গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২.২৪৯৯ তারিখঃ ৯/১০/২০২৫ খ্রি.

বিষয়ঃ দাখিলকৃত পেটেন্ট আবেদনসমূহ ওয়েবসাইটে প্রকাশ।

বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ১৭(৪) অনুযায়ী ডিপিডিটিতে ২০২৩ সালের পেটেন্ট আবেদন নং ২২৮; ২০২৪ সালের পেটেন্ট আবেদন নং ৩৫৩ এবং ২০২৫ সালের পেটেন্ট আবেদন নং ৪, ৭০, ১০০, ১৩০, ১৩৯, ১৬৭, ১৮৭, ১৯৫, ২১১, ২৩৩ মোট ১২ (বার) 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 ১২ (বার) পাতা।

৯/১০/২৫
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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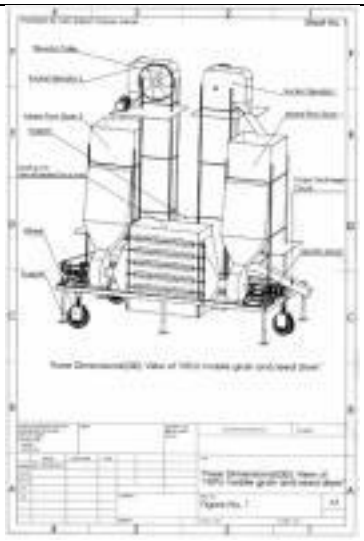
Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2023-228
(22) Filed: 05/09/2023
(23) Priority Data:

(71) Applicant: Hajee Mohammad Danesh Science and Technology University of Dinajpur, Nationality -Bangladesh
(72) Inventors: (0) Dr. Md. Sazzat Hossain Sarker, Professor of Department of Food Engineering and Technology, Hajee Mohammad Danesh Science and Technology University, Dinajpur, Bangladesh Nationality -Bangladesh

(51) INT. CL. : A01C 1/08
(54) Invention Title: HSTU mobile grain and seed dryer

(57) Abstract: HSTU mobile grain and seed dryer



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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2024-353
(22) Filed: 26/11/2024
(23) Priority Data:

(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka – 1205, Nationality -Bangladesh

(72) Inventors: (0) Fariha Chowdhury, Scientific Officer of BTRI, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (1) Mashrafi Bin Mobarak, Scientific Officer of IGCRT, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Mahmuda Hakim, Senior Scientific Officer of BTRI, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) Dr. Dipa Islam, Principal Scientific Officer of BTRI, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) Hajara Akhter, Scientific Officer of BTRI, BCSIR, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh

(51) INT. CL. : C01G 9/02

(54) Invention Title: A process for the green synthesis of zinc oxide nanoparticles using Labeo rohita fish scale

(57) Abstract

In recent years, there has been a lot of interest among researchers who concentrate on sustainable and environmentally friendly synthesis approaches. This study aimed to achieve this by using fish scales, a common household and commercial waste, to synthesize Zinc Oxide Nanoparticles (ZnO NPs). ZnO NPs have gained much research interest due to their unique properties and wide range of applications. The green synthesis route used in this study is particularly attractive because it requires minimal non-toxic chemicals, making it cost-effective, environmentally friendly, and a 'green' synthesis route. Fish scales are rich in collagen, which can be transformed into gelatin upon heat treatment. This gelatin plays a crucial role in both reducing and stabilizing agent that produces ZnO NPs.

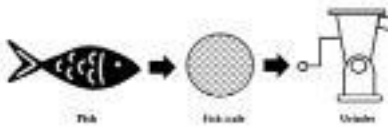

Figure 1: Shows the flow chart of fish scale powder pr

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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-4
(22) Filed: 02/01/2025
(23) Priority Data:

(71) Applicant: Md.Enamul Hoque Khan of Village:Alampur, Post ofiice:Kalidasgati,Union: Bohuli,District:Sirajganj Sadar 6700, Nationality -Bangladesh
(72) Inventors: (0) Md.Enamul Hoque Khan of Village:Alampur, Post ofiice:Kalidasgati,Union: Bohuli,District:Sirajganj Sadar 6700, Bangladesh Nationality -Bangladesh

