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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২. ৫৬৩ তারিখঃ ১৮/০৫/২০২৬ খ্রি.

বিষয়ঃ মঞ্জুরকৃত পেটেন্ট আবেদনসমূহ প্রকাশ

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, অধিদপ্তরে দাখিলকৃত পেটেন্ট আবেদনসমূহের মধ্যে ২৭ (সাতাশ) টি পেটেন্ট (২০২২ সালের পেটেন্ট আবেদন নং-৭৬, ১১৭, ১২২, ১৮৭, ১৯৫, ১৯৯, ৩০৫, ৩৩৩; ২০২৩ সালের পেটেন্ট আবেদন নং-৭, ৩১, ৩৭, ৪৬, ৫২, ৭৭, ১৮৫, ২০৪, ২১৫, ২১৬, ২৪২, ২৪৫, ২৬৭, ২৬৮, ৩৭৬; ২০২৪ সালের পেটেন্ট আবেদন নং-২১১; ২০২৫ সালের পেটেন্ট আবেদন নং- ১১৬, ২১১, ২৩৩) মঞ্জুর করা হয়েছে। মঞ্জুরকৃত উক্ত পেটেন্ট আবেদনসমূহ বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ২৪(২)(ক) মোতাবেক প্রকাশ করা হলো।

সংযুক্তিঃ ২৭ (সাতাশ) পাতা।

১৮/০৫/২৬
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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Publication of Granted Patent
No.: 14 & Date: May 18, 2026

(11) Patent registration No and date 1007100, 19/04/2026
(21) Appl. No. BD-P-2022-76
(22) Filed: 02/03/2022
(23) Priority Data:
European Patent Office (EPO), Number :211602982, Date : 02-03-2021.

(71) Applicant: CHT Germany GmbH of Bismarckstr. 102, 72072 Tübingen, Nationality -Germany
(72) Inventors: (1) Martin GRUBER of c/o CHT Germany GmbH, Bismarckstr. 102, 72072 Tübingen, Germany Nationality -Germany, (2) Thomas APLAS of c/o CHT Germany GmbH, Bismarckstr. 102, 72072 Tübingen, Germany Nationality -Germany
(74) Agent : Munshi & Associate, {app_representative_address}, Bangladesh

(51) INT. CL. : C11D 3/39

(54) Invention Title: Combined bleach treatment for textiles

(57) Abstract
The present invention relates to a method for brightening a dyed textile by at least partial destruction of a dye, characterised in that the method comprises steps (A) and (B) in that order and step (A) comprises contacting the dyed textile with a composition comprising a peroxocarboxylic acid or a salt thereof and step (B) comprises contacting the textile obtained from step (A) with a composition comprising a peroxidase, a mediator and a source of hydrogen peroxide. The invention further relates to a textile obtainable by this method.

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(11) Patent registration No and date 1007107, 14/05/2026
(21) Appl. No. BD-P-2022-117
(22) Filed: 24/03/2022

(23) Priority Data:
European Patent Office (EPO), Number :211663414, Date : 31-03-2021.

(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland

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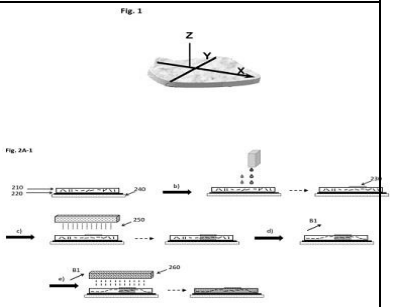
(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : B05D 3/00

(54) Invention Title: METHODS FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES AND EXHIBITING ONE OR MORE INDICIA

(57) Abstract

The invention relates to the field of the protection of security documents such as for example banknotes and identity documents against counterfeit and illegal reproduction. In particular, the present invention provides methods for producing optical effect layers (OELs) exhibiting one or more indicia (x30) on a substrate (x20), said method comprising a step of exposing a coating layer (x10) comprising non-spherical magnetic or magnetizable pigment particles to a magnetic field of a magnetic-field generating device so as to orient at least a part of the magnetic or magnetizable pigment particles; a step of applying a top coating composition on top of the coating layer (x10) and in the form of one or more indicia (x30), and a step of at least partially curing the coating layer (x10) and the one or more indicia (x30) with a curing unit (x50).



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(11) Patent registration No and date 1007104, 14/05/2026
(21) Appl. No. BD-P-2022-122
(22) Filed: 28/03/2022

(23) Priority Data:
European Patent Office (EPO), Number :211667126, Date : 01-04-2021.

(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland

(72) Inventors: (0) GARNIER, Jean of Route de Riau Graubon 10, 1082 Corcelles-le-Jorat, Switzerland Nationality -Switzerland, (1) VEYA, Patrick of Ruelle du Bout-du-Coin 6a, 1123 Aclens, Switzerland Nationality -Switzerland, (2) HOFSTETTER, Pierre-Yves of Rue du Midi 9, 1040 Villars-le-Terroir, Switzerland Nationality -Switzerland

(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : B64G 1/54

(54) Invention Title: CATIONIC UV-LED RADIATION CURABLE PROTECTIVE VARNISHES FOR SECURITY DOCUMENTS

(57) Abstract

The present invention relates to the technical field of varnishes for protecting security documents, such as banknotes, against premature detrimental influence of soil and/or moisture upon use and time. In particular, the present invention provides a cationic UV-LED radiation curable protective varnish comprising: a) from about 65 wt-% to about 90 wt-% of either a cycloaliphatic epoxide, or a mixture of a cycloaliphatic epoxide and one or more cationically curable monomers other than the cycloaliphatic epoxide; b) from about 1 wt-% to about 10 wt-% of a diaryl iodonium salt; c) from about 0.01 wt-% to about 5 wt-% of a non-ionic surfactant; and d) a photosensitizer of general formula (I) (I), wherein the weight percents are based on the total weight of the cationic UV-LED curable protective varnish, and a process for coating a security document with said cationic UV-LED radiation curable protective varnish.

