body 16 that connects the first position A and the second position B. The multiple elements 22, 42, 52 are mounted to a side edge part 28a along a longitudinal direction of a tape part 28, and the tape part 28 is provided on the article 12.	

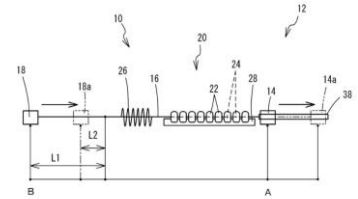


FIG. 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-241 (22) Filed: 18/08/2025	
(23) Priority Data: European Patent Office (EPO), Number :241988823, Date : 06-09-2024.	
(71) Applicant: Siegwark Druckfarben AG & Co KGaA of Alfred-Keller- Str. 55, 53721 Siegburg, Nationality - Germany	
(72) Inventors: (1) Andreas Kulawig of Ernst-Moritz-Arndt- Straße 12, 53757 Sankt Augustin, Germany Nationality - Germany, (2) Gilles Eisele of Chez Mermier, F-74250 Fillinges, France Nationality -France, (3) Nicolas Le Bail of c/o Siegwark France S.A.S, 13 route de Taninges, BP 506, 74105 Annemasse Cedex, France Nationality -France	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : B65D 65/40	
(54) Invention Title: Lamination structure with solvent-free adhesive	
(57) Abstract The present invention is related to a laminate (1) for packaging applications, comprising a first substrate layer (2) and an adhesive layer (5) present on a surface of said first substrate layer (2), and a second substrate layer (2') on which at least one ink layer (4) is provided, characterized in that said adhesive layer (5) is made from a solvent-free one-component adhesive composition comprising isocyanate moieties as functional groups. The present invention is furthermore related to laminate comprising an adhesive layer (5) made from a one-component adhesive composition.	
	FIG. 1



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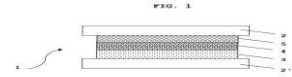
(11) Patent registration No and date , (21) Appl. No. BD-P-2025-242 (22) Filed: 18/08/2025	
(23) Priority Data: European Patent Office (EPO), Number :241988849, Date : 06-09-2024.	
(71) Applicant: Siegwark Druckfarben AG & Co. KGaA of Alfred-Keller- Str. 55, 53721 Siegburg, Nationality - Germany	
(72) Inventors: (1) Andreas Kulawig of Ernst-Moritz-Arndt- Straße 12, 53757 Sankt Augustin, Germany Nationality - Germany, (2) Gilles Eisele of Chez Mermier, 74250 Fillinges, France Nationality -France, (3) Nicolas Le Bail of c/o Siegwark France S.A.S, 13 route de Taninges, BP 506, 74105 Annemasse Cedex, France Nationality -France	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : B65D 65/40	
(54) Invention Title: Lamination structure for retort applications	
(57) Abstract The present invention is related to a laminate (1) for packaging applications, comprising a substrate layer (2) and an adhesive layer (5) present on a surface of said substrate layer (2), characterized in that said adhesive layer (5) is made from a one-component adhesive composition with an adhesive compound comprising a branched backbone structure and isocyanate moieties as functional groups. The present invention is furthermore related to an article, preferably, a flexible packing, comprising said laminate (1), and to a method for preparing said one-component adhesive composition.	
	FIG. 1



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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-243 (22) Filed: 18/08/2025	
(23) Priority Data: European Patent Office (EPO), Number :241988872, Date : 06-09-2024.	
(71) Applicant: Siegwark Druckfarben AG & Co. KGaA of Alfred-Keller- Str. 55, 53721 Siegburg, Nationality - Germany	
(72) Inventors: (1) Andreas Kulawig of Ernst-Moritz-Arndt- Straße 12, 53757 Sankt Augustin, Germany Nationality - Germany, (2) Gilles Eisele of Chez Mermier, 74250 Fillinges, France Nationality -France, (3) Nicolas Le Bail of c/o Siegwark France S.A.S, 13 route de Taninges, BP 506, 74105 Annemasse Cedex, France Nationality -France	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : B65D 65/40	
(54) Invention Title: Debondable lamination structure for retort application	
(57) Abstract The present invention is related to a laminate (1) for packaging applications, comprising a substrate layer (2) and an adhesive layer (5) present on a surface of said substrate layer (2), characterized in that said adhesive layer (5) is made from a one-component adhesive composition with an adhesive compound comprising a branched backbone structure and isocyanate moieties as functional groups. The present invention is furthermore related to an article, preferably, a flexible packing, comprising said laminate (1), and to a method for preparing said one-component adhesive composition.	

