

### List of Published Patents

Sl.No	Application No	Title of Invention	Inventor (s)	Date of publication
1	202331068011	IOMT based hospital network with openflow QOS support and fog/cloud off loading	Dr. Nabajyoti Medhi, Mr. Kumarjit Ray, Mr. Rajdeep Ghosh, Mr. Aditty Dey, Mr. Kunal Das, Mr. Pritindra Das, Mr. Vicky Kumar Deka, Mr. Tridib Lochan Dutta, Ms. Debangee Goswami, Mr. Prabhatangshu Phukan, Pratik Chanda, Birglang Bargayary and Arindom Aich	08-11-2024
2	202331046993	Low-cost biodegradable plate made from Eggshell	Sriram M. and Laxmikant S. Badwaik	02-08-2024
3	202331046391	Paper based device for simultaneous sensing of multiple adulterants and contaminants in raw milk	Rajib Biswas, Upama Das, Nikhil Kumar Daimari, Pohar Borah and Ashamoni Neog	26-07-2024
4	202331047578	Automated device for stem removal of King Chilli (Bhut Jolokia)	Abinash Thakur, Onishaa Saikia, Jiten Chandra Dutta and Satyajib Bhattacharya	19-07-2024
5	202331044106	A quick and efficient daylight photocatalyst	Pawan Chetri, Rituraj Mahanta and Gazi Ameen Ahmed	05-07-2024
6	202331038151	A cost effective and smart e-commerce inventory management system using autonomous system of blind mobile robots	Barnali Chowdhury, Pradipta Barma	07-06-2024
7	202431012822	Traction Control Using Magnetorheological Dampers For Electric Vehicle	Subhankar Chakraborty, Shantanu Sharma and Pronita Boro	10-05-2024
8	202431015607	Pahi: Next-Gen Responsive Bionic Arm 1.0	Durlav Sonowal and Rajjul Hussain	03-05-2024
9	202331012154	Detection of egg albumin	Arindom Sharma, Subhankar Chakraborty and Santanu Sharma	08-03-2024
10	202331007131	Black fungus detection kit based on inter-digital planer paper capacitance	Partha Pratim Sahu, Subham Verma, Satyajit Das, Bidhisha Saha, Sanjeev Karmakar and Pranobesh Chattopadhyay	08-03-2024
11	202331006389	A system for rapid onsite measurement of cysteine content in test sample	Partha Pratim Sahu and Biswadeep Roy	08-03-2024
12	202331000063	Smart Portable Dheki	Nidhi S. Bhattacharya, Bidhan Ch. Das, Abhilash Gayan and Pranjit Kr. Baishya	08-03-2024
13	202231069759	STAMP (Stacked Tray Modular Photo-bioreactor)	Dhanapati Deka and Doljit Borah	08-03-2024

14	202231066854	Microwave Self-Healable And Melt Reprocessable Environmentally Benign, Organic Solvent-Free, And Surfactant-Free Waterborne Polyurethane/Acrylic Dispersions	Niranjana Karak and Samiran Morang	08-03-2024
15	202231058974	Online biogas plant diagnostic, forecasting and management system	Priyam Kumar Das, Durlav Sonowal and Debendra Chandra Baruah	08-03-2024
16	202231043102	Process for immobilization of pectinase on chitin support using ultrasound	Nandan sit, Nipona Shill, Nurin Afzia, Bhaskar Jyoti Kalita	02-02-2024
17	202231042538	Biodegradable heat shrinking film for cylinder gas cap and bottle lid sealing	Pritam Deb, Meenakshi Talukdar and Sudhansu Shekhar Sahoo	02-02-2024
18	202231042165	Value-added cattle urine as liquid fertilizer	Robin Kumar Dutta and Rituparna Saikia	26-01-2024
19	202131045925	IoT Based Portable Ventilator	Ankita Das, Bihung Muchahary, Aniket Raj, Manish Kumar, Firdausa Ahmed, Chiranjit Adhikary and Soumik Roy	08-09-2023
20	202231009453	Paper capacitive sensor based novel corona virus detection kit	Partha Pratim Sahu, Geetartha Sarma and Biswajit Kakoty	08-09-2023
21	202131060631	A smartphone based analytical system	Pabitra Nath, Diganta Rabha and Diganta Hatiboruah	30-06-2023
22	202131041315	Development of multimodal optofluidic system for sensing heavy metal ions	Rajib Biswas, Pritam Deb, Nirmal Mazumder and Soumyabrata Banik	16-06-2023
23	202131055185	Remote controlled device for collection of oil from the oil spill on land	Pritam Deb, Monika Sharma and Nitumoni Konwar	02-06-2023
24	202131054965	Device for sensing and collection of Oil spill on water bodies	Pritam Deb, Monika Sharma and Manas Pratim Chetry	02-06-2023
25	202131044011	An Oxygen generation equipment based on water splitting for chronic/acute respiratory syndrome patients	Partha Pratim Sahu and Jagat Das	31-03-2023
26	202131020238	System for real-time onsite tracing of water content present in aircraft or jet fuel.	Partha Pratim Sahu	03-02-2023
27	202131022730	An Emg Based Multi Grasp Prosthetic Hand with an Android Interface	Nayan M. Kakoti and Lakhyajit Gohain	25-11-2022
28	201931020800	A System and apparatus for measuring and monitoring transformer oil breakdown voltage using optical fiber sensor	Partha Pratim Sahu	03-06-2022
29	202231030989	Methods and apparatus of multi-modal microscopic imaging on a smartphone and OLED display illumination	Pabitra Nath and Diganta Rabha	08-07-2022