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(11) Patent registration No and date 1007099, 19/04/2026
(21) Appl. No. BD-P-2022-187
(22) Filed: 29/05/2022

(23) Priority Data:
United States of America, Number :63193747, Date : 27-05-2021.

(71) Applicant: Therap Services, LLC of 333 Kennedy Dr, Torrington, CT 06790, Nationality -United States of America

(72) Inventors: (1) Md. Shadman Sakib Chowdhury of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (2) Rimi Reza of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (3) David L. Turock of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (4) Richard Allen Robbins of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (5) James M. Kelly of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (6) Warren S. Gifford of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (7) Khandker Md Nurul Afsar of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (8) M. Tanjid Hasan Tonmoy of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (9) Md Rayed Bin Wahed of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America, (10) Md. Asif Ali of Therap Services, LLC, 333 Kennedy Dr, Torrington, CT 06790, United States of America Nationality -United States of America

(74) Agent : ISLAM & CO. , {app_representative_address}, Bangladesh

(51) INT. CL. : B60T 17/22

(54) Invention Title: Device and System for Monitoring the Real-time Status of Internet of Things (IoT) Biometric Acquisition Systems

(57) Abstract
Disclosed are Internet-of-Things (IoT) methods, systems, and devices for determining that health monitoring automated biometric data acquisition devices, the networks to which they are connected, and other connected electrical devices are correctly powered, using normal power levels, able to communicate their results over various communications networks, and can notify people and/or systems of a failure of any of these conditions either in real time or on a deferred time basis. Communications to users regarding such failures are controlled using authorization rules, which may be HIPAA-compliant.

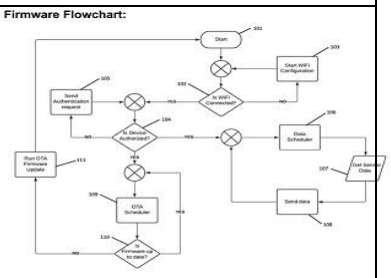

FIG. 1

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(11) Patent registration No and date 1007103, 14/05/2026
(21) Appl. No. BD-P-2022-195
(22) Filed: 02/06/2022
(23) Priority Data:
European Patent Office (EPO), Number :211781281, Date : 08-06-2021.

(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly , Nationality -Switzerland
(72) Inventors: (0) GARNIER, Jean of Route de Riau Graubon 10, 1082 Corcelles-le-Jorat, Switzerland Nationality -Switzerland, (1) VEYA, Patrick of Ruelle du Bout-du-Coin 6a, 1123 Aclens, Switzerland Nationality -Switzerland, (2) HOFSTETTER, Pierre-Yves of Rue du Midi 9, 1040 Villars-le-Terroir, Switzerland Nationality -Switzerland
(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh

(51) INT. CL. : B64G 11/14

(54) Invention Title: HYBRID UV-LED RADIATION CURABLE PROTECTIVE VARNISHES FOR SECURITY DOCUMENTS

(57) Abstract
The present invention relates to the technical field of varnishes for protecting security documents, such as banknotes, against premature detrimental influence of soil and/or moisture upon use and time. In particular, the present invention provides a hybrid UV-LED radiation curable protective varnish comprising: a) from about 60 wt-% to about 85 wt-% of either a cycloaliphatic epoxide, or a mixture of a cycloaliphatic epoxide and one or more cationically curable monomers other than the cycloaliphatic epoxide; b) from about 3 wt-% to about 15 wt-% of one or more radically curable monomers and/or oligomers; c) from about 1 wt-% to about 6 wt-% of a diaryl iodonium salt; d) from about 0.5 wt-% to about 3 wt-% of a free radical photoinitiator selected from the group consisting of alpha-hydroxyketones, alpha-alkoxyketones, benzyl diketals, benzoin ethers, phosphine oxides, phenylglyoxylates, and mixtures thereof; e) from about 0.01 wt-% to about 5 wt-% of a non-ionic surfactant; and f) a photosensitizer of general formula (I) (I) wherein the weight percents are based on the total weight of the hybrid UV-LED radiation curable protective varnish.

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(11) Patent registration No and date 1007094, 09/03/2026
(21) Appl. No. BD-P-2022-199
(22) Filed: 05/06/2022

(23) Priority Data:
European Patent Office (EPO), Number :211789953, Date : 11-06-2021.

(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly , Nationality -Switzerland

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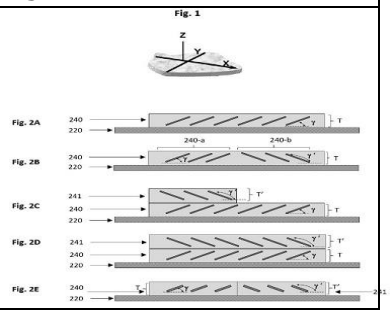
(74) Agent : ADVANCED IP LAW FIRM, {app_representative_address}, Bangladesh

(51) INT. CL. : B05D 3/00

(54) Invention Title: OPTICAL EFFECT LAYERS COMPRISING MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES AND METHODS FOR PRODUCING SAID OPTICAL EFFECT LAYERS

(57) Abstract
The invention relates to the field of the protection of security documents such as for example banknotes and identity documents against counterfeit and illegal reproduction. In particular, the present invention provides security documents and decorative articles comprising one or more optical effect layers (OELs) and methods for producing said OELs, said OELs comprising magnetically oriented platelet-shaped magnetic or magnetizable pigment particles in an at least partially cured coating layer (x40)



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(11) Patent registration No and date 1007095, 19/04/2026
(21) Appl. No. BD-P-2022-305
(22) Filed: 13/09/2022

(23) Priority Data:
United States of America, Number :63248791, Date : 27-09-2021.

