

List of the Patent Applications

Sl. No.	Title of the Disclosure	Inventor	Application no.	Filing date	Publication date	Grant no. and date of grant
1.	A process for manufacturing cermet friction materials/composites/brake elements with built in backing plates	P. S. Mishra and Kamlesh Chandra MMED	2420/Del/2006	07.11.2006	16.05.2008	IP 262314, Dt. 13.08.2014
2.	Iron based/copper-based cermet friction materials/composites/brake elements with built-in backing plates	P. S. Mishra , Kamlesh Chandra and Lenin Singaravelu MMED	2421/Del/2006	07.11.2006	05.09.2008	IP 260479, Dt. 30.04.2014
Year 2006	2					
3.	An improved process for preparation of magnesium based composite and an improved magnesium based in-situ composite	S. Ray , B. S. S. Daniel and D. Sivalingappa MMED	1384/Del/2007	28.06.2007	16.01.2009	IP 261746, Dt. 11.07.2014
Year 2007	1					
4.	Novel 2,4, m-Nitroaniline doped PES and an optically active guest-host polymer	Y. S. Negi , Chandra Vishwa Shanthi and R.C. Aiyer DPT	1083/Del/2008	28.04.2008	06.05.2016	IP 296441, Dt. 02.05.2018
5.	A novel m-Nitroaniline doped PES and optically active guest host polymer	Y. S. Negi , Chandra Vishwa Shanthi and R. C. Aiyer DPT	1084/Del/2008	28.04.2008	06.05.2016	IP 305837, Dt. 17.01.2019
6.	A process for dispersion of broken agglomerates of nanoparticles in viscous fluid	P. K. Ghosh , S. Ray and Sudipta Halder MMED	1554/Del/2008	27.06.2008	31.08.2016	IP 292158, Dt. 25.01.2018
7.	A process for controlling metal foam structure to obtain high strength	S. Ray and B. S. S. Daniel MMED	2166/Del/2008	16.09.2008	02.04.2010	
Year 2008	4					
8.	System and method for reliable and flexible mobile agent computing	Kumkum Garg ECE	136/KOL/2009	27.01.2009	01.05.2009	IP 261138, Dt. 06.06.2014
9.	A method of joining of bulk metallic materials by microwave hybrid heating	Apurbba Kumar Sharma , Pradeep Kumar and M. Srinath MIED	1994/Del/2009	24.09.2009	01.04.2011	IP 309058, Dt. 12.03.2019

Year 2009	2					
10.	A method and a device to improve the strength characteristics of pond ash deposits	B.K. Maheshwari , Swami Saran, D. K. Paul, S. Mukherjee, M. L. Sharma , Subodh Jain, H. P. Singh and N. P. Aterkar EQD, CED	142/Del/2010	25.01.2010	29.07.2011	
11.	Manufacturing process for metallo-ceramic brake pads/disc for stators/rotors using powder perform forging	P. S. Mishra and Kamlesh Chandra MMED	151/Del/2010	27.01.2010	29.07.2011	IP 324854, Dt. 11.11.2019
12.	Aluminium powder based stator brake pads/disc for light, medium and heavy duty automobiles and the materials thereof	P. S. Mishra , Kamlesh Chandra and A. K. Chaturvedi MMED	152/Del/2010	27.01.2010	29.07.2011	
13.	High Temperature oxidation resistant glassy coating	P. S. Mishra and Kamlesh Chandra MMED	153/Del/2010	27.01.2010	29.07.2011	
14.	A method of preparing a high energy density silicon graphite anode material and a high energy density silicon-graphite material	S. Ray , Anjan Sil and Kuldeep Rana MMED	392/Del/2010	22.02.2010	26.08.2011	
15.	A method of cladding/coating metallic powder on metallic substrate by microwave irradiation	Apurbba Kumar Sharma and Dheeraj Gupta MIED	527/Del/2010	09.03.2010	16.09.2011	IP 306568, Dt. 30.01.2019
16.	A method for improving the liquefaction resistance of pond ash	B. K. Maheshwari , Swami Saran, D. K. Paul, S. Mukherjee, M. L. Sharma , Subodh Jain, H.P. Singh and N. P. Aterkar EQD, CED	840/Del/2010	06.04.2010	02.03.2012	
17.	Single seam multilayer narrow gap pulse current gas metal arc welding	P. K. Ghosh and Banshi Prasad Agarwal MMED	1023/Del/2010	29.04.2010	26.10.2012	
18.	A Novel phytase and process for enhancing phytase titre	Sanjoy Ghosh and Richa Rani BSBE	1024/Del/2010	29.04.2010	26.10.2012	
19.	Processing of alumina nano-particle reinforced cast metal matrix composite	S. Ray , S. Ghanaraja and Sumeer K. Nath	1172/Del/2010	19.05.2010	02.11.2012	

		MMED				
20.	Gas nitrided titanium-aluminium and aluminium chromium based coatings on ASTM-SA210 grade A-1 steel	Satya Prakash , D. Puri, Buta Singh Sandhu and Vikas Chawla MMED	1235/Del/2010	28.05.2010	02.03.2012	
21.	Gas nitrided aluminium-chromium coating on ASTMSA213-T-22 boiler steel	Satya Prakash , D. Puri, Vikas Chawla and Buta Singh Sandhu MMED	1236/Del/2010	28.05.2010	02.03.2012	
22.	A process for coating materials with Titanium Aluminium based gas nitrided coatings	Satya Prakash , D. Puri, Vikas Chawla and Buta Singh Sandhu MMED	1237/Del/2010	28.05.2010	02.03.2012	
23.	A process for coating materials with Aluminium Chromium based gas nitrided coatings	Satya Prakash , D. Puri, Vikas Chawla and Buta Singh Sandhu MMED	1238/Del/2010	28.05.2010	02.03.2012	
24.	Preparation of nanoparticles from corn cobs	Y. S. Negi , J. S. Upadhyay and Samit Kumar DPT	1937/Del/2010	17.08.2010	25.10.2013	
Year 2010	15					
25.	A natural polymer abrasive media for the abrasive flow machining and a process for preparation thereof.	Apurbba Kumar Sharma , Pradeep Kumar, G. Venkatesh and Rajesha S. MIED	1349/Del/2011	09.05.2011	16.11.2012	IP 283675, Dt. 29.05.2017
26.	A novel process for the synthesis of vesicular acetylcholine transporter inhibitors vesamicol, and its analogues	Rama Krishna Peddinti and Jyoti Agarwal CY	2567/Del/2011	07.09.2011	08.03.2013	IP 296060, Dt. 24.04.2018
27.	A process for enantioselective synthesis of vesicular acetylcholine transporter inhibitors vesamicol and its analogues	Rama Krishna Peddinti and Jyoti Agarwal CY	3087/Del/2011	31.10.2011	27.09.2013	IP 290258, Dt. 04.12.2017
28.	An improved ultrasonic abrasive flow machining and a advice therefor	Apurbba Kumar Sharma , Pradeep Kumar and Rajesha S. MIED	3578/Del/2011	09.12.2011	14.06.2013	IP 358173, Dt. 10.02.2021
Year 2011	4					