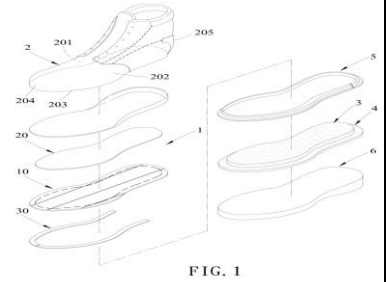




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(11) Patent registration No and date , (21) Appl. No. BD-P-2025-274 (22) Filed: 25/09/2025	
(23) Priority Data: China, Number :2025110167201, Date : 23-07-2025.	
(71) Applicant: GOLDEN CHANG INDUSTRIAL CO., LTD. of No. 15, Wanquan St., Sanchong Dist., New Taipei City, Postal code: 241051, Chinese Taipei, Nationality -Taiwan	
(72) Inventors: (1) Shu-Jen HO of No. 15, Wanquan St., Sanchong Dist., New Taipei City, Chinese Taipei Postal code: 241051, Taiwan Nationality -Taiwan	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : F16C 33/14	
(54) Invention Title: MIDSOLE AND METHOD FOR MANUFACTURING A SHOE	
(57) Abstract A midsole includes a bottom plate (10), an insole (20), and welts (30). The bottom plate (10) has top and bottom surfaces (11, 12) and a peripheral surface (13). The top and bottom surfaces (11, 12) have top and bottom notation sets (14, 15), respectively. The insole (20) is positioned and attached to the top surface (11) through the top notation set (14). An annular contour of the insole (20) and the peripheral surface (13) of the bottom plate (10) have a gap therebetween. The welts (30) are positioned and attached to the bottom surface (12) through the bottom notation set (15). Each welt (30) has an outer curved surface (31), an inner curved surface (32), and a width (w) measured from the outer curved surface (31) to the inner curved surface (32). A method for manufacturing a shoe is also provided.	





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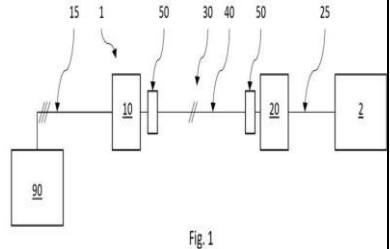
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(11) Patent registration No and date , (21) Appl. No. BD-P-2026-161 (22) Filed: 26/04/2026	
(23) Priority Data: Australia, Number :2025901453, Date : 24-04-2025. and Australia, Number :2025905033, Date : 23-10-2025.	
(71) Applicant: Saccharide Therapeutics Pty Ltd. of Level 17, HWT Tower, 40 City Road, Southbank VIC 3006, Nationality -Australia	
(72) Inventors: (1) Louis Schofield of , United States of America Nationality -United States of America, (2) Christopher Boyer of , United States of America Nationality -United States of America	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : A61K 31/70	
(54) Invention Title: Compounds and methods for treating disease	
(57) Abstract The claimed invention relates to glycans, methods for their synthesis, compositions comprising the same, and uses of and methods using glycans and related compositions. The claimed invention also relates to methods of treating or preventing diseases caused by microorganisms, in particular those resulting from protozoan infections, and/or <i>Mycobacterium</i> sp. infections, and/or fungal infections, and/or helminth infections, as well as compounds and compositions useful therefor.	