(71) Applicant: Telefonaktiebolaget LM Ericsson (publ) of SE-164 83 Stockholm, Nationality -Sweden

(72) Inventors: (0) Yezi Huang of Blockhusvägen 27, SE-187 46 TÄBY, Sweden Nationality -China, (1) Chenguang Lu of Betesvägen 13, SE-191 63 SOLLENTUNA, Sweden Nationality -China, (2) Miguel Berg of Granvägen 18 B, SE-191 41 SOLLENTUNA, Sweden Nationality -Sweden, (3) Björn Pohlman of Axvägen 49, SE-175 51 JÄRFÄLLA, Sweden Nationality -Sweden

(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : G06N 3/0495

(54) Invention Title: BEAMSPACE COMPRESSION IN AN OPEN-RADIO ACCESS NETWORK.

(57) Abstract

A first network entity of a communications network can generate compressed beamforming weights ("BFWs") based on a transformation configuration. The transformation configuration can be based on one or more parameters of an antenna array associated with a second network entity of the communications network. The one or more parameters can include a parameter that is separate from a total number of antenna ports in the antenna array. The first network entity can further transmit an indication of the compressed BFWs to the second network entity via a fronthaul between the first network entity and the second network entity.

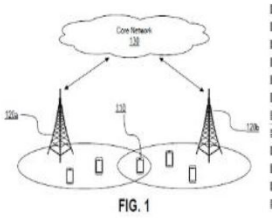

FIG. 1

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(11) Patent registration No and date 1007105, 14/05/2026
(21) Appl. No. BD-P-2022-333
(22) Filed: 12/10/2022

(23) Priority Data:
United States of America, Number :17507516, Date : 21-10-2021.

(71) Applicant: VIAVI Solutions Inc. of 1445 South Spectrum Blvd, Suite 102, Chandler, Arizona 85286, Nationality - United States of America

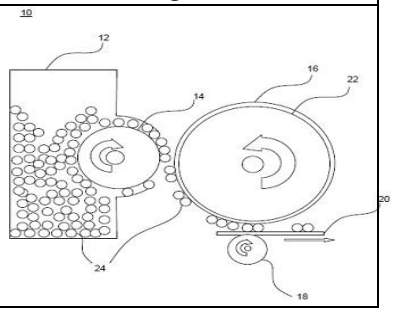
(72) Inventors: (1) DELST, Cornelis Jan of 700 Iron Springs Road, Fairfax, CA 94930, United States of America Nationality -United States of America, (2) RAKSHA, Vladimir P. of 1692 Hopper Avenue, Santa Rosa, CA 95403, United States of America Nationality -United States of America, (3) ARGOITIA, Alberto of 1628 Tahoe Drive, Santa Rosa, CA 95405, United States of America Nationality -United States of America, (4) KOHLMANN, Paul Thomas of 9616 Berkshire Way, Windsor, CA 95492, United States of America Nationality -United States of America

(74) Agent : MUNSHI & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B22C 7/04

(54) Invention Title: Printing Machine Including a Printing Plate Having a Fixed Pattern for Receiving a Toner.

(57) Abstract
A printing machine including a printing plate on a surface of a rotating cylinder, in which the printing plate has a fixed pattern for receiving a toner; a vessel containing the toner, which includes a pigment and a thermoplastic binder, in which the fixed pattern is a permanent pattern in a form of selected portions of an imageis disclosed.A plate for use in the printing machine is also disclosed.A printing system is also disclosed.



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Publication of Granted Patent
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(22) Filed: 15/11/2022

(23) Priority Data:
Russian Federation, Number :2021133254, Date : 15-11-2021.

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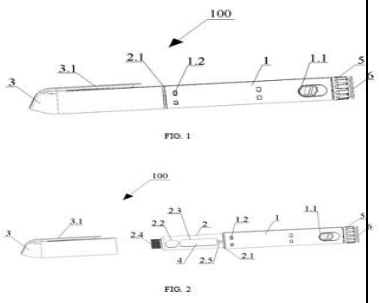
(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh

(51) INT. CL. : B65G 51/30

(54) Invention Title: DRUG DELIVERY DEVICE AND USE OF THE DRUG DELIVERY DEVICE FOR INJECTING A DRUG INTO MAMMALS.

(57) Abstract

The present invention relates to a drug delivery device. The drug delivery device comprises: an outer housing; a drug reservoir installed in the outer housing; an actuating mechanism designed to generate an actuating force; a dose-setting mechanism installed at least partly in the outer housing, wherein the dose-setting mechanism is capable of setting a drug dose and functionally connected to the actuating mechanism; an inner housing installed in the outer housing and functionally connected to the dose-setting mechanism; a rod movably installed at least partly in the inner housing so as to enable the drug to be discharged from the reservoir; a driving part provided with radial teeth, wherein the driving part is intermeshed in the outer housing with the inner housing and threadably engaged with rod such that the actuating force is transferred to the rod in order to move the latter depending on the set drug dose; and a cylindrical part provided with at least one resilient element having a paw, wherein the cylindrical part is secured in the outer housing so as to enable the pawl to jump at least over one of the radial teeth of the driving part when rotating the driving part.