(51) INT. CL. : F03D 15/00

(54) Invention Title: A MULTIPURPOSE POWER TRANSMISSION DEVICE USED FOR POWER GENERATION

(57) Abstract
Internal Combustion (IC) engines have been the backbone of modern transportation for over a century. They have played a critical role in shaping the way we live and work, powering everything from vehicles and generators to industrial machinery. The IC engine is an intricate device that transforms the energy released during the combustion of fuel into mechanical motion, propelling our world forward. Bus this engine's efficiency is very low. IC engines produce harmful emissions such as carbon dioxide, nitrogen oxides, and particulate matter, contributing to air pollution and climate change. Using the gravitational force that exists throughout the planet, it is conceivable to meet the world's power needs without negatively impacting the environment. The fundamental idea behind the mechanism of gravity power generation is that potential energy is transformed into kinetic energy when a mass is released from a higher altitude and falls to a lower one. These mass movements from a higher altitude to a lower one and from a lower to a higher altitude are performed by a lever and a rotor-stator wheel assembly mechanism.

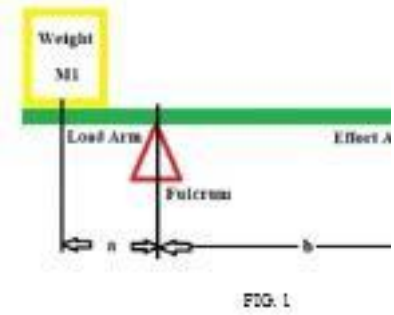

FIG. 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-70
(22) Filed: 11/02/2025
(23) Priority Data:

(71) Applicant: Md. Shamsul Arafine, Proprietor of Honeycomb Tech, 95 West Nakhal Para, Tejgaon, Dhaka 1215, Nationality -Bangladesh
(72) Inventors: (0) Md. Shamsul Arafine, Proprietor of Honeycomb Tech, 95 West Nakhal Para, Tejgaon, Dhaka 1215, Bangladesh Nationality -Bangladesh

(51) INT. CL. : B32B 25/16

(54) Invention Title: Carbohydrate-Based Biopolymer Composite and Jet-Based Method for Producing Biodegradable Poly Film

(57) Abstract
The present invention discloses a biodegradable carbohydrate-based biopolymer composite and a jet-based manufacturing process for producing eco-friendly poly films. The biopolymer composite consists of PVA, cellulose, plasticizers, cross-linkers, and water, exhibiting superior mechanical strength, high elongation (305%), and complete biodegradability. The jet-based film production process employs high-pressure spray nozzles, conveyor belt drying, and automated calendaring rollers, ensuring scalability and cost-effectiveness. A PLC and microcontroller-based system optimizes spray precision, drying efficiency, and film thickness consistency. This sustainable and plastic-free alternative is suitable for packaging, agriculture, and industrial applications, addressing the growing demand for biodegradable materials while minimizing environmental impact.

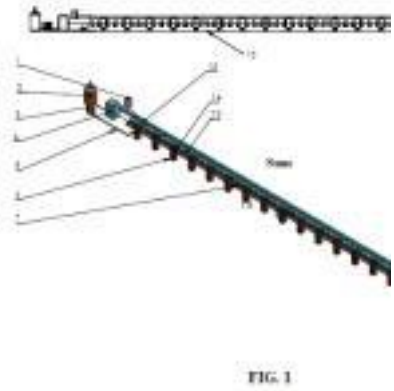
FIG. 1

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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-100
(22) Filed: 26/02/2025

(23) Priority Data:

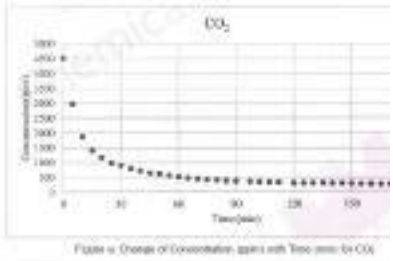
(71) Applicant: Berger Paints Bangladesh Limited of House 08, Road 02, Sector 03, Uttara Model Town, Dhaka, Nationality -Bangladesh