29.	Interface for robotic total station and computer system with embeddable instruction set	Sushil Kumar and Kamal Jain CED	161/DEL/2012	19.01.2012	12.06.2015	
30.	An integrated cooling system and hydrogen processing for power generation plants	Gyan Ranjan Biswal, Rudra Prakash Maheshwari and Mohan Lal Dewal EE	689/DEL/2012	12.03.2012	21.08.2015	IP 348978, Dt. 09.10.2020
31.	Method of fabrication of dual/asymmetric dielectric constant spacers in multigate fet devices	S. K. Manhas , Anand Bulusu and Saurabh Kumar Nema ECE	3164/Del/2012	10.10.2012	15.08.2014	IP 406675, Dt. 15.09.2022
Year 2012	3					
32.	Laser Abney Level	Kamal Jain CED	171/DEL/2013	23.01.2013	22.08.2014	
33.	Development of nanocomposite microwave absorbing paint in the frequency range of 8- 18 GHz	Vijaya Agrawala , S. Ray and Dharmendra Singh MMED, ECE	553/DEL/2013	26.02.2013	29.08.2014	IP 413060, Dt. 30.11.2022
34.	Upflow septic tank	A. A. Kazmi , Sudipta Sarkar and Meena Kumari Sharma CED	3635/Del/2013	13.12.2013	20.06.2014	IP 395747, Dt. 28.04.2022
35.	A novel system and method providing advanced web search for multimedia contents	Sandeep Kumar , Shikhar Srivastav and Kuldeep Kumar CSE	3815/DEL/2013	30.12.2013	03.07.2015	IP 403126, Dt. 05.08.2022
Year 2013	4					
36.	A process for power forging of metals/alloys to obtain full density products	Ujjwal Prakash and V. V. Dabhade MMED	3270/Del/2015	12.10.2015	14.04.2017	IP 406547, Dt. 14.09.2022
37.	A novel system and method for automatic generation of Wikipedia articles	Sandeep Kumar , Vikrant Yadav, Faisal Khan, Anshul Singhal, Devendra Pratap Singh and Kuldeep Kumar CSE	3280/DEL/2015	13.10.2015	21.04.2017	IP 556573, Dt. 19.12.2024
Year 2015	2					
38.	A system and method of micro-drilling with microwaves through metallic concentrator	Apurbba Kumar Sharma MIED (with BARC)	201621004759	10.02.2016	29.04.2016	IP 426457, Dt. 23.03.2023

39.	A Novel fractionating hydrolysis process for production of fermentable sugar from lignocellulosic biomass of Kans grass (Saccharum Spontaneum)	S. Ghosh, C. B. Majumdar and Mr. L.K Singh BSBE, ChED	201611005358	16.02.2016	18.08.2017	IP 419371, Dt. 27.01.2023
40.	A method for inhibiting gas hydrate formation by a novel green kinetic inhibitor	Amit Arora and Chandrajit Balomajumder ChED	201611007370	02.03.2016	08.09.2017	IP 311303, Dt. 16.04.2019
41.	A method of differential relay for power transformer protection using digital signal processor	N. P. Padhy EE with NIT Tiruchilappali	201641012033	05.04.2016	27.10.2017	IP 380676, Dt. 28.10.2021
42.	A novel bio reactor system for solid state fermentation and process of operation thereof	Sanjoy Ghosh, Richa Rani and Sidharth Arora BSBE	201611020038	11.06.2016	15.12.2017	IP 517060, Dt. 29.02.2024
43.	A process for the synthesis of luminescent citrate stabilized gold nanoparticles with high stokes shift	Kalyan Kumar Sadhu and Meenaxi CY	201611022462	30.06.2016	05.01.2018	IP 471096, Dt. 21.11.2023
44.	Gas metal arc welding torch head for ultra narrow gap welding of thick section	P. K. Ghosh and Ramkishor MMED	201611033570	30.09.2016	06.04.2018	IP 517902, Dt. 29.02.2024
45.	Scaffold for wound healing and/or other tissue engineering applications	N. C. Mishra PPE	201611036300	24.10.2016	27.04.2018	IP 555346, Dt. 28.11.2024
46.	A device of In-situ microwave casting of metals and alloys	Apurbba Kumar Sharma, Radha R. Mishra, Mohit Choudhary and Saurabh Puri MIED	201611037834	05.11.2016	11.05.2018	IP 521301, Dt. 07.03.2024
47.	Single stage boost inverter	M. K. Pathak EE	201641038706	12.11.2016	30.12.2016	
48.	A flexible device for multiple ultrasonic machining operations	Akshay Dvivedi, Apurbba Kumar Sharma and Manjot Singh Cheema MIED	201611041640	06.12.2016	08.06.2018	IP 483135, Dt. 15.12.2023
Year 2016	11					
49.	An electrode for removal of debris during electric discharge machining	Inderdeep Singh and Ravinder Kumar	201711005674	17.02.2017	24.08.2018	IP 478226, Dt. 07.12.2023

		MIED				
50.	An Energy Efficient On-site Black Water Treatment System	Pradeep Kumar and Pramod Agarwal CED, EE	201611041225	02.03.2017	07.09.2018	IP 358538, Dt. 12.02.2021
51.	An automatic flushing and floor cleaning system	Pramod Agrawal EE	201611041368	02.03.2017	07.09.2018	IP 459071, Dt. 13.10.2023
52.	Magnetic-field actuated hybrid nanofiber scaffold and apparatus for 4D tissue engineering	P. Gopinath and S. Uday Kumar BSBE	201711007507	03.03.2017	07.09.2018	IP 431344, Dt. 09.05.2023
53.	Earthquake resistant viscoelastic energy dissipator link elements	Pankaj Agarwal and Amit Goyal EQD	201711014897	27.04.2017	02.11.2018	IP 430618, Dt. 28.04.2023
54.	Copper-zinc-magnesium catalyst for highly selective conversion of glycerol to 1,2-propanediol in liquid phase	Prakash Biswas , Al Ameen A, Smita Mondal, Satayanarayana M. Pudi and Nitin Naresh Pandhare ChED	201711017272	17.05.2017	15.03.2019	IP 373960, Dt. 06.08.2021
55	A system method of synthesis of gold-iron oxide and gold zinc oxide nanocomposites in aqueous medium at room temperature	Kalyan Kumar Sadhu and Shahbaz Ahmad Lone CY	201711024170	10.07.2017	11.01.2019	IP 383507, Dt. 02.12.2021
56.	Registered Design Cooked food preservative box	Anurag Kulshreshtha PPE	295421	10.07.2017	30.08.2019	295421, Dt. 29.07.2019
57.	Orthopaedic metallic implant for sustained drug release	Debrupa Lahiri , Partha Roy and Manoj Kumar Rangaswamy MMED, BSBE	201711024735	13.07.2017	18.01.2019	IP 467777, Dt. 09.11.2023
58.	A sealant composition	Gaurav Manik , Nityanshu Kumar, Shubham Mireja and Alok Kumar Yadav PPE	201721028537	10.08.2017	10.08.2018	IP 352393, Dt. 26.11.2020
59.	A process of preparing a sealant composition	Gaurav Manik , Nityanshu Kumar, Shubham Mireja and Alok Kumar Yadav	201721028538	10.08.2017	10.08.2018	IP 352006, Dt. 23.11.2020