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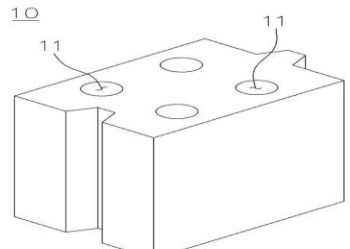
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(11) Patent registration No and date , (21) Appl. No. BD-P-2026-210 (22) Filed: 04/06/2026	
(23) Priority Data: Germany, Number :1020251224404, Date : 06-06-2025.	
(71) Applicant: SMS group S.p.A. of Via Udine, 103, 33017 - Tarcento (Udine), Nationality -Italy	
(72) Inventors: (1) Volker PAERSCH of Im Felde 30, 21398 Neetze, Germany Nationality -Germany	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : F02P 3/01	
(54) Invention Title: Apparatus for supplying electrical energy to an electrical load, electric furnace, hydrogen generation apparatus, and production plant	
(57) Abstract The invention relates to an apparatus (1) for supplying electrical energy to an electrical load (2), wherein the apparatus (1) comprises a rectifier circuit (10) that can be connected to an electrical power supply network (90) in an at least indirectly electrically conductive manner by means of an input power supply circuit (15); wherein the apparatus (1) comprises a converter circuit (20) which can be connected to the electrical load (2) in an at least indirectly electrically conductive manner by means of an output supply circuit (25); wherein the apparatus (1) comprises a DC intermediate circuit (30) that electrically connects the rectifier circuit (10) and the converter circuit (20) to one another; wherein the input power supply circuit (15) and/or the output power supply circuit (25) and/or the DC intermediate circuit (30) comprises at least one superconducting section (40); and wherein the apparatus (1) comprises a transition device (50) that electrically connects the superconducting section (40) to the rectifier circuit (10) and/or to the converter circuit (20).	
	



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(11) Patent registration No and date , (21) Appl. No. BD-P-2026-219 (22) Filed: 16/06/2026	
(23) Priority Data: Republic of Korea, Number :1020250092039, Date : 09-07-2025.	
(71) Applicant: YUJOO CO., LTD. of 2F, 33, Chaseong-ro 190beon-gil, Gijang-eup, Gijang-gun, Busan 46073, Nationality -Republic of Korea	
(72) Inventors: (1) KIM, Sangki of 106-2103, 70, Baegyongsan-ro Busanjin-gu Busan 47148, Republic of Korea Nationality -Republic of Korea	
(74) Agent : Bepary & Bepary IP Law Firm, 68-69 Concept Tower Suite # 5-B (4th Floor), 1205, Dhaka, Bangladesh	
(51) INT. CL. : E04B 1/35	
(54) Invention Title: CONCRETE BLOCK STRUCTURE AND CONSTRUCTION METHOD THEREOF	
(57) Abstract ABSTRACT Proposed are a novel construction method capable of significantly improving stability of a concrete block structure, and a novel concrete block structure constructed thereby, wherein in the method, a borehole is formed below a concrete column hole of a concrete block, and a composite concrete column is formed such that a precast concrete pile and a cast-in-place concrete column are integrally formed via a reinforcing bar assembly for a column along the concrete column hole and the borehole.	 FIG. 1