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(11) Patent registration No and date 1007084, 19/02/2026 **(21) Appl. No.** BD-P-2023-7 **(22) Filed:** 10/01/2023
(23) Priority Data: India, Number :202221053991, Date : 21-09-2022.
(71) Applicant: CHAUDHRY, Suunil Sudhakar of c/o Suboneyo Chemicals & Pharmaceuticals P Limited, A, 86/89 MIDC, Industrial Area, Jalgaon 425003, Maharashtra, Nationality -India
(72) Inventors: (0) CHAUDHRY, Suunil Sudhakar of c/o Suboneyo Chemicals & Pharmaceuticals P Limited, A, 86/89 MIDC, Industrial Area, Jalgaon 425003, Maharashtra, India Nationality -India, (1) CHAUDHRY, Sussmit Sunil of Georgia Institute of Technology, North Ave NW, Atlanta, GA 30332, United States of America Nationality -India
(74) Agent : Advanced IP Law Firm, {app_representative_address}, Bangladesh
(51) INT. CL. : A61P 43/00
(54) Invention Title: A NUTRIENT COMPOSITION FOR INCREASING PLANT GROWTH AND CROP YIELD AND PROCESS FOR PREPARATION THEREOF
(57) Abstract Disclosed herein is nutrient composition comprising biocomplexes selected from Phosphopolyol (PP), Phosphosaccharide (PS) and Phosphopolyolphosphosaccharide (PPPS) or combination thereof for increasing plant growth and boosting crop yield specifically by improving photosynthesis process in plants/crops and reducing the use of chemical fertilizers. The invention also disclosed herein is process for preparation of said nutrient composition.

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(11) Patent registration No and date 1007113, 14/05/2026
(21) Appl. No. BD-P-2023-31
(22) Filed: 26/01/2023

(23) Priority Data:
Switzerland, Number :221546476, Date : 01-02-2022.

(71) Applicant: Energie-Innovation AG of 158, CH – 8808 Pfaffikon, Switzerland. , Nationality -Switzerland

(72) Inventors: (1) Franz BERGER of 38, CH - 8053 Zürich, Switzerland, Switzerland Nationality -Switzerland

(74) Agent : Md.Masum Rana Advocate Rana & Associates, {app_representative_address}, Bangladesh

(51) INT. CL. : F16H 61/423

(54) Invention Title: "Negative pressure motor"

(57) Abstract

An arrangement (100) comprises a reciprocating engine (110) adapted for combustion-free operation and a negative pressure chamber (130) in which a reduced air pressure can be generated relative to the atmosphere (A) surrounding the reciprocating engine (110), wherein: a) the reciprocating engine (110) has at least one cylinder (111) which is closed by a cylinder head (118) and in which a piston (112) can be moved, and the piston (112) being coupled to a crankshaft (116) of the reciprocating engine (110) via a connecting rod (115) on the side facing away from the cylinder head (118), the connecting rod (115) and the crankshaft (116) being integrated in a crankcase (117a) of the reciprocating engine (110); b) the at least one cylinder (111) on the cylinder head (118) has at least one inlet valve (119a) and at least one outlet valve (119b), the vacuum chamber (130) being connectable in a fluid-conducting manner to a working chamber (113) of the at least one cylinder (111) via the outlet valve (119b), in order to generate a negative pressure in the working chamber (113), and the working chamber (113) being connectable in a fluid-conducting manner to the atmosphere (A) surrounding the reciprocating engine (110) via the inlet valve (119a) in order to generate ambient pressure in the working chamber (113), c) wherein a valve control (120) is provided which controls the intake valve (119a) and the exhaust valve (119b) in operation such that the piston (112) in the at least one cylinder (111) is moved back and forth by alternately applying ambient pressure and negative pressure; d) and the reciprocating engine (110) is designed in such a way that during operation there is always a substantially constant pressure, in particular an atmospheric pressure (A) surrounding the reciprocating engine (110), in a region (114) of the piston facing away from the cylinder head (118).

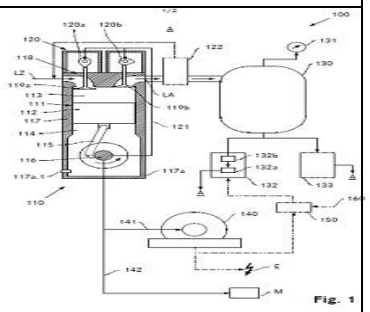

Fig. 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(11) Patent registration No and date 1007102, 14/05/2026
(21) Appl. No. BD-P-2023-37
(22) Filed: 31/01/2023
(23) Priority Data:
N/A
(71) Applicant:
(72) Inventors:
(74) Agent : Munshi & Associates, {app_representative_address}, Bangladesh
(51) INT. CL. : F24T 10/00
(54) Invention Title: LATRINE PAN AND COLLECTOR ASSEMBLY, LATRINE PAN ASSEMBLY, DIVERTER, AND COLLECTOR”

(57) Abstract
A latrine pan and collector assembly configured to direct liquid waste and solid waste to separate liquid and solid waste streams, including a latrine pan; a diverter; and a collector, wherein the latrine pan includes an outlet, the latrine pan is at least partially positioned at an interior of the collector, the collector including a liquids outlet and a solids outlet, the diverter includes a plate configured to enclose the latrine pan outlet in a diverter closed position, and the diverter is configured to be maintained in the closed position when a urine stream is directed to a latrine pan interior, such that liquid waste is directed to the collector liquids outlet