		PPE				
60.	High speed slurry pot tester apparatus	B. K. Gandhi MIED	201711029367	18.08.2017	22.02.2019	IP 461869, Dt. 25.10.2023
61.	Belly and waist fitness exercising equipment device	Rajib Lochan Dhar DoMS	201711032633	14.09.2017	06.10.2017	IP 451499, Dt. 14.09.2023
62.	Dissimilar metallic coating on steel by activated diffusion	B. V. Manoj Kumar , P. K. Ghosh and Sandan Kumar Sharma MMED	201711033207	19.09.2017	22.03.2019	IP 390919, Dt. 01.03.2021
63.	Morphological change from silicon carbide to silicon nitride	B. V. Manoj Kumar and V. M. Rajavel Muthaiah MMED	201711034924	03.10.2017	05.04.2019	IP 362136, Dt. 19.03.2021
64.	Synthesis of iron oxide nanohybrids (maghemite phase) employing raw spent wash from distillery industry as a precursor material	Himanshu Joshi , Anil Kumar and Ajay Kumar HYD, CY	201711035146	04.10.2017	19.07.2019	IP 340010, Dt. 30.06.2020
65.	A process for recovery of potash from biomethanated distillery spent wash	Himanshu Joshi and Sunil Yadav HYD	201711035147	04.10.2017	07.06.2019	IP 383019, Dt. 29.11.2021
66.	Friction based energy dissipation device for seismic protection	Manish Shrikhande EQD	201711036003	10.10.2017	14.06.2019	IP 471575, Dt. 22.11.2023
67.	Nut shaped Li_3VO_4 having hierarchical mesoporous structure and its method of synthesis	Tapas Kumar Mandal , Anjan Sil , Paritosh Mohanty and Nishant Gautam CY, MMED	201711038135	27.10.2017	03.05.2019	IP 382774, Dt. 26.11.2021
68.	A method for screening NSP1 capping enzyme inhibitors of chikungunya	Shailly Tomar , Pravindra Kumar and Ramanjit Kaur BSBE	201711039736	08.11.2017	10.05.2019	IP 429557, Dt. 20.04.2023
69.	A wrist rehabilitation and exercising device	Rajib Lochan Dhar DoMS	201711042798	29.11.2017	22.12.2017	IP 499721, Dt. 16.01.2024

70.	Navigation system for an autonomous terrestrial vehicle	Jayanta Kumar Ghosh and Sharwan Ram CED	201711043997	07.12.2017	14.06.2019	IP 439895, Dt. 21.07.2023
71.	Registered Design Unit dose device	Anurag Kulshreshtha, Yuvraj Singh Negi and Raj Kumar PPE	300497	19.12.2017	07.06.2019	300497, Dt. 04.06.2019
72.	Registered Design Piston type unit dose device	Anurag Kulshreshtha, Yuvraj Singh Negi and Raj Kumar PPE	300498	19.12.2017	11.10.2019	300498, Dt. 04.06.2019
Year 2017	24					
73.	Offset GPS	Kamal Jain CED	201811000099	02.01.2018	19.01.2018	IP 497623, Dt. 11.01.2024
74.	Method for production of biodiesel from chlorella sp.	B. R. Gurjar, Vikas Pruthi and Richa Katiyar CED, BSBE, CoEDMM	201811001749	16.01.2018	19.07.2019	IP 551791, Dt. 01.10.2024
75.	Universal RTK system	Adrish Kumar Mullick and Kamal Jain CED	201811002449	22.01.2018	27.04.2018	IP 531081, Dt. 29.03.2024
76.	Intelligent rover system	Adrish Kumar Mullick and Kamal Jain CED	201811005907	16.02.2018	09.03.2018	
77.	Ankle Rehabilitation Device	Rajib Lochan Dhar DoMS	201811006292	19.02.2018	09.03.2018	IP 501398, 19.01.2024
78.	Smart intruder surveillance and security system	Kamal Jain CED	201811008329	07.03.2018	16.03.2018	
79.	Advance Universal RTK system	Kamal Jain CED	201811008489	08.03.2018	16.03.2018	
80.	Radio boosted RTKS system	Kamal Jain CED	201811009821	17.03.2018	06.04.2018	

81.	Activating flux coating for symmetric weld bead profile	D. K. Dwivedi and Ravi Shanker Vidyarthi MIED	201811011433	27.03.2018	04.10.2019	IP 393302, Dt. 29.03.2022
82.	Functionalized membrane-based process for selective isolation and enrichment of milk fat globules (MFGs)	Ambatipudi Srinivas Kiran , Saurav Datta and Aparna Verma BSBE	201811013231	06.04.2018	11.10.2019	IP 357223, Dt. 29.01.2021
83.	Knee Rehabilitation Device	Rajib Lochan Dhar DoMS	201811013850	11.04.2018	04.05.2018	IP 412703, Dt. 28.11.2022
84.	A novel test stand and method to measure the burning rate of flammable liquids	K.B. Mishra and Ankit Sharma MIED	201811016328	01.05.2018	08.11.2019	IP 531620, Dt. 03.04.2024
85.	Location based video synchronizer	Kamal Jain CED	201811016706	03.05.2018	22.06.2018	IP 514488, Dt. 23.02.2024
86.	Asparaginase and its variants	Naveen Kumar Navani and Tamoghna Ghosh BSBE	201811019299	23.05.2018	29.11.2019	IP 565190, Dt. 16.04.2025
87.	An anti-viral composition of tamarind Chi-like lectin and uses thereof	Shailly Tomar , Pravindra Kumar , Ramanjit Kaur, Neetu Chaudhary and Vedita Anand Singh BSBE	201811019298	23.05.2018	29.11.2019	IP 413264, Dt. 01.12.2022
88.	Time interleaved digital transmitter using multi-level digital quantization	Karun Rawat and Nishant Kumar ECE	201811021993	12.06.2018	13.12.2019	IP 454291, Dt. 25.09.2023
89.	Chikungunya virus protease inhibitors and used thereof	Shailly Tomar , Pravindra Kumar , Harvijay Singh and Rajat Mudgal BSBE	201811022065	13.06.2018	07.08.2020	IP 536426, Dt. 01.05.2024
90.	A method of synthesis of lithium vanadate on graphene oxide	Tapas Kumar Mandal and Nishant Gautam CY	201811022066	13.06.2018	07.08.2020	IP 437948, Dt. 10.07.2023
91.	Abdomen fitness device	Rajib Lochan Dhar	201811022278	14.06.2018	22.06.2018	IP 462281, Dt. 26.10.2023

		DoMS				
92.	A virus removal/recovery membrane and its preparation method	Saurav Datta , Ayushi Agarwal and Anju Kumari BSBE	201811022826	19.06.2018	20.12.2019	IP 352016, Dt. 23.11.2020
93.	A bioconversion process to produce bioactive Cordyceps species from food waste	Ambatipudi Srinivas Kiran and Aparna Verma BSBE	201811023344	22.06.2018	27.12.2019	IP 434095, Dt. 08.06.2023
94.	Menstrual cramp and pelvic floor rehabilitation and fitness device for men and women	Rajib Lochan Dhar DoMS	201811026559	17.07.2018	03.08.2018	IP 463745, Dt. 30.10.2023
95.	A system and method for simultaneous removal of arsenic and fluoride from contaminated water using novel hybrid adsorbent.	Prasenjit Mondal and Vineet Kumar Rathore ChED	201811026603	17.07.2018	24.01.2020	IP 367902, Dt. 28.05.2021
96.	Bactericidal metal nanoparticles and its method of preparation	N. Siva Mohan Reddy and Utsav Dalal ChED	201811026558	17.07.2018	24.01.2020	IP 562080, Dt. 07.03.2025
97.	Tyre grid reinforced embankment of pozzolanic materials	Vishwas A. Sawant CED	201821028112	26.07.2018	10.08.2018	
98.	Mechanical safety device for thread failure in power screw based heavy lifts	Apurbba Kumar Sharma , Nitesh Arora and Prabh Pal Singh Seerha MIED	201811028210	26.07.2018	31.01.2020	IP 540147, Dt. 30.05.2024
99.	A modified ceramic shell/body and its method thereof for investment casting process	D. Benny Karunakar and Sanjay Kumar MIED	201811029896	09.08.2018	14.02.2020	IP 434139, Dt. 08.06.2023
100.	Sliding mass floor system for seismic response control	Manish Shrikhande EQD	201811031019	20.08.2018	21.02.2020	IP 428890, Dt. 13.04.2023
101.	Peristaltic pump with automated gear assembly fabrication and its method	Soumitra Satpathi and Ankit Kumar PHY	201811031020	20.08.2018	21.02.2020	IP 471302, Dt. 21.11.2023