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(23) Priority Data: N/A	
(71) Applicant: Dr. Md. Amdadul Haque of Professor, Department of Food Engineering, Gazipur Agricultural University, Gazipur, 1706, Bangladesh	
(72) Inventors: (0) Dr. Md. Amdadul Haque of Professor, Department of Food Engineering, Gazipur Agricultural University, Gazipur, 1706, Bangladesh	
(74) Agent : Md Amdadul , Professor, Dept. of Food Engineering, Gazipur Agricultural University, 1706, Gazipur, Bangladesh	
(51) INT. CL. : A23J 1/14	
(54) Invention Title: Preparation of Protein Bar using Germinated Jackfruit Seed Protein Isolate	
(57) Abstract The innovative chemical process of isolating protein from germinated jackfruit seed and use in the protein food formulation able to meet protein deficiencies, particularly in regions like Bangladesh. The process specifically tested germination of jackfruit seed and using the seed protein in a protein bar preparation. Germination increased the protein content in the jackfruit seeds by 3.17% which elevated the value to 15.31% in Durosha variety. The germinated jackfruit seed flour (Durosha) was undergone alkali extraction followed by isoelectric precipitation. The addition of protein isolate as high as 8% in the protein bar formulation showed acceptable sensory properties. This formulation retained the microbial acceptability until 60 days in low-density polyethylene packages at room temperature ($25 \pm 2^{\circ}\text{C}$). A commercial-scale production design and development is possible utilizing the invented technology as a prototype, where jackfruit seed as a source of protein.	Figure 1: Successive steps for preparation of GJSPL.



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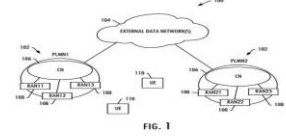
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(23) Priority Data: European Patent Office (EPO), Number :251919106, Date : 25-07-2025.
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(51) INT. CL. : D01F 9/26
(54) Invention Title: Process for Manufacturing BHET from a Polyester Feedstock
(57) Abstract The present invention relates to a process for manufacturing BHET (bis(2-hydroxyethyl) benzene-1,4-dicarboxylate) from a polyester feedstock comprising PET (polyethylene terephthalate), comprising the steps of (1) providing reaction mixture 1 comprising polyester feedstock comprising PET, potassium glycoxide (potassium 2-hydroxyethoxide), and monoethylene glycol (ethan-1,2-diol); (2) at least partially depolymerizing PET components of the polyester feedstock in reaction mixture 1, thus forming reaction mixture 2 comprising monoethylene glycol and BHET; and (3) contacting reaction mixture 2 with an amount of activated carbon. The present invention, further, relates to a process wherein BHET is at least partially isolated from reaction mixture 2 and repolymerized to PET. The process of the present invention yields product materials with a particularly low level of yellow discoloration.



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(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : H04W 74/08	
(54) Invention Title: REPURPOSING OF MESSAGING AND CODING SCHEME (MCS) INDICATION FOR CONTENTION RESOLUTION MESSAGE REPETITIONS	
(57) Abstract A method is provided that includes receiving a downlink control information (DCI) scheduling a contention resolution message. The DCI includes a modulation and coding scheme (MCS) field that contains a most significant bit (MSB) indicating repetitions are activated for the content resolution message, and non-MSB bits indicating an MCS index value that maps to an MCS table. The method includes monitoring for the contention resolution message and repetitions of the contention resolution message based on the DCI, and detecting a failure to successfully decode the contention resolution message from the contention resolution message and the repetitions. The method includes receiving a second DCI scheduling retransmission of the contention resolution message, and monitoring for the retransmission based on the second DCI. In the second DCI, all of the MSB and non-MSB bits of the MCS field indicate an MCS index value that maps to the MCS table.	
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(71) Applicant: Nokia Technologies Oy of Karakaari 7, Espoo 02610, Nationality -Finland	
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(51) INT. CL. : H04W 74/08	
(54) Invention Title: REPURPOSING OF MESSAGING AND CODING SCHEME (MCS) INDICATION FOR CONTENTION RESOLUTION MESSAGE REPETITIONS	
(57) Abstract A method is provided that includes receiving a downlink control information (DCI) scheduling a contention resolution message. The DCI includes a modulation and coding scheme (MCS) field that contains a most significant bit (MSB) and non-MSB bits. The MSB indicates repetitions are activated for the content resolution message. The non-MSB bits indicate one of a number of MCS index values that map to an MCS table, and the number of MCS index values include one or more reserved MCS index values. The method also includes monitoring for the contention resolution message and repetitions of the contention resolution message based on the DCI.	FIG. 1
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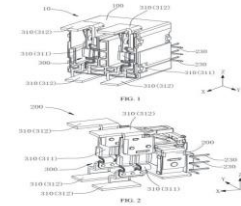
(11) Patent registration No and date , (21) Appl. No. BD-P-2026-291 (22) Filed: 12/08/2026	
(23) Priority Data: China, Number :2025111276193, Date : 13-08-2025.	
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(74) Agent : Alshim & Partners, 5/1, Asadullah House, Block: E, Lalmatia, 1207, Dhaka, Bangladesh	
(51) INT. CL. : F27D 3/06	
(54) Invention Title: CHARGING AND DISCHARGING CONTROL METHOD AND APPARATUS, AND EXPANDABLE POWER SUPPLY	
(57) Abstract The present disclosure relates to the technical field of batteries, and discloses a charging and discharging control method, applied to an expandable power supply, the expandable power supply having a main battery and an expansion battery connected in parallel; where the method includes: detecting a discharging condition between the main battery and the expansion battery in a battery pack, where the discharging condition is configured to characterize the number of times the main battery charges the expansion battery, and the number of times the expansion battery charges the main battery; determining a replacement priority between the main battery and the expansion battery according to the discharging condition; determining a charging and discharging control logic for the main battery and the expansion battery according to the replacement priority; and performing charging and discharging control over the main battery and the expansion battery according to the charging and discharging control logic.	<pre>graph TD S101[Detect a discharging condition between a main battery and an expansion battery in a battery pack] --> S102[Determine a replacement priority between the main battery and the expansion battery according to the discharging condition] S102 --> S103[Determine a charging and discharging control logic for the main battery and the expansion battery according to the replacement priority] S103 --> S104[Perform charging and discharging control over the main battery and the expansion battery according to the charging and discharging control logic]</pre>