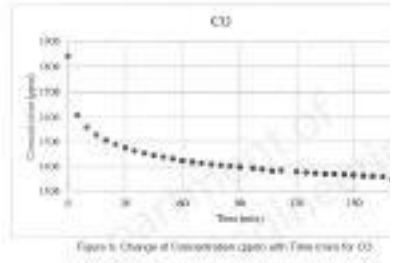
(72) Inventors: (0) Dr ASM Obaidullah Mahmud of Berger House, House 08, Road 02, Sector 03, Uttara, Dhaka, 1230, Bangladesh Nationality -Bangladesh, (1) Ali Shazzad Mohammad Morshed of Berger House, House 08, Road 02, Sector 03, Uttara, Dhaka, 1230, Bangladesh Nationality -Bangladesh, (2) Md Masudul 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, (4) Md Fahim Hossain of Berger House, House 08, Road 02, Sector 03, Uttara, Dhaka, 1230, Bangladesh Nationality -Bangladesh

(51) INT. CL. : C23C 14/52

(54) Invention Title: A functional coating (BERGER ECO COAT) for absorbing greenhouse gases (CO2 & CH4) & air pollutants (Formaldehyde, CO, H2S, SOx & NOx) from environment and its manufacturing process thereof

(57) Abstract
The present invention discloses a functional coating named as BERGER ECO COAT which contains a composition designed for the absorption, and neutralization of Green House Gases i.e. CO2 & CH4 and Air Pollutants i.e. Formaldehyde (HCHO), CO, H2S, SOx & NOx from the environment. The coating is formulated with absorbents, functional polymeric binder, dispersant etc. to effectively capture and decompose greenhouse gases and airborne pollutants. The invention also encompasses a manufacturing process that ensures homogeneous dispersion, stability, and extended reactivity of the coating materials. The process includes the preparation of absorbents, incorporation of polymeric binders, and controlled mixing to enhance the coating's gas absorption efficiency. The formulation is designed to be durable, easy to apply, and suitable for industrial, commercial, and residential applications. Green House Gases & Air Pollutants Absorption Coating can be applied to walls, ceilings, industrial equipment, and infrastructure surfaces, providing a long-lasting, low-maintenance, and energy-efficient solution for mitigating hazardous gas emissions. The invention offers a cost-effective alternative to conventional air purification technologies, improving indoor and outdoor air quality while contributing to environmental sustainability.





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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-130
(22) Filed: 25/03/2025

(23) Priority Data:

(71) Applicant: Military Institute of Science and Technology of Mirpur Cantonment, Dhaka-1216, Nationality - Bangladesh

(72) Inventors: (1) Md. Tobibul Islam of Tower-04, 3rd Floor, Biomedical Engineering Department, Military Institute of Science of Technology, Mirpur Cantonment, Dhaka-1216, Bangladesh Nationality -Bangladesh, (2) Samir Fazal Manam of Tower-04, 3rd Floor, Biomedical Engineering Department, Military Institute of Science of Technology, Mirpur Cantonment, Dhaka-1216, Bangladesh Nationality -Bangladesh

(51) INT. CL. : G10L 25/75

(54) Invention Title: Method and System of Rehabilitation for Vocally Impaired People Using AAC Device

(57) Abstract

Method and System of Rehabilitation for Vocally Impaired People Using AAC Device

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-139
(22) Filed: 07/04/2025
(23) Priority Data:

(71) Applicant: Goutam Kumar Roy of 27(27/25 Old) Dhaka Road, Chourhash, Kustia Sader, Kustia-7000, Nationality -Bangladesh
(72) Inventors: (0) Goutam Kumar Roy of 27(27/25 Old) Dhaka Road, Chourhash, Kustia Sader, Kustia-7000, Bangladesh Nationality -Bangladesh

(51) INT. CL. : A61P 31/04

(54) Invention Title: The antibacterial and phytochecal activities of bioactive elements (Herbal Pesticides) in the leaves of Annona reticulata Linn, a historically used Bangladeshi medicinal plant.

(57) Abstract
The present invention provides an in-depth analysis of the antibacterial and phytochemical activities of the leaves of *Annona reticulata* Linn. The leaves of the plant were subjected to a series of extraction and analysis processes to identify the bioactive compounds responsible for their medicinal properties. Phytochemical analysis revealed the presence of various bioactive elements, including alkaloids, flavonoids, tannins, saponins, and terpenoids, all of which contribute to the plant's antibacterial effects.
Antibacterial testing conducted on the leaf extracts demonstrated significant activity against a range of pathogenic bacteria, including both gram-positive and gram-negative bacteria. The invention identifies specific bioactive compounds that exhibit strong antibacterial activity, making them potential candidates for the development of natural, plant-based antibiotics.
The invention also suggests methods for extracting, isolating, and purifying these bioactive compounds, it will used as a Herbal Pesticides.