102.	A method for synthesis of nitrogen-doped reduced graphene oxide (N-RGO) for high performance supercapacitor	Anil Kumar and Sahil Thareja CY	201811031021	20.08.2018	03.07.2020	IP 391742, Dt. 11.03.2022
103.	Stationary shoulder friction stirs welding tool with extruded material breaker	Dheerendra Kumar Dwivedi and Sunil Kumar Sinhmar MIED	201811032273	29.08.2018	06.03.2020	IP 432021, Dt. 17.05.2023
104.	Highly-directional compact semicircular angular-phased antenna array in 9.35GHZ-42.89 GHz	Amalendu Patnaik and Tushar Goel ECE	201811035222	19.09.2018	20.03.2020	IP 430540, Dt. 28.04.2023
105.	Method of edge preservation in images	Kamal Jain CED	201841036623	28.09.2018	05.10.2018	
106.	Adaptive shape control mechanism for planar membrane structure	S. H Upadhyay, Satish Kumar and Kripa S. Singh MIED (With ISRO)	201811037750	05.10.2018	10.04.2020	IP 470584, Dt. 20.11.2023
107.	Back, Waist, Liver and kidney Rehabilitation fitness Device	Rajib Lochan Dhar DoMS	201811038787	12.10.2018	26.10.2018	IP 489724, Dt. 27.12.2023
108.	Reconfigurable concurrent multi-band digital transmitter using delta sigma modulator and augmented shaping	Karun Rawat and Nishant Kumar ECE	201811038732	12.10.2018	17.04.2020	IP 465802, Dt. 04.11.2023
109.	An improved ferromanganese slag to oxidize arsenite and removal of arsenic from water	Abhijit Maiti and Nishant Jain PPE	201811043116	16.11.2018	14.08.2020	IP 368154, Dt. 31.05.2021
110.	Process for synthesis nitrogen enriched high surface area nanoporouspolytriazines and their multi-functional applications	Paritosh Mohanty and Monika Chaudhary CY	201811045502	03.12.2018	12.06.2020	IP 440279, Dt. 24.07.2023
111.	Internal combustion engines with double acting piston arrangement	Arup Kumar Das, Rakesh Prakash Gakkhar and Prabh Pal Singh Seerha MIED	201811045503	03.12.2018	12.06.2020	IP 519569, Dt. 05.03.2024
Year 2018			39			
112.	Synthesis of N&P enriched hybrid material made from cyclophosphazene and 2,6-diaminopyridine for supercapacitor and gas sorption applications	Paritosh Mohanty and Nisha Dhiman CY	201911002957	24.01.2019	03.09.2021	IP 439650, Dt. 20.07.2023

113.	RTK drone	Kamal Jain CED	201911003508	29.01.2019	22.02.2019	
114.	A system and method for through wall imaging	Dharmendra Singh , Bambam Kumar and Smitha Puthucheri ECE	201911004784	06.02.2019	07.08.2020	IP 482215, Dt. 13.12.2023
115.	A biodegradable skin scaffold for healing deep wounds	Debrupa Lahiri , Partha Roy and Swati Halder MMED, BSBE, CON	201911007235	25.02.2019	28.08.2020	IP 410999, Dt. 04.11.2022
116.	Cost effective solution for cranking of diesel generator in low power autonomous DC micro grid	Sanjeev Pannala, N. P. Padhy and Pramod Agrawal EE	201911007804	28.02.2019	04.09.2020	IP 451190, Dt. 13.09.2023
117.	A method for producing synthesis gas from biomass residues	Basheshwer Prasad ChED	201911009915	14.03.2019	15.01.2021	
118.	A stress relieving game equipment	Rajib Lochan Dhar DoMS	201911013641	04.04.2019	03.05.2019	IP 538936, Dt. 22.05.2024
119.	NPA: A multilevel high power factor AC-DC converter	Pramod Agrawal , Naveen Yalla and Narendra Babu Avalamandu EE	201911014389	10.04.2019	16.10.2020	IP 471267, Dt. 21.11.2023
120.	Baseband controlled linearization of High Power Amplifiers	Meenakshi Rawat and Girish Chandra Tripathi ECE	201911014390	10.04.2019	16.10.2020	IP 474568, Dt. 29.11.2023
121.	Single stranded nucleotides sequences specific for binding to Acinetobacter baumannii and uses thereof	Naveen K Navani , Shahnawaz A. Baba and Piyush Kumar BSBE	201911016947	29.04.2019	06.11.2020	IP 448501, Dt. 30.08.2023
122.	A device for pressurized multiphase flow during electrochemical discharge machining process	Akshay Divedi and Rajendra Kumar MIED	201911017291	01.05.2019	06.11.2020	IP 456238, Dt. 03.10.2023
123.	Probiotic edible film and method of its preparation	Naveen Kumar Navani and Anupama Semwal	201911018180	07.05.2019	13.11.2020	

		BSBE				
124.	A System and Method for Energy Efficient Starting of Pump Turbine Equipped with Doubly Fed Induction Machine	Thanga Raj Chelliah , Anto Joseph, Raja Singh R, Karthik D and Deepak Khare WRDM	201911019294	15.05.2019	20.11.2020	IP 450798, Dt. 12.09.2023
125.	CMOS Compatible Micro-machined Piezoelectric Energy Harvester	Sanjeev Manhas , Sandeep Singh Chauhan and M.M. Joglekar ECE, MIED	201911020224	22.05.2019	27.11.2020	IP 475536, Dt. 30.11.2023
126.	Methods and compositions for identification of novel anti-persister activity of GRAS compounds	Ranjana Pathania , Timsy Bhando and Ananth Casius BSBE	201911023795	15.06.2019	18.12.2020	IP 424983, Dt. 14.03.2023
127.	A single stage multi-spectral image and video dehazing system and its method thereof	Brajesh Kumar Kaushik , Gaurav Sharma and Rahul Kumar ECE	201911024268	19.06.2019	25.12.2020	IP 481812, Dt. 13.12.2023
128.	A hybrid iron sulphide impregnated anion exchanger (HISIIX) for selective removal of hexavalent chromium from contaminated water	Sudipta Sarkar and Laiju A. R CED	201911024269	19.06.2019	25.12.2020	IP 393640, Dt. 30.03.2022
129.	A one pot, two -step electrochemical method for the synthesis of graphene oxide and graphene oxide metal composite	V. C. Srivastava and Navneet Kumar ChED	201911026565	03.07.2019	08.01.2021	IP 457738, Dt. 10.10..2023
130.	Bioengineered regenerative scaffold for burn wound healing	Debrupa Lahiri , Partha Roy , Swati Haldar, Isha Goel, Souvik Ghosh and Viney Kumar BSBE, MMED, CON	201911026834	04.07.2019	08.01.2021	IP 564020, Dt. 27.03.2025
131.	Polyclonal human LINE-1 ORF2p antibody and method thereof	Prabhat Kumar Mandal , Koel Mukherjee and Debpali Sur BSBE	201911028257	15.07.2019	22.01.2021	IP 428643, Dt. 10.04.2023
132.	Biosensor for detecting cancer using exhaled breath	Indranil Lahiri , Debrupa Lahiri , Partha Roy , Siddharth Sharma and Swati Haldar BSBE, CON, MMED	201911030871	31.07.2019	05.02.2021	IP 432433, Dt. 22.05.2023