30	202031039202	Development of low fat baked snacks using de-oiled soya flour	Ayan Bhattacharjee, Devesh Kumar and Laxmikant S. Badwaik	11-03-2022
31	202031002271	Removal of arsenic from ground water by capsule technique.	Chiranjeev Bezbaruah, Parag Nath and Robin Kumar Dutta	23-07-2021
32	201911027455	Aptamers against phospholipase A2 in snake Venom and uses thereof	Tarun Kumar Sharma, Anjali Anand, Robin Doley	20-08-2021
33	202031000071	An improved iron fortification technique for fortification of rice using cold plasma	Poonam Mishra and Kumudhini Akasapu	02-07-2021
34	201931049269	An EMG based Prosthetic Hand Controller for Real Time Grasping realizing Neuromuscular Constraint	Nayan M. Kakoty, Lakhyajit Gohain	04-06-2021
35	201931020788	Polymer/antibiotic coated Muga (antheraea assamensis) silk suture	Arup Jyoti Choudhury, Gazi Ameen Ahmed, Namita Ojah	28-05-2021
36	201831045154	A bicycle saddle system adapted to exert backward reactive force in countering the forward slip of the rider during sudden braking	Dilip Dutta, Arpeeta Saikia, Zahnpriya Kalita and Sudipta Saikia	12-02-2021
37	201831045155	System for enhancing stability of bicycle by steering-back handle bar automatically	Dilip Dutta, Sudipta Saikia, Zahnpriya Kalita and Arpeeta Saikia	12-02-2021
38	201731009379	Magnetic secondary nanostructure as contrast agent for Magnetic resonance imaging	Pritam Deb and Kausik Saikia	12-02-2021
39	201731000104	Selective para-hydroxylation of substituted aromatic hydrocarbons using H <sub>2</sub> O <sub>2</sub> catalyzed by waterborne hyperbranched polyurethane/carbon quantum dot nanocomposite	Niranjan Karak, Vijay Kumar Das and Satyabrat Gogoi	12-02-2021
40	201931014698	Two dimensional heterostructure based composite films for food packaging	Pritam Deb and Meenakshi Talukdar	16-10-2020
41	201931012050	A continuous jaggery making machine	Mr. Amit Baran and Das Himakshi Baishya	02-10-2020
42	201831038837	Toxins-targeted specific novel anti snake venom	Asish Kumar Mukherjee Aparup Patra, Sumita Dutta, Bhargab Kalita and Abhisekh Chanda	17-04-2020

43	201831010002	Toxin-epitope based detection of species-specific snake envenomation	Asish Kumar Mukherjee and Sumita Dutta	20-03-2020
44	201831009528	A portable optical fiber instrument for instant petrol purity detection	Partha Pratim Sahu	20-09-2019
45	201831009592	Designed 2d graphitic sheet for viscous oil removal using magnet	Pritam Deb and Meenakshi Talukdar	20-09-2019
46	201831009678	Integrated and automated set up for preparation and vending of panipuri	Saurav Jyoti Sarma, Abhijit Nath, Polas Pratim Dutta and Chandeeep Suman Gogoi	20-09-2019
47	201831010001	Synthetic anticoagulant peptides derived from <i>Naja naja</i> snake venom	Asish Kumar Mukherjee and Sumita Dutta	20-09-2019
48	1742/DEL/2013	Multifunctional nanoparticles, methods of synthesis thereof, and methods of biomedical uses thereof.	Pritam Deb and Madhulekha Gogoi	26-07-2019
49	1460/KOL/2010	System for measuring and correction of alignment parameters camber and toe of wheel of a vehicle	Santanu Sarma, Barnalee Sarma, Riku Chutia and Partha Pratim Dutta	05-04-2019
50	201831009091	Multifunctional Multiple Pot Solid Fuelled Stove with Combustion Air Preheating and Flue Gas Heat Extraction	Biswajit Gogoi and Debendra Chandra Baruah	22-02-2019
51	201631022922	Smartphone based system for detection and measurement of chemical and biological species in liquids	Iftak Hussain, Syed Ibtisam Tauhidi, Kamal Uddin Ahamad Pabitra Nath	31-08-2018
52	1313/KOL/2015	Anticoagulant actives and synergistic anticoagulant composition and method of producing the same	Ashish Kumar Mukherjee and Debananda Gogoi	01-12-2017
53	201631016888	A Two Way Ratchet	Arup Jyoti Chutia	17-11-2017
54	201631016889	Intelligent Helmet System	Ratul Kumar Baruah, Amit Kumar, Saurav Dutta and Surajit Paul	17-11-2017
55	201631010727	Novel Soil Conditioners	Sanjay Pratihar, Satya Sundar Bhattacharya, Pallabi Das and Kasturi Sarmah	06-10-2017