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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-167
(22) Filed: 12/05/2025

(23) Priority Data:
India, Number :202411037094, Date : 10-05-2024.

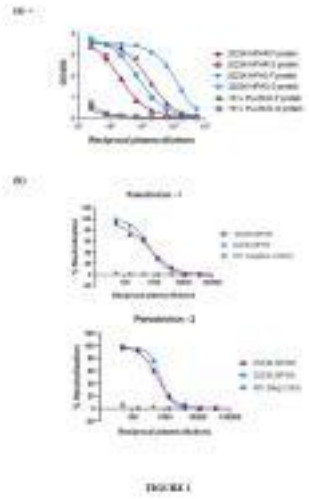
(71) Applicant: TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE of NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurugram Expressway, Faridabad-121001, Haryana, Nationality -India

(72) Inventors: (1) DESHPANDE, SUPRIT of THSTI, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurugram Expressway, Faridabad 121001, Haryana, India Nationality -India, (2) BHATTACHARYA, JAYANTA of THSTI, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurugram Expressway, Faridabad 121001, Haryana, India Nationality -India, (3) SHRIVAS, SHWETA of THSTI, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurugram Expressway, Faridabad 121001, Haryana, India Nationality -India, (4) KUMAR, NARESH of THSTI, NCR Biotech Science Cluster, 3rd Milestone, Faridabad-Gurugram Expressway, Faridabad 121001, Haryana, India Nationality -India

(51) INT. CL. : A61K 39/165

(54) Invention Title: MONOCLONAL ANTIBODIES AGAINST NIPAH VIRUS

(57) Abstract
The present invention relates to an engineered monoclonal antibody having fragments of heavy chain (HC) and light chain (LC) selected from SEQ ID No. 1, 2, 3, 4, 5, 6, 7, 8, 9 10, 11, 12, 13, 14 and 15 or a combination thereof for interacting and neutralizing Nipah virus as well as Hendra virus isolate. The present invention also discloses the method of production of monoclonal antibodies and its use thereof.



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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-187 **(22) Filed:** 16/06/2025
(23) Priority Data:
(71) Applicant: Feroz Rahim of Rahimafrooz Bangladesh Limited, 13 Mohakhali, DHAKA, 1212, Bangladesh
(72) Inventors: (1) Faraaz Abdur Rahim of Rahimafrooz Batteries Ltd, 705 Nakhalpara, Tejgaon, DHAKA, 1215, Bangladesh
(74) Agent : Remfry & Son, {app_representative_address}, Bangladesh
(51) INT. CL. : B60L 53/53
(54) Invention Title: SODIUM ION BATTERY
(57) Abstract **The key recipe that defines a Sodium-ion battery are Prussian blue, Prussian white, Polyanionic acid, and Layered Oxide.** **The patent shall cover Sodium-ion cells in the (1) Pouch, (2) Cylindrical, or (3) Prismatic types.**

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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-195 **(22) Filed:** 19/06/2025
(23) Priority Data:
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(51) INT. CL. : A24B 3/08
(54) Invention Title: HoneyBro/RoBaNa A nicotine-free herbal cigarette/smoking blend made from Brahmi, Jatamansi, Rose Petals, and Marigold as a natural alternative to conventional tobacco cigarettes
(57) Abstract The present invention describes a herbal cigarette blend composed of Brahmi, Jatamansi, Rose Petals, and Marigold as a natural alternative to tobacco. It is nicotine-free and tobacco-free, non addictive, no additives while preserving the sensory experience of smoking. The preparation process and intended recreational usage are also disclosed.

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Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-211
(22) Filed: 22/07/2025

(23) Priority Data:

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(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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www.dpdt.gov.bd

Publication of Filed Patent Application
Publication No: 24 & Date: October 9, 2025

(21) Appl. No. BD-P-2025-233
(22) Filed: 07/08/2025

(23) Priority Data:

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(51) INT. CL. :

(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.