133.	Electromagnetic radiation reduction box (EMR2B) in the communication bands (0.5 to 3.0GHz)	Dharmendra Singh , Varsha Mishra and Smitha Puthucheri ECE	201911030845	31.07.2019	05.02.2021	IP 473572, Dt. 28.11.2023
134.	A process for immobilization of metal oxide/ metal hydroxide nanofillers in paper matrices by a rapid microwave assisted method.	Paritosh Mohanty , Raeesh Muhammad and Anuj Rawat CY	201911031524	05.08.2019	12.02.2021	IP 423481, Dt. 28.02.2023
135.	A method of synthesizing pure phase sodium manganese silicate (Na ₂ MnSiO ₄)	Yogesh Sharma and Harishpal Kumar PHY	201911032658	13.08.2019	19.02.2021	IP 398875, Dt. 09.06.2022
136.	Chikungunya virus titration and detection kit	Shailly Tomar , Parvindra Kumar , Neetu, Vedita Anand Singh and Shweta Choudhary BSBE	201911035044	30.08.2019	27.08.2021	IP 562959, Dt. 20.03.2025
137.	Cell cytotoxicity assay device and method of manufacturing thereof	Soumitra Satapathi , Ankit Kumar, Partha Roy and Neeladrisingha Das BSBE, PHY, CON	201911036596	11.09.2019	12.03.2021	IP 536895, Dt. 06.05.2024
138.	Wound healing materials in the form of powered particles, get and porous sheet	N. C. Mishra , Hemant Singh and Shiv Dutt Purohit PPE	201911037476	17.09.2019	21.05.2021	IP 458158, Dt. 11.10.2023
139.	Development of porous alumina film on conducting glass substrate to enhance the voltage of silicon based thermophotovoltaic devices	Soumya Shankar Ghosh and Anjan Sil MMED	201911038839	26.09.2019	02.04.2021	IP 448162, Dt. 29.08.2023
140.	A Therapeutic composition for the treatment of resistant and persistent bacterial infections	Ranjana Pathania and Timsy Bhandu BSBE	201911043932	30.10.2019	03.09.2021	IP 501363, Dt. 19.01.2024
141.	A lifetime enhancer for non-rechargeable battery powered wireless sensor node	Pyari Mohan Pradhan and Ritesh Garg ECE	201911044035	31.10.2019	07.05.2021	IP 501093, Dt. 19.01.2024
142.	An adaptive feedback controlled electric hydro dissection device	Akshay Divvedi and Rajendra Kumar Arya MIED	201911044036	31.10.2019	07.05.2021	IP 468378, Dt. 10.11.2023

143.	A novel electrode composite for high power and high energy application in rechargeable lithium-ion battery	Anjan Sil and Hari Raj MMED	201911044037	31.10.2019	07.05.2021	IP 400066, Dt. 27.06.2022
144.	A small sized reactor to produce biodiesel from nonedible oil	Raj Kumar Verma, Sumana Ghosh and P. Mondal ChED	201911044808	05.11.2019	20.08.2021	IP 496396, Dt. 09.01.2024
145.	A system and method of simultaneous denitrification and oxidation of industrial wastewaters	V. C. Srivastava and Rohit Chauhan ChED	201911046517	15.11.2019	21.05.2021	IP 438774, Dt. 13.07.2023
146.	Modification of chemical composition and properties of A-TIG weld joints of dissimilar steels	D. K. Dwivedi , Anup Kulkarni, Pratishtha and Anagdha MIED	201911046518	15.11.2019	21.05.2021	IP 456846, Dt. 05.10.2023
147.	A system and method for the detection of physical exhaustion level of human beings	Arup Kumar Das , Vikas Kannojiya and Gunipe Prasanth Kumar MIED	201911047764	22.11.2019	28.05.2021	IP 547144, Dt. 06.08.2024
148.	An antiviral composition against alphaviruses	Shailly Tomar , Rajat Mudgal and Aakriti Dubey BSBE	201911049130	29.11.2019	03.09.2021	IP 522710, Dt. 09.03.2024
149.	An in-situ polymer-based drug loaded hydrogel system and method thereof	N. C. Mishra , Indus Yadav, Shiv Dutt Purohit, Hemant Singh and Sakchi Bhushan PPE	201911049671	03.12.2019	03.09.2021	IP 406639, Dt. 14.09.2022
150.	Add-on device and its method to prevent breaker-failure mal-operations	Bhaves R. Bhalja and Soumitri Jena EE	201911053612	24.12.2019	25.06.2021	IP 538149, Dt. 15.05.2024
Year 2019	39					
151.	A hydrogel based abrasive media for abrasive flow machining and process of preparation thereof	Varun Sharma , Pradeep Kumar and Nitin Dixit MIED	202011001189	10.01.2020	16.07.2021	IP 447268, Dt. 25.08.2023
152.	3-D Porous scaffolds for bone tissue engineering	P. Gopinath and Sarim Khan BSBE, CON	202011003365	24.01.2020	30.07.2021	IP 486957, Dt. 21.12.2023

153.	Low-cost, autoclavable and multifunctional biomaterial based nanofibrous permeable hanging cell culture insert and fabrication thereof	P. Gopinath , Vinay Kumar and Soumyadeep Basak BSBE	202011003619	27.01.2020	30.07.2021	IP 527760, Dt. 15.03.2024
154.	Impedimetric sensors for cytotoxicity analysis	Sanjeev Manhas , Rangadhar Pradhan, P. Gopinath and Ashish BSBE, ECE, CON	202011003839	29.01.2020	30.07.2021	IP 447915, Dt. 29.08.2023
155.	A device for rotatory disc grinding with adaptive feeding for electrochemical discharge machining process and a method thereof	Akshay Dvivedi , Rajendra Kumar Arya and Tarlochan Singh MIED	202011004766	04.02.2020	06.08.2021	IP 479784, Dt. 09.12.2023
156.	Dielectric elastomer based variable focal length reflector	Manish M. Joglekar , Katik Kashyap, Nitesh Arora, Chinmay Jivani, Parmod Kumar and Atul Kumar Sharma MIED	202011005805	11.02.2020	13.08.2021	IP 470274, Dt. 18.11.2023
157.	An ultrafast resistive type humidity sensor based on nanohybrids	Atul Kumar, Anil Kumar and G. D. Varma CY, PHY, CON	202011007304	20.02.2020	11.06.2021	IP 488912, Dt. 26.12.2023
158.	Real time in-situ single optical density probe for biomass, substrate and product dynamics measurements in photobioreactor/bioreactor	Sanjoy Ghosh and Shailendra Singh Khichi BSBE	202011007734	24.02.2020	27.08.2021	IP 551023, Dt. 25.09.2024
159.	A system and method for seismic retrofitting of severely damaged reinforced concrete frame buildings using coupler-box section	Pankaj Agrawal , K. V Naveen Kumar and R. Siva Chidambaram EQD	202011007735	24.02.2020	27.08.2021	IP 508358, Dt. 08.02.2024
160.	A four valve for directional control and mixing of fluids	A. K. Sharma , M. Shah Faizan, Radha Raman Mishra and T. R. Chelliah MIED, WRDM, DIC	202011009048	03.03.2020	10.09.2021	IP 459108, Dt. 16.10.2023
161.	Fluorescence based cost-effective rapid diagnostic kit for detection of cancer biomarkers	P. Gopinath , Ashish and Rangadhar Pradhan BSBE, CON	202011010110	09.03.2020	10.09.2021	IP 428729, Dt. 11.04.2023
162.	Method and apparatus for testing fire behaviour of façade materials	K. B. Mishra and Ankit Sharma	202011010546	12.03.2020	17.09.2021	IP 469636, Dt. 16.11.2023

