

### List of Published Patents

Sl.No	Application No	Title of Invention	Inventor (s)	Date of publication
1	202231042165	Value-added cattle urine as liquid fertilizer	Robin Kumar Dutta and Rituparna Saikia	26-01-2024
2	202131045925	IoT Based Portable Ventilator	Ankita Das, Bihung Muchahary, Aniket Raj, Manish Kumar, Firdausa Ahmed, Chiranjit Adhikary and Soumik Roy	08-09-2023
3	202231009453	Paper capacitive sensor based novel corona virus detection kit	Partha Pratim Sahu, Geetartha Sarma and Biswajit Kakoty	08-09-2023
4	202131060631	A smartphone based analytical system	Pabitra Nath, Diganta Rabha and Diganta Hatiboruah	30-06-2023
5	202131041315	Development of multimodal optofluidic system for sensing heavy metal ions	Rajib Biswas, Pritam Deb, Nirmal Mazumder and Soumyabrata Banik	16-06-2023
6	202131055185	Remote controlled device for collection of oil from the oil spill on land	Pritam Deb, Monika Sharma and Nitumoni Konwar	02-06-2023
7	202131054965	Device for sensing and collection of Oil spill on water bodies	Pritam Deb, Monika Sharma and Manas Pratim Chetry	02-06-2023
8	202131044011	An Oxygen generation equipment based on water splitting for chronic/acute respiratory syndrome patients	Partha Pratim Sahu and Jagat Das	31-03-2023
9	202131020238	System for real-time onsite tracing of water content present in aircraft or jet fuel.	Partha Pratim Sahu	03-02-2023
10	202131022730	An Emg Based Multi Grasp Prosthetic Hand with an Android Interface	Nayan M. Kakoti and Lakhyajit Gohain	25-11-2022
11	201931020800	A System and apparatus for measuring and monitoring transformer oil breakdown voltage using optical fiber sensor	Partha Pratim Sahu	03-06-2022
12	202231030989	Methods and apparatus of multi-modal microscopic imaging on a smartphone and OLED display illumination	Pabitra Nath and Diganta Rabha	08-07-2022
13	202031039202	Development of low fat baked snacks using de-oiled soya flour	Ayan Bhattacharjee, Devesh Kumar and Laxmikant S. Badwaik	11-03-2022
14	202031002271	Removal of arsenic from ground water by capsule technique.	Chiranjeev Bezbaruah, Parag Nath and Robin Kumar Dutta	23-07-2021
15	201911027455	Aptamers against phospholipase A2 in snake Venom and uses thereof	Tarun Kumar Sharma, Anjali Anand, Robin Doley	20-08-2021

16	202031000071	An improved iron fortification technique for fortification of rice using cold plasma	Poonam Mishra and Kumudhini Akasapu	02-07-2021
17	201931049269	An EMG based Prosthetic Hand Controller for Real Time Grasping realizing Neuromuscular Constraint	Nayan M. Kakoty, Lakhyajit Gohain	04-06-2021
18	201931020788	Polymer/antibiotic coated Muga (antheraea assamensis) silk suture	Arup Jyoti Choudhury, Gazi Ameen Ahmed, Namita Ojah	28-05-2021
19	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, Zahnapriya Kalita and Sudipta Saikia	12-02-2021
20	201831045155	System for enhancing stability of bicycle by steering-back handle bar automatically	Dilip Dutta, Sudipta Saikia, Zahnapriya Kalita and Arpeeta Saikia	12-02-2021
21	201731009379	Magnetic secondary nanostructure as contrast agent for Magnetic resonance imaging	Pritam Deb and Kausik Saikia	12-02-2021
22	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
23	201931014698	Two dimensional heterostructure based composite films for food packaging	Pritam Deb and Meenakshi Talukdar	16-10-2020
24	201931012050	A continuous jaggery making machine	Mr. Amit Baran and Das Himakshi Baishya	02-10-2020
25	201831038837	Toxins-targeted specific novel anti snake venom	Asish Kumar Mukherjee Aparup Patra, Sumita Dutta, Bhargab Kalita and Abhisekh Chanda	17-04-2020
26	201831010002	Toxin-epitope based detection of species-specific snake envenomation	Asish Kumar Mukherjee and Sumita Dutta	20-03-2020
27	201831009528	A portable optical fiber instrument for instant petrol purity detection	Partha Pratim Sahu	20-09-2019
28	201831009592	Designed 2d graphitic sheet for viscous oil removal using magnet	Pritam Deb and Meenakshi Talukdar	20-09-2019