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(51) INT. CL. : G01R 11/16	
(54) Invention Title: MOVABLE CONTACT MEMBER FOR RELAY AND RELAY	
(57) Abstract The present application relates to a movable contact member for a relay and a relay. The relay includes a magnetic circuit portion, a contact portion, and a magnetic conductive block. The magnetic circuit portion is configured to generate an electromagnetic force. The contact portion includes a pusher, a stationary contact member having a stationary contact, and a movable contact member having a movable contact. The movable contact member includes a movable spring, a pressure spring, and a magnetic conductive component. The movable spring, an end of the pressure spring, and at least a part of the magnetic conductive component are arranged in a stacked manner and fixedly connected to each other. The movable contact is configured to contact the stationary contact to form a conductive circuit. The magnetic conductive component is configured to form a magnetic circuit with the magnetic conductive block when the conductive circuit is formed. The magnetic circuit allows the magnetic conductive component and the magnetic conductive block to attract each other. Therefore, when a large short-circuit current is generated in the load circuit, causing a tendency for both ends of the movable spring to bend and deform, the mutual attraction between the magnetic conductive component and the magnetic conductive block can prevent the movable spring from bending and deforming, thereby avoiding a sudden change of the contact pressure or even disconnection between the movable contact and the stationary contact, and effectively ensuring the stability of the closed state of the relay.	

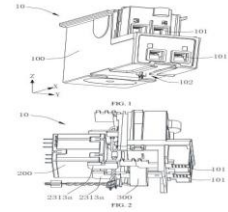




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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China	
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(51) INT. CL. : G01R 11/16	
(54) Invention Title: RELAY AND ELECTRICITY METER	
(57) Abstract The present application relates to a relay and an electricity meter. The electricity meter includes the relay. The relay includes a magnetic circuit portion, a contact portion, and a magnetic isolation plate. The magnetic circuit portion is configured to generate an electromagnetic force. The contact portion is disposed on a side of the magnetic circuit portion in a first direction. The contact portion is configured to connect to a load circuit, and the contact portion has a movable contact member. The movable contact member is movable under action of the electromagnetic force to control connection or disconnection of the load circuit. The magnetic isolation plate is disposed on a side of the magnetic circuit portion adjacent to a meter housing of the electricity meter, and configured to shield the relay from magnetic field interference outside the meter housing of the electricity meter. In this way, by mounting only one magnetic isolation plate on the side of the magnetic circuit portion adjacent to the meter housing of the electricity meter, electromagnetic interference from outside the electricity meter can be shielded. Since the other sides of the magnetic circuit portion are farther away from the meter housing of the electricity meter, no magnetic isolation plate is needed. Therefore, the structure for shielding against external electromagnetic interference in the relay is simple, and while effectively shielding against the external electromagnetic interference, the manufacturing cost of the relay can be also reduced.	