		MIED				
163.	A low cost portable mechanical ventilator with feedback control and respiratory monitoring with remote interface.	Akshay Drivedi , Arup Kumar Das , Maran R., Lokesh Rohilla, Darshan M B, Avik Saha, Vikas Kannojiya, Tanmay Tiwari, Anuj Vats, Sandeep Kumar, Subramanian G., Navin Chandra Rai, Gajanand Saini, Yashpal Singh, Shahwez, Debendra Kumar Tripathi and Abhishek Sehgal MIED, EE, ECE, Tinkering Lab and AIIMS (Rishikesh)	202011015014	04.04.2020	16.09.2022	
164.	A thermal energy storage material using renewable sources and its method of preparation.	Sujay Chattopadhyaya and V. J Reddy PPE	202011016740	18.04.2020	19.03.2021	IP 459239, Dt. 16.10.2023
165.	A synthesis process for the development of calcium silicate hydrate (C-S-H) based concrete hardening accelerator.	Sonalisa Ray , Saikat Das and Sudipta Sarkar CED (with NBCC)	202011017217	22.04.2020	29.10.2021	IP 397480, Dt. 24.05.2022
166.	A tensioning and connecting device for the space-borne membrane reflector antenna.	S. H. Upadhyay and Shinde Swapnil Dipak MIED	202011017218	22.04.2020	29.10.2021	
167.	An enhanced tube with plurality of micro indentations on the inside surface for effective heat transfer.	Arup Kumar Das , Ravi Kumar and M. B. Darshan MIED	202011017219	22.04.2020	29.10.2021	IP 492814, Dt. 01.01.2024
168.	A three terminal lithium ion battery-supercapacitor hybrid system consisting of bimaterial electrode.	Anjan Sil , Sobhit Saxena and Hari Raj MMED	202011017484	23.04.2020	29.10.2021	IP 515661, Dt. 27.02.2024
169.	Polyacrylonitrile-graphene-oxide-silver nanocomposite based fibrous for air purification.	P. Gopinath , Sadasivam Raj Kumar and Abhishek Sharma BT	202011017645	24.04.2020	29.10.2021	IP 539789, Dt. 29.05.2024
170.	Tilt meter with liquid-liquid measuring unit.	M. L. Sharma and Govind Rathore EQD	202011018828	02.05.2020	05.11.2021	IP 489653, Dt. 27.12.2023
171.	A low cost portable mechanical ventilator with feedback control and respiratory monitoring with remote interface.	Akshay Drivedi , Arup Kumar Das , Maran R., Lokesh Rohilla, Darshan M B, Avik Saha, Vikas Kannojiya,	202011019016	04.05.2020	12.11.2021	IP 533904, Dt. 21.04.2024

		Tanmay Tiwari, Anuj Vats, Sandeep Kumar, Subramanian G., Navin Chandra Rai, Gajanand Saini, Yashpal Singh, Shahwez, Debendra Kumar Tripathi and Abhishek Sehgal MIED, EE, ECE, Tinkering Lab and AIIMS (Rishikesh)				
172.	A method of synthesis of nano porous polymeric adsorbents from polycyclic aromatic hydrocarbons by microwave assisted method	Paritosh Mohanty, Raeesh Muhammad and Anuj Rawat CY	202011019017	04.05.2020	12.11.2021	IP 429535, Dt. 20.04.2023
173.	A modular accessory for the mobility enhancement of manual wheel chairs by motorizing the manual wheelchair.	Akshay Dvivedi, Vaibhav Agarwal and Aditya Peshin MIED	202011019656	09.05.2020	12.11.2021	IP 459625, Dt. 17.10.2023
174.	Low cost reinforced bipolar membrane fabricated with interface layer	Sujay Chattopadhyaya and Bhuvanesh E. PPE	202011020265	14.05.2020	19.03.2021	IP 400162, Dt. 28.06.2022
175. 42 1	Antimicrobial coating system and method thereof	Naveen Kumar Navani, Pardeep Kumar, Arun Beniwal and Ajmal Hussain BSBE	202011021477	21.05.2020	08.07.2022	IP 533342, Dt. 16.04.2024
176.	On-demand-on-site earthquake early warning system	Bhanu Pratap Chamoli, Bhavesh Pandey, Ashok Kumar and Ajay Gairola CED, CoEDMM	202011021708	23.05.2020	26.06.2020	
177.	A prophylactic and therapeutic antiviral composition and method thereof.	Shailly Tomar, Pravindra Kumar, Debabrata Sircar, Dr. Ravi Kumar and Vedita Anand Singh BSBE	202011023131	02.06.2020	03.12.2021	IP 516546, Dt. 28.02.2024
178.	Probiotic formulation for growth enhancement of livestock and method thereof	Naveen Kumar Navani, Ajmal Hussain, Krishna Shankar, Rekha Sharma and Arun Beniwal BSBE	202011024018	08.06.2020	08.07.2022	IP 472167, Dt. 23.11.2023

179.	A universal portable disinfectant chamber against wide spectrum microorganisms for sterilizing personal belongings	Soumitra Satapathi , Prathul Nath PP, Naveen Kumar Tailor, Tejaswini Sharma, Anshu Kumar, Neeladrisingha Das and Partha Roy BSBE, PHY, CON	202011026417	23.06.2020	29.10.2021	IP 536043, Dt. 30.04.2024
180.	Continuous flow (pass-through) ultraviolet light illuminated disinfection system	Vimal Chandra Srivastava and Navneet Kumar CHED	202011028601	06.07.2020	07.01.2022	IP 483317, Dt. 15.12.2023
181.	Hybrid biofilm-suspended photobioreactor for high density algae cultivation	Sanjeev Kumar Prajapati and Mohit Singh Rana HRED	202011028602	06.07.2020	29.10.2021	IP 565621, Dt. 28.04.2025
182.	Silk fibroin nanofiber based edible coating for enhancing the shelf life of horticulture products	P. Gopinath and Dravin Pratap Singh BSBE	202011028795	07.07.2020	29.10.2021	IP 459111, Dt. 16.10.2023
183.	Photosensitizer-based highly efficient, rapid antimicrobial device and applications thereof	P. Gopinath and Soumyadeep Basak BSBE	202011028953	08.07.2020	29.10.2021	IP 538611, Dt. 20.05.2024
184.	Multi-Octave modes for switching power amplifiers	Karun Rawat and Yericharla Ashalatha ECE	202011029361	10.07.2020	14.01.2022	IP 509990, Dt. 13.02.2024
185.	A system method to reduce KT/C noise-reduction by using negative capacitance FETS	Ishant, Swarga Mandal and Sudeb Dasgupta ECE	202011029711	13.07.2020	14.01.2022	IP 442041, Dt. 01.08.2023
186.	A method of developing sodium-ion conductor for next generation solid-state sodium-ion battery	Yogesh Kumar Sharma , Allu Vinodh kumar and Brahma Prakash Dubey PHY	202011030681	18.07.2020	21.01.2022	IP 501087, Dt. 19.01.2024
187.	A method of producing the polyhydroxyalkanoate (PHA) using waste water	Saugata Hazra and Girish Shrotri BSBE	202011031817	24.07.2020.	29.10.2021	IP 552280, Dt. 14.10.2024
188.	A high performance composite electrode for Li-ion Battery	Anjan Sil and Hari Raj MMED	202011035788	19.08.2020	05.03.2021	IP 451440, Dt. 13.09.2023