29	201831009678	Integrated and automated set up for preparation and vending of panipuri	Saurav Jyoti Sarma, Abhijit Nath, Polas Pratim Dutta and Chanddeep Suman Gogoi	20-09-2019
30	201831010001	Synthetic anticoagulant peptides derived from <i>Naja naja</i> snake venom	Asish Kumar Mukherjee and Sumita Dutta	20-09-2019
31	1742/DEL/2013	Multifunctional nanoparticles, methods of synthesis thereof, and methods of biomedical uses thereof.	Pritam Deb and Madhulekha Gogoi	26-07-2019
32	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
33	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
34	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
35	1313/KOL/2015	Anticoagulant actives and synergistic anticoagulant composition and method of producing the same	Ashish Kumar Mukherjee and Debananda Gogoi	01-12-2017
36	201631016888	A Two Way Ratchet	Arup Jyoti Chutia	17-11-2017
37	201631016889	Intelligent Helmet System	Ratul Kumar Baruah, Amit Kumar, Saurav Dutta and Surajit Paul	17-11-2017
38	201631010727	Novel Soil Conditioners	Sanjay Pratihari, Satya Sundar Bhattacharya, Pallabi Das and Kasturi Sarmah	06-10-2017
39	20/KOL/2011	Digital Occupancy Meter for Commercial Passenger Vehicles	Pradyumna Kr. Choudhury	02-09-2017
40	201631006546	A process for manufacture of turmeric powder from raw turmeric rhizomes	Brijesh Srivastava, Baby Z. Hmar and Dipsikha Kalita	01-09-2017
41	201631005351	Casein Nanoparticles for Colon Targeted Controlled Delivery of Biologically Active Agents in Foods	Pallab Kumar Borah and Raj Kumar Duary	18-08-2017

42	675/KOL/2010	Single step process for the synthesis of polyaniline nanofiber reinforced polymer nano composites	Ashok Kumar and Somik Banerjee	02-09-2016
43	1296/KOL/2014	Nanocatalyst for bio oil production	Pritam Deb and Kasmiri Deka	17-06-2016
44	1295/KOL/2014	Mesoporous secondary nanostructures as multifunctional heavy metal scavenger	Pritam Deb, Kakoli Bhattacharya and Devaborniny Parasar	17-06-2016
45	211/KOL/2014	A Synthetic hyperbranched epoxy surgical sealant and a process for preparation thereof.	Niranjana Karak, Saswat Barua and P. Chattapadhyaya	21-08-2015
46	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
47	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, Dhruvjayoti Talukdar, Abul Usmai, Subeer Suhash Majumdar, Susmita Bhattacharya, Suman Dasgupta, Rakesh Kundu, Samir Bhattacharya and Shelley Bhattacharya.	16-11-2012
48	296/DEI/2010	Amla lemon based ready to serve drinks (enriched with polyphenols)	Poonam Mishra	27-04-2012
49	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
50	2132/KOL/2008	Iron removal from water using $\text{HCO}_3^-$ or $\text{CO}_3^{2-}$ salts of $\text{K}^+$ or $\text{Na}^+$ retaining the pH within acceptable limit for drinking	Robin Kumar Dutta, Suresh Kumar Nath and Shreemoyee Bordoloi	25-12-2009
51	1021/KOL/2009	Tender coconut water beverage from coconuts from Assam	Mihir Kanti Chaudhuri, Charu Lata Mahanta and Alak Kumar Buragohain	11-12-2009
52	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

53	522/KOL/2008	A Reduced Size Linearly Tapered 3dB (Half Power Splitter) Multimode Interference (MMI) Coupler	Partha Pratim Sahu	18-09-2009
54	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