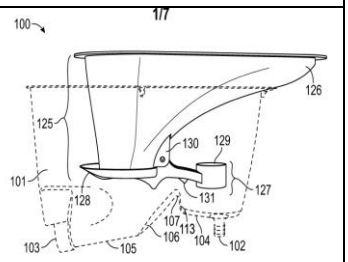

FIG. 1A

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(11) Patent registration No and date 1007096, 19/04/2026
(21) Appl. No. BD-P-2023-46
(22) Filed: 09/02/2023
(23) Priority Data:
India, Number :202241008234, Date : 16-02-2022.
(71) Applicant:
(72) Inventors:
(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh
(51) INT. CL. : B60R 16/03
(54) Invention Title: A System for Controlling One or More Electrical Loads of a Vehicle and Method Thereof

(57) Abstract
The present invention relates to a system (200) for controlling one or more electrical loads of a vehicle (100). The system (200) comprises an Integrated Starter Generator (ISG) machine (226), an engine (136) operatively connected with the ISG machine (226) and a first control unit (164) operatively connected to one or more electrical loads and the ISG machine (226). The first control unit (164) determine whether the plurality of vehicle parameters meet a first set of predetermined conditions for idle stop, or the plurality of vehicle parameters meet a second set of predetermined conditions for idle start, operate the ISG machine (226) to stop the engine (136) in idle stop condition or operate the ISG machine (226) to restart the engine (136) in idle start condition, and deactivate the one or more electrical loads in idle stop condition or activate the one or more electrical loads in idle start condition.

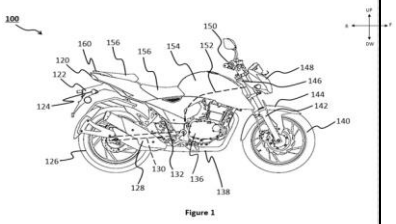

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(21) Appl. No. BD-P-2023-52
(22) Filed: 15/02/2023

(23) Priority Data:
N/A

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(51) INT. CL. : C09D 5/02

(54) Invention Title: process for the preparation of environment friendly anti-viral and anti-bacterial paints using specialized emulsion by replacing silver ion additive

(57) Abstract
This invention discloses a process for the preparation of anti-viral and anti-bacterial paints using specially designed and in-house developed latex polymer (emulsion) which has been replacing environmental hazard silver ion additive from the formulation of the paint. This environment-friendly paint is designed to inhibit the growth and spread of viruses and bacteria on painted surfaces for long time. Silver ion additives, generally used for antimicrobial activity in paints formulation, are not biodegradable and can accumulate in the environment over time which is toxic to aquatic organisms and human health. Specialized Emulsion replaces the Silver ion additive which shows excellent anti-microbial activity and diminishes the leaching probability of Silver Ions to the environment. The use of anti-viral and anti-bacterial paints can help to reduce the spread of infectious diseases, improve overall public health & safety and impart environment-friendly features after paint application.

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(11) Patent registration No and date 1007097, 19/04/2026
(21) Appl. No. BD-P-2023-77
(22) Filed: 12/03/2023

(23) Priority Data:
India, Number :202241017994, Date : 28-03-2022.

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(74) Agent : Md.Masum Rana,Advocate, {app_representative_address}, Bangladesh

(51) INT. CL. : F21Y 115/10

(54) Invention Title: Headlamp bracket for a saddle type vehicle

(57) Abstract

The present invention relates to an assembly (100) of an upper bridge member (110), a pair of left and right handlebar holders (120L, 120R) and a headlamp bracket (130) of a saddle type vehicle (10). The saddle type vehicle (10) includes a pair of left and right front forks (22L, 22R) supporting a front wheel (36) of the vehicle (10), an upper bridge member (110) connecting the pair of left and right front forks (22L, 22R), a pair of left and right handlebar holders (120L, 120R) disposed on the upper bridge member (110) and configured to receive a handlebar (24) of the vehicle (10) and a headlamp bracket (130) mounted to the upper bridge member (110) opposite the pair of left and right handlebar holders (120L, 120R). The upper bridge member (110) is sandwiched between the headlamp bracket (130) and the pair of left and right handlebar holders (120L, 120R).

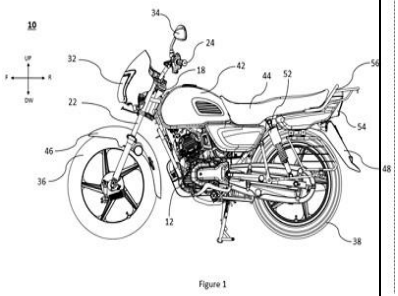

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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(22) Filed: 13/07/2023

(23) Priority Data:
India, Number :202241040566, Date : 15-07-2022.

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(74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh

(51) INT. CL. : B21H 9/00

(54) Invention Title: FEEDING APPARATUS FOR A TEXTILE BLENDING MACHINE

(57) Abstract

The present invention relates to a feeding apparatus for a textile blending machine, comprising a feed duct (2) for conveying fibre flocks from a blow-room line to a feed chute (3) which compresses the fibre flocks, and a feeding assembly (4, 5) for processing the compressed fibre flocks. The feeding assembly (4, 5) includes a feed roller (4), and a beating roller (7) configured to open individual fibre flocks and transfer the opened fibre flocks to a weighing unit (11). A blending unit (12) receives the weighed fibre flocks, and blends the weighed fibre flocks at a pre-defined blend ratio. A second variable drive unit (8) controls speed of the beating roller (7) such that a draft between the feed roller (4) and the beating roller (7) is controlled by varying the speed of the beating roller (7) in proportion with the speed of the feed roller (4).