189.	A system and method for enhancing the performance of SDR and DPD	Meenakshi Rawat and Girish Chandra Tripathi ECE	202011036017	21.08.2020	12.03.2021	IP 541066, Dt. 07.06.2024
190.	An energy efficient variant of hot wire gas tungsten arc welding process	Navneet Arora , Degala Venkata Kiran , Tinku Kumar and Rajdev Singh MIED	202011037154	28.08.2020	05.11.2021	IP 499008, Dt. 13.01.2024
191.	A system comprising stable iron oxide nanoparticles (Maghemite) composite with pumice, for contaminant removal in water and its method of preparation thereof	Himanshu Joshi , Shashi Ranjan, Ajay Kumar and Brijesh Kumar Yadav HYD	202011037533	31.08.2020	05.11.2021	IP 410075, Dt. 27.10.2022
192.	In-situ charging system for implantable pacemaker	Indranil Lahiri , Siddharth Sharma, Debrupa Lahiri and Partha Roy MMED, BSBE, CON	202011038412	05.09.2020	05.11.2021	IP 513843, Dt. 22.02.2024
193.	Non-contact patient registration and monitoring system in multiple languages	P. M. Pathak and Ian Wilfred Noronha MIED	202011042436	30.09.2020	05.11.2021	IP 479029, Dt. 08.12.2023
194.	Photosensitizer based antimicrobial tunnel device for disinfection	P. Gopinath and Soumya Deep Basak BSBE	202011043894	08.10.2020	17.12.2021	IP 488649, Dt. 26.12.2023
195.	Dual reservoir multifunctional wristband	Vipin Chawla , Neha Sardana, K. Goyal and Ramesh Chandra IIC, IIT Ropar	202011045513	19.10.2020	17.12.2021	IP 483986, Dt. 18.12.2023
196.	A system and method for adjusting analog predistortion linearizer for linearizing wideband high-power amplifiers	Meenakshi Rawat and Ashish Kumar ECE	202011046368	23.10.2020	29.04.2022	IP 511724, Dt. 16.02.2024
197.	Real-time fog removal system and its method thereof	Rahul Kumar, Brajesh Kumar Kaushik , Balasubramanian Raman and Gaurav Sharma ECE, CSE and University of Rochester	202011047686	02.11.2020	12.03.2021	IP 516819, Dt. 28.02.2024
198.	Electro-membrane processes to recover caustic from green liquor of agro-based paper mills	Sujay Chattopadhyaya , Priyabrata Mandal, Bhuvanesh E. and Priya Goel PPE	202011047687	02.11.2020	05.03.2021	IP 504423, Dt. 29.01.2024

199.	Cost-Effective Isolated operation of the DFIG wind system supported by the DC microgrid	Gururaj M. V., Narayana Prasad Padhy , Bandla Krishna Chaithanya and Rashmi Prasad EE	202011048384	05.11.2020	05.03.2021	IP 476919, Dt. 05.12.2023
200.	Fabrication of biodegradable triple layered nanofibrous bandages and applications thereof	P. Gopinath and Vinay Kumar BSBE	202011049934	17.11.2020	05.03.2021	IP 480589, Dt. 11.12.2023
201.	Development of epoxy composites reinforced by waste Kans grass (Saccharum Spontaneum) filler by hand layup method	Shishir Sinha and G. L. Devnani ChED, HBTU Kanpur	202011051143	24.11.2020	05.03.2021	IP 541455, Dt. 11.06.2024
202.	Magnetic biochar manufactured from industrial effluent treatment plant (ETP) sludge for the removal of pollutants	V.C. Srivastava and Vikash Singh ChED	202011051144	24.11.2020	05.03.2021	IP 417506, Dt. 10.01.2023
203.	Protective ion-conducting flexible electrolyte-cum-separator sheet for solid-state battery having Li/Na metal- anodes and methods for producing the same	Yogesh Kumar , Asit Sahoo and Brahma Prakash Dubey PHY	202011051145	24.11.2020	12.03.2021	IP 431595, Dt. 11.05.2023
204.	A pot process for synthesis of nanometal carbon hybrids and bio-oils from metal contaminated waste water and biomass	N. Siva Mohan Reddy and Priyanka Yadav ChED	202011051146	24.11.2020	05.03.2021	IP 476778, Dt. 05.12.2023
205.	Deployable canister mechanism for an inflatable spaceborne planar membrane reflector antenna	S. H. Upadhyay , Swapnil Shinde, Sammer Sakhare and Kripa Shanker Singh MIED (with ISRO)	202011055864	22.12.2020	12.03.2021	IP 447197, Dt. 25.08.2023
206.	Soft actuator for robotics manipulation and locomotion	P. M. Pathak , Yunus Pirjade, Ian Wilfred Noronha, J. M. Yang and Garima MIED	202011055865	22.12.2020	05.03.2021	IP 528732, Dt. 18.03.2024
207.	Molybdenum Vanadium Niobium Tellurium Oxide (Mo-V-Nb-Te-O) catalyst for the ammoxidation of propane to acrylonitrile	Prakash Biswas and Shishir Sinha ChED, CEPC	202011055866	22.12.2020	04.02.2022	IP 431112, Dt. 04.05.2023
208.	Sono-electrochemical method for the degradation of the recalcitrant pollutants in wastewater	V. C. Srivastava and Ritesh Patidar ChED	202011055867	22.12.2020	12.03.2021	IP 404097, Dt. 22.08.2022

209.	Untethered Soft Snake Robot	P. M. Pathak , Yunus Pirjade, J. M. Yang and Garima MIED	202011055868	22.12.2020	05.03.2021	IP 492402, Dt. 01.01.2024
210.	A solar assisted compact liquid desiccant comfort system	Sudhakar Subudhi , Geleta Fekuda Daba, Sajesh M. and Kalpana MIED	202011056779	28.12.2020	12.03.2021	IP 488395, Dt. 23.12.2023
211.	A flame retardant natural fiber reinforced composite material and its method of preparation thereof	Shishir Sinha and Jyoti Jain ChED	202011056780	28.12.2020	12.03.2021	IP 411980, Dt. 21.11.2022
212.	A cam and follower mechanism for reducing the thread count variation in pedal-operated handlooms	Rajat Agrawal , Ashutosh Samadhiya and Tejas Pramod Naik DoMs & DIC	202011057535	31.12.2020	10.09.2021	IP 452613, Dt. 19.09.2023
Year 2020			62			
213.	Registered Design Deployable canister mechanism for an inflatable space-borne planar membrane reflector antenna	S. H. Upadhyay , Swapnil Shinde, Sammer Sakhare and Kripa Shanker Singh MIED (with ISRO)	337084-001	01.01.2021		
214.	A copper oxide based cellulose modified chitosan bio nanocomposite film and its method of synthesis thereof.	Kaushik Pal and Nidhi Pal MIED	202111002071	16.01.2021	12.03.2021	IP 527844, Dt. 15.03.2024
215.	Colorimetric assay for testing the presence of antimicrobial resistance	Saugata Hazra and Niteesh Kumar Pandey BSBE	202111003064	22.01.2021	08.07.2022	IP 435256, Dt. 19.06.2023
216.	A natural fiber reinforced polymer composite film consisting PVA and Moringa Oleifera seed filler (MOSF)	Shishir Sinha and Kajal Mishra ChED	202111004106	29.01.2021	10.09.2021	IP 426960, Dt. 27.03.2023
217.	A traffic-light control system and method utilizing the deep reinforcement learning technique to balance the traffic flow and prevent congestion	Neetesh Kumar CSE	202111005979	12.02.2021	10.09.2021	IP 471049, Dt. 21.11.2023
218.	A system and method for active reactive power based speed and/or Torque control of multiphase asynchronous machines	M.K. Pathak and Harshit Mohan EE	202111007450	23.02.2021	10.09.2021	IP 502057, Dt. 23.01.2024