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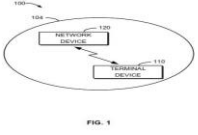
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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No.93, Yinong Road, Haicang District, Xiamen, Fujian Province, 361027, Nationality -China	
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(51) INT. CL. : G01R 11/16	
(54) Invention Title: RELAY AND ELECTRICITY METER	
(57) Abstract The present application relates to a relay and an electricity meter. The electricity meter includes the relay. The relay includes a magnetic circuit portion and a contact portion. The magnetic circuit portion includes a coil bobbin and a coil wound around the coil bobbin. A central axis of the coil bobbin extends in a first direction. The contact portion is disposed on a side of the magnetic circuit portion in a second direction perpendicular to the first direction. The contact portion includes a contact assembly. The contact assembly includes a movable contact member provided with a movable contact and a stationary contact member provided with a stationary contact. The movable contact member is configured to swing in the first direction under the action of the magnetic circuit portion, so that the movable contact is in contact with or separates from the stationary contact. This arrangement prevents the magnetic circuit portion from occupying the swing space of the movable contact member, thereby allowing the movable contact member to have large swing space to swing. Thus, the stationary contact and the movable contact can maintain a sufficient distance in the separated state, thereby providing a large electrical clearance between the stationary contact and the movable contact, and meeting the requirements of high-current application scenarios.	



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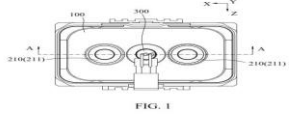
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(71) Applicant: Nokia Technologies Oy of Karakaari 7, Espoo 02610, Nationality -Finland	
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(51) INT. CL. : G07B 11/11	
(54) Invention Title: UE ASSISTANCE INFORMATION ON PREFERRED GAP CANCELLATION RATIO	
(57) Abstract Example embodiments of the present disclosure are directed to user equipment (UE) Assistance information (UAI) on preferred gap cancellation ratio. A method comprises receiving configuration information associated with a measurement gap; based on receiving the configuration information, or upon a preference for gap occasion cancellation ratio associated with the measurement gap becoming available, if the preference has not yet been transmitted in any UAI message, initiating the transmission of the UAI message indicating the preference.	 FIG. 1



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(71) Applicant: Xiamen Hongfa Electric Power Controls Co., Ltd. of No. 93 Yinong Road, Haicang District, Xiamen, Fujian 361027, Nationality -China	
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(74) Agent : A.B.M. Sohailud Doulah, IP Attorney, House No. 153/2, Road No. 2/2, Block A, Section 12, Mirpur, , 1216, Dhaka, Bangladesh	
(51) INT. CL. : F16C 43/00	
(54) Invention Title: RELAY	
(57) Abstract The present application discloses a relay. The relay includes a contact cavity body, a connected assembly, and an annular component. The annular component includes a first connecting ring and a second connecting ring, the first connecting ring includes an inner ring portion and an outer ring portion, the outer ring portion surrounds the outer periphery of the inner ring portion, the inner ring portion protrudes from the inner ring surface of the second connecting ring, the outer ring portion protrudes from the outer ring surface of the second connecting ring, one of the connected member and the contact cavity body is connected to the inner ring portion and the outer ring portion, the second connecting ring is connected to the first connecting ring at one axial end, and the other of the connected member and the contact cavity body is connected to the second connecting ring at the other axial end. (FIG. 3)	 FIG. 1