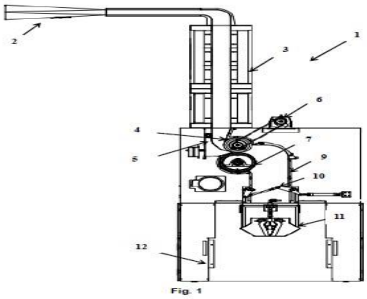

Fig. 1

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(11) Patent registration No and date 1007117, 14/05/2026
(21) Appl. No. BD-P-2023-204
(22) Filed: 09/08/2023

(23) Priority Data:
N/A

(71) Applicant: Berger Paints Bangladesh Limited of House 08, Road 02, Sector 03, Uttara Model Town, Dhaka, Nationality -Bangladesh

(72) Inventors: (0) Dr ASM Obaidullah Mahmud of Berger House, House 08, Road 02, Sector 03, Uttara , Dhaka, 1230, Bangladesh Nationality -Bangladesh, (1) Ali Shazzad Mohammad Morshed of Berger House, House 08, Road 02, Sector 03, Uttara , Dhaka, 1230, Bangladesh Nationality -Bangladesh, (2) Md. Masudul Haque of Berger House, House 08, Road 02, Sector 03, Uttara , Dhaka, 1230, Bangladesh Nationality -Bangladesh, (3) Mofizur Rahman of Berger House, House 08, Road 02, Sector 03, Uttara , Dhaka, 1230, Bangladesh Nationality -Bangladesh

(51) INT. CL. : C09D 5/14

(54) Invention Title: process for the preparation of Berger 4620 Microbe-Guard Emulsion (specialized latex polymer) that can be used as clear coat or paints additive for getting anti-viral and anti-bacterial efficacy from coated surface

(57) Abstract
This invention discloses a process for the preparation of specialized latex polymer named as Berger 4620 Microbe-Guard Emulsion provide excellent anti-viral and anti-bacterial effect which can be used as clear coat on painted or bare/fair-face surface and used as additive for manufacturing of anti-bacterial and anti-viral paints. It is typically used as a protective coating (clear coat) or incorporate in paints formula by replacing regular emulsion binder and anti-bacterial & anti-viral additives. It has been employed to inhibit the growth and proliferation of microorganisms, such as bacteria and viruses on painted surfaces. Painted surface with Berger 4620 Microbe-Guard Emulsion (as clear coat or additive for paints) will create a more hygienic environment and reduces the risk of contamination or transmission of harmful pathogens. Therefore, it emerges as a distinctive antimicrobial and anti-viral solution, while this emulsion guarantees enduring resilience against microorganisms.

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(11) Patent registration No and date 1007121, 14/05/2026
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(22) Filed: 20/08/2023

(23) Priority Data:
N/A

(71) Applicant: Md. Masud Rana, Assistant Professor of Department of Fishing and Post Harvest Technology Faculty of Fisheries, Aquaculture and Marine Science Sher-e-Bangla Agricultural University Dhaka-1207 , Nationality - Bangladesh

(72) Inventors: (0) Md. Masud Rana, Assistant Professor of Department of Fishing and Post Harvest Technology Faculty of Fisheries, Aquaculture and Marine Science Sher-e-Bangla Agricultural University Dhaka-1207, Bangladesh Nationality -Bangladesh

(51) INT. CL. : A23L 17/00

(54) Invention Title: A METHOD FOR PRODUCING NOVEL RECIPES AND FILLINGS FOR CANNED HILSA AND CARP FISH PRODUCTS

(57) Abstract
Revolutionizing the canned fish industry in Bangladesh, this patent introduces innovative recipes and fillings tailored for Hilsa and Carp fishes. Leveraging advanced food processing techniques, the invention enhances traditional fish preservation practices. Diverse treatments for both Hilsa and Carp fishes, along with meticulously designed ingredients and varying proportions, yield a range of captivating flavors and textures. These novel formulations are developed to amplify product shelf life, consumer acceptability, and nutritional value. The methods encompass canning processes, optimizing temperature and time parameters for safe and flavorful canned products. This groundbreaking innovation not only enriches the local culinary experience but positions Bangladesh as a global leader in the canned fish sector. The novel recipes and formulations foster economic growth, offering new avenues for value addition and diversification, while sustaining the rich aquatic resources of the region.

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(21) Appl. No. BD-P-2023-216
(22) Filed: 20/08/2023

(23) Priority Data:
N/A

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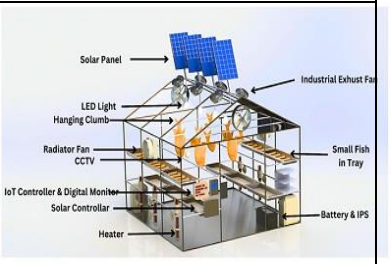
(51) INT. CL. : A01K 61/10

(54) Invention Title: AN IOT-ENABLED CLIMATE-SMART SOLAR FISH DRYER FOR PREMIUM EXPORTABLE DRY FISH PRODUCTION

(57) Abstract
The "IoT-Enabled Climate-Smart Solar Fish Dryer for Premium Exportable Dry Fish Production" presents a paradigm shift in fish processing, emphasizing sustainability, product quality, and climate resilience. This innovative dryer utilizes renewable energy and advanced IoT technology to create high-quality exportable dry fish products. By harnessing solar energy, the system significantly reduces carbon emissions and non-renewable resource reliance, aligning with eco-friendly practices. Precise IoT monitoring ensures optimal drying conditions, yielding premium products meeting international standards. Beyond economic gains, this solution bolsters climate resilience, remaining operational during adverse weather, bolstering industry sustainability and food security. This revolutionary invention merges renewable energy, IoT integration, and climate-resilient practices, fostering global market access, empowering local communities, and advancing environmental preservation in the realm of fish processing.