56	20/KOL/2011	Digital Occupany Meter for Commercial Passenger Vehicles	Pradyumna Kr. Choudhury	02-09-2017
57	201631006546	A process for manufacture of turmeric powder from raw turmeric rhizomes	Brijesh Srivastava, Baby Z. Hmar and Dipsikha Kalita	01-09-2017
58	201631005351	Casein Nanoparticles for Colon Targeted Controlled Delivery of Biologically Active Agents in Foods	Pallab Kumar Borah and Raj Kumar Duary	18-08-2017
59	675/KOL/2010	Single step process for the synthesis of polyaniline nanofiber reinforced polymer nano composites	Ashok Kumar and Somik Banerjee	02-09-2016
60	1296/KOL/2014	Nanocatalyst for bio oil production	Pritam Deb and Kasmiri Deka	17-06-2016
61	1295/KOL/2014	Mesoporous secondary nanostructures as multifunctional heavy metal scavenger	Pritam Deb, Kakoli Bhattacharya and Devaborniny Parasar	17-06-2016
62	211/KOL/2014	A Synthetic hyperbranched epoxy surgical sealant and a process for preperation thereof.	Niranjan Karak, Saswat Barua and P. Chattapadhyaya	21-08-2015
63	1147/KOL/2009	Efficient method for emulsion polymerization of styrene monomer in super critical carbondioxide using (trifluoromethyle) undecafluorocyclohexane stabilizer.	Isha R Kamrupi and Swapon Kr. Dolui	28/06/2013
64	401/KOL/2011	Insulin mimetic active comprising oxodiperoxo vanadates and a pharmaceutical composition obtained thereof.	Mihir Kanti Choudhury, Sahid hussain, Saitanya Bharadwaj, Upasana Bora Sinha, Dhrubajyoti Talukdar, Abul Usmai, Subeer Suhash Majumdar, Susmita Bhattacharya, Suman Dasgupta, Rakesh Kundu, Samir Bhattacharya and Shelley Bhattacharya.	16-11-2012
65	296/DEI/2010	Amla lemon based ready to serve drinks (enriched with polyphenols)	Poonam Mishra	27-04-2012
66	637/KOL/2011	Eco friendly dry chilli spray from Bhot Jalakia of Assam	Mihir Kanti Chaudhuri,Charu Lata Mahanta and D Kalita	02-12-2011
67	2132/KOL/2008	Iron removal from water using HCO <sup>3-</sup> or CO <sub>3</sub> <sup>2-</sup> salts of K <sup>+</sup> or Na <sup>+</sup> retaining the pH within acceptable limit for drinking	Robin Kumar Dutta,Suresh Kumar Nath and Shreemoyee Bordoloi	25-12-2009

68	1021/KOL/2009	Tender coconut water beverage from coconuts from Assam	Mihir Kanti Chaudhuri, Charu Lata Mahanta and Alak Kumar Buragohain	11-12-2009
69	1215/KOL/2008	Enhanced limestone defluoridation of fluoride contaminated water in the presence of citric acid and acetic acid	Robin Kumar Dutta and Suresh Kumar Nath	11-12-2009
70	522/KOL/2008	A Reduced Size Linearly Tapered 3dB (Half Power Splitter) Multimode Interference (MMI) Coupler	Partha Pratim Sahu	18-09-2009
71	1909/CHE/2006	Catalysts and process for oxidation and deep desulphurization of transportation fuels	Mihir Kanti Chaudhuri, S. Hussain and V. Srihari Tadimalla	25-04-2008