3D Design of the invented SAU Advanced Fish Dryer

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(23) Priority Data:
Republic of Korea, Number :1020220145379, Date : 03-11-2022.

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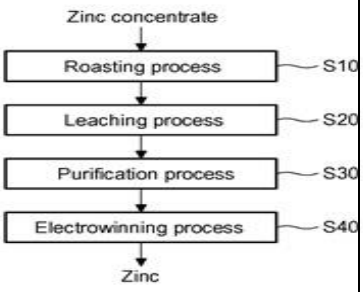
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : B01J 19/18

(54) Invention Title: METHOD FOR REMOVING CHLORINE IN ZINC HYDROMETALLURGY

(57) Abstract
The present disclosure provides a method for removing chlorine from a process solution in zinc hydrometallurgy, the method comprising: a step for preparing the process solution from a leaching process of leaching a zinc calcine; a step for introducing the process solution to a reactor and introducing a lead concentrate into the reactor while blowing-in oxygen; a step for solid-liquid separating of a slurry in a filtration tank, the slurry being produced in the reactor; and a step for post-processing a filtrate and a lead concentrate residue separated in the step for solid-liquid separating, wherein chlorine ions in the process solution and silver contained in the lead concentrate react with each other in the reactor to precipitate a silver chloride.



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(11) Patent registration No and date 1007112, 14/05/2026
(21) Appl. No. BD-P-2023-245
(22) Filed: 05/10/2023

(23) Priority Data:
Republic of Korea, Number :1020220128929, Date : 07-10-2022.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Republic of Korea

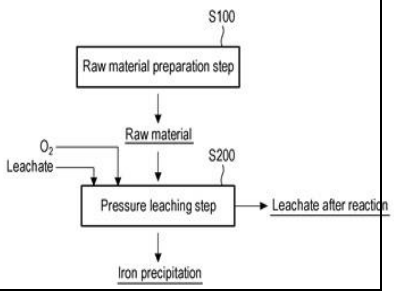
(72) Inventors: (0) CHOI, Heon Sik of Park-3101, 234 Beonyeong-ro, Nam-gu, Ulsan 44696, Republic of Korea Nationality -Republic of Korea, (1) PARK, Sung Won of 12-305, 18 Seoyeongnam 1-gil, Onsan-eup, Ulju-gun, Ulsan 45003, Republic of Korea Nationality -Republic of Korea

(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : B01D 25/28

(54) Invention Title: METHOD FOR LEACHING COPPER USING PRESSURE LEACHING TECHNIQUE

(57) Abstract
The present disclosure discloses a method for leaching copper using a pressure leaching technique, according to one embodiment, including: a raw material preparation step of preparing a raw material containing copper; and a pressure leaching step including a step of introducing the raw material into a leachate in a pressurization device and pressure-leaching copper while injecting oxygen into the pressurization device.



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(21) Appl. No. BD-P-2023-267
(22) Filed: 02/11/2023

(23) Priority Data:
Republic of Korea, Number :1020220159206, Date : 24-11-2022.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Republic of Korea

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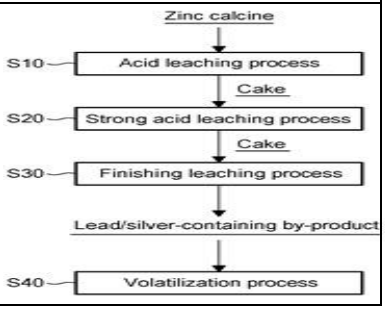
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : B60W 20/16

(54) Invention Title: METHOD FOR PROCESSING BY-PRODUCT OF ZINC HYDROMETALLURGICAL PROCESS WITH REDUCED CARBON EMISSION

(57) Abstract

A method for processing a by-product of zinc hydrometallurgy, according to one embodiment of the present disclosure, includes a pressure leaching process of pressure leaching a lead/silver-containing by-product, which is generated in a finishing leaching process of zinc hydrometallurgy, by using an autoclave so that contents of zinc and iron contained in a leaching residue are less than 1 wt%, respectively.



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(11) Patent registration No and date 1007106, 14/05/2026
(21) Appl. No. BD-P-2023-268
(22) Filed: 02/11/2023

(23) Priority Data:
Republic of Korea, Number :1020230002979, Date : 09-01-2023.

(71) Applicant: KOREA ZINC CO., LTD. of 542 Gangnam-daero, Gangnam-gu, Seoul 06110, Nationality -Republic of Korea

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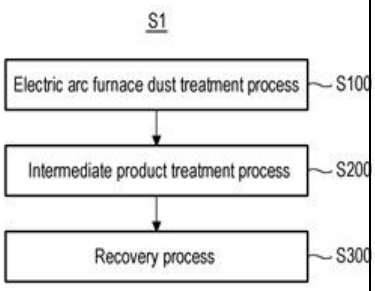
(74) Agent : Shahid & Alliance, {app_representative_address}, Bangladesh

(51) INT. CL. : F27B 3/08

(54) Invention Title: METHOD FOR RECOVERING IRON AND VALUABLE METALS FROM ELECTRIC ARC FURNACE DUST

(57) Abstract

A method for recovering iron and valuable metals from electric arc furnace dust includes: an electric arc furnace dust treatment process of treating electric arc furnace dust to produce an intermediate product containing iron; an intermediate product treatment process of heating the intermediate product to a predetermined temperature range so that the intermediate product charged into a melting furnace is melted and reduced; and a recovery process of recovering metallic iron produced by reduction from the intermediate product and recovering valuable metals generated in the form of dust. The intermediate product treatment process includes a reducing agent charging process of charging a reducing agent containing carbon into the melting furnace to increase an amount of the metallic iron reduced from the intermediate product. The reducing agent is charged into the melting furnace at an equivalent ratio of 1.7:1 to 3.1:1 relative to iron oxide contained in the intermediate product.



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(11) Patent registration No and date 1007120, 14/05/2026 **(21) Appl. No.** BD-P-2024-211 **(22) Filed:** 09/07/2024
(23) Priority Data: N/A
(71) Applicant: Daffodil International University of Daffodil Smart City, Birulia, Savar, Dhaka-1216, Nationality - Bangladesh
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(51) INT. CL. : A23L 11/65
(54) Invention Title: A PROCESS FOR THE PRODUCTION OF ALOE-BLENDED HEALTHY DRINK
(57) Abstract

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(11) Patent registration No and date 1007103, 14/05/2026 **(21) Appl. No.** BD-P-2025-116 **(22) Filed:** 23/03/2025
(23) Priority Data: N/A
(71) Applicant: Daffodil International University of Birulia, Savar, Dhaka-1216, Nationality -Bangladesh
(72) Inventors: (1) DR. MD. KABIRUL ISLAM of DIU, Birulia, Ashulia, Dhaka, Bangladesh Nationality -Bangladesh, (2) DR MD. ZAHURUL HAQUE of DIU, Birulia, Ashulia, Dhaka, Bangladesh Nationality -Bangladesh, (3) TITHT BISWAS of DIU, Birulia, Ashulia, Dhaka, Bangladesh Nationality -Bangladesh, (4) PAYEL DEBNATH of DIU, Birulia, Ashulia, Dhaka, Bangladesh Nationality -Bangladesh
(51) INT. CL. : A23L 33/105
(54) Invention Title: A PROCESS FOR TIIE PRODUCTION OF BEETROOT FLAKES AS A FUNCTIONAL FOOD
(57) Abstract

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(11) Patent registration No and date 1007101, 10/05/2026
(21) Appl. No. BD-P-2025-211
(22) Filed: 22/07/2025

(23) Priority Data:
N/A

(71) Applicant: Bangladesh Agricultural University of Mymensingh, Nationality -Bangladesh

(72) Inventors: (1) Professor Dr. Md. Shafiqul Islam of 2202, Faculty of Veterinary Science, Bangladesh Agricultural University (BAU), Bangladesh Nationality -Bangladesh

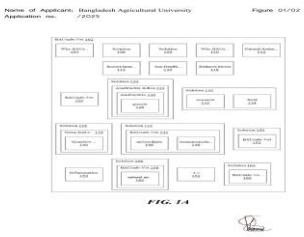
(74) Agent : Professor Dr. Md. Shafiqul Islam, {app_representative_address}, Bangladesh

(51) INT. CL. : A22C 21/00

(54) Invention Title: BAUsafe-Vet: A Stable Neem Leaf Extract-Based Veterinary Composition as an Antibiotic Alternative, Growth Promoter and Immune Enhancer for Broiler Poultry

(57) Abstract

Embodiments of the present disclosure include BAUsafe-Vet may be a natural product derived from the neem leaf (Azadirachta indica) that offers a wide range of benefits in the broiler industry, particularly in promoting poultry health and combating microbial resistance. A solutions about BAUsafe-Vet, explaining beneficial for the broiler industry Embodiments may also include Solution BAUsafe-Vet stands out through its unique, high-precision extraction process. Unlike conventional herbal products, BAUsafe-Vet may be extracted using a sophisticated Soxhlet apparatus with high-purity ethanol-a method trusted in science for delivering maximum efficacy and safety.



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(11) Patent registration No and date 1007102, 14/05/2026
(21) Appl. No. BD-P-2025-233
(22) Filed: 07/08/2025

(23) Priority Data:
N/A

(71) Applicant: Daffodil International University (DIU) of Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Nationality -Bangladesh

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(74) Agent : Daffodil International University (DIU), {app_representative_address}, Bangladesh

(51) INT. CL. : F25D 3/00

(54) Invention Title: Green Solar Cold House – Solar-Powered Eco-Cool Storage for Sustainable Food Preservation

(57) Abstract

In agriculture, post-harvest technology plays a crucial role in reducing food waste and ensuring food security. Every year, thousands of tons of food are wasted due to inadequate preservation methods. Existing food preservation techniques are often expensive, making them inaccessible to small-scale farmers. This utility model presents a solar-powered cold storage system optimized for off-grid, rural use. It integrates a photovoltaic-driven refrigeration unit, an ice-based thermal battery for nighttime cooling, and dome-structured shadow walls made from slate-aluminum reflective tiles for superior thermal resistance. A key innovation is the use of activated carbon and silicon to absorb ethylene gas, extending the freshness of stored produce. The system also features a fruit drying chamber powered by reclaimed heat from the condenser, improving overall energy efficiency. High-grade insulation and optimized airflow ensure consistent cooling, while an IoT-based monitoring system tracks temperature and humidity in real time. Designed for sustainability, efficiency, and resilience, this cold storage solution reduces post-harvest losses and operates independently of the electrical grid, making it ideal for remote agricultural settings.