219.	An improved roller for felt making	R. P. Saini and S. K. Singal HRED	202111008121	26.02.2021	10.09.2021	IP. 499007, Dt. 13.01.2024
220.	Variable speed solar powered wool spinning device	R. P. Saini and S. K. Singal HRED	202111008122	26.02.2021	10.09.2021	IP 527442, Dt. . 15.03.2024
221.	A system and method of allocation of communication resources for DVB-RCS complaint satellite terminals and implementation thereof	Sandeep Garg and Abhishek Kumar Roy CSE	202111010107	10.03.2021	10.09.2021	IP 509994, Dt. 13.02.2024
222.	A lithography free inverted pyramid arrays with controlled aspect ratio on monocrystalline/polycrystalline silicon wafers and its method synthesis	Arup Samanta , Neeraj Joshi, Ravi Kumar Verma and Mrinal Dutta PHY (with NPL)	202111011643	18.03.2021	11.03.2022	
223.	A process for production of bio CNG from biogas	B. Prasad ChED	202111016514	08.04.2021	10.09.2021	IP 421709, Dt. 15.02.2023
224.	Sugar-based graphene foam and graphene synthesis process and applications thereof	Indranil Lahiri and Narasimha Vinod Pulagara MMED	202111024510	02.06.2021	10.06.2022	IP 489363, Dt. 26.12.2023
225.	A rainfall simulator for moving storm condition	Sumit Sen and Ravi Meena HYD	202111025193	07.06.2021	10.09.2021	IP 471419, Dt. 22.11.2023
226.	A method for the synthesis of amides from various carboxylic acids and amine derivatives	Debasis Banerjee and Shuvojit Halder CY	202111025725	09.06.2021	10.09.2021	IP 397387, Dt. 23.05.2022
227.	Cobalt-based boron-nitride supported heterogeneous-catalysts involving nitrogen ligand and its method of preparation thereof	Debasis Banerjee and Shuvojit Halder CY	202111025726	09.06.2021	10.09.2021	IP 400786, Dt. 05.07.2022
228.	A cylindrical extension device	Rachit Birla DIC	202111026786	16.06.2021	31.12.2021	IP 485338, Dt. 19.12.2023
229.	A discrete energy dissipating damper device with adaptive yield link elements	K. V. Naveen kumar, Nidhin S. Pachappoyyi and Pankaj Agrawal EQD	202111027203	17.06.2021	10.09.2021	IP 505108, Dt. 30.01.2024

230.	Ni-Fe bimodal catalyst for syngas production from carbon dioxide reforming of methane and process for the preparation thereof	Prasenjit Mondal and Mumtaj Shah ChED	202111030753	08.07.2021	10.09.2021	IP 391874, Dt. 14.03.2022
231.	A piezoelectric flexible polymer nanocomposite based energy harvester for charging battery or capacitor from limb movement	Indranil Lahiri , Satish Jaiswal, Divyam Sharma and Debrupa Lahiri MMED	202111031829	15.07.2021	22.07.2022	IP 502137, Dt. 23.01.2024
232.	Copper doped tin oxide film and its method of preparation for fabrication of perovskite solar cell	Kaushik Pal and Jitendra Bahadur MIED & CON	202111034269	29.07.2021	10.09.2021	IP 444141, Dt. 10.08.2023
233.	A system and method for extracting shikimic acid from chir pine needles	Vimal Kumar , Gaurav Kumar Silori and Naveen Kushwaha ChED	202111038776	26.08.2021	22.07.2022	IP 566950, Dt. 29.05.2025
234.	A dual-chamber gas analysing system and method for selective gas sensing	Kaushik Pal , Keerti Rathi and A. Naveen Kumar MIED & CON	202111038777	26.08.2021	05.11.2021	IP 396484, Dt. 09.05.2022
235.	A cellulose nanofibers based composite aerogel for super thermal insulation	Pradip Kumar Maji and Pragya Gupta PPE	202111039047	28.08.2021	05.11.2021	IP 492269, Dt. 30.12.2023
236.	A method for the synthesis of primary amides	Debasis Banerjee and Shuvojit Haldar CY	202111039949	03.09.2021	05.11.2021	IP 458972, Dt. 13.10.2023
237.	A Ni(II)-pincer complex for catalytic amination of alcohols	Debasis Banerjee and Atanu Bera CY	202111039950	03.09.2021	05.11.2021	IP 399507, Dt. 20.06.2022
238.	An output system for a w-band second harmonic gyrotron	Surbhi Adya, Debasish Mondal, Sivasubramanian Yuvaraj, Santanu Karmakar and Machavaram Venkata Kartikeyan ECE & DRDO	202111042485	20.09.2021	24.03.2023	
239.	An electro-electrodialysis (EED) cell for periodic removal of precipitate	Sujay Chattopadhyaya , Priyabrata Mandal, Priya Goel, Bhuvanesh E. and Amit Suhag PPE	202111042858	22.09.2021	05.11.2021	IP 483209, Dt. 15.12.2023

240.	A process for algal spent recycling and metabolites production	Sanjeev Kumar and Mohit Rana HRED	202111043885	28.09.2021	15.07.2022	IP 555644, Dt. 02.12.2024
241.	A method of recovering sulfur from industrial solid wastes/sludge	Vimal Chandra Srivastava and Vikash Singh ChED	202111046070	09.10.2021	05.11.2021	IP 426783, Dt. 24.03.2023
242.	A portable ultraviolet sterilization and disinfection device	Shailly Tomar , Praful Kumar Khoba and Mandar Bhutkar BSBE & DIC	202111046071	09.10.2021	21.10.2022	
243.	A method for removing Acrylonitrile from aqueous solution heterogenous catalysts	Basheshwer Prasad and Arvind Kumar ChED	202111046759	13.10.2021	05.11.2021	IP 434526, Dt. 14.06.2023
244.	A portable sensing device and a method for rapid and non-destructive determination of the quality of coconut	Debabrata Sircar , Partha Roy , Nagendra P. Pathak , Mukund Kumar, Bhairavnath Waghmode, Komal Kushwaha and Arun Kumar Varshney BSBE & ECE (with CDB)	202111048606	25.10.2021	26.11.2021	IP 441113, Dt. 28.07.2023
245.	A method for photocatalyzed knoevenagel condensation	K. R. Justin Thomas and Anupam Das CY	202111049183	27.10.2021	26.11.2021	IP 518185 , Dt. 01.03.2024
246.	A method of synthesis of aldehyde and ketones from dicyanovinyl derivatives using photochemical method for C=C bond cleavage of dicyanovinyl derivatives and NBS under light irradiation	K. R. Justin Thomas and Anupam Das CY	202111049184	27.10.2021	26.11.2021	IP 397930, Dt. 27.05.2022
247.	Surface functionalized hierarchical carbon fiber reinforced composites hybrid polypropylene composites and the method of preparation	Gaurav Manik and Rupam Gogoi PPE	202111050223	02.11.2021	26.11.2021	IP 400382, Dt. 29.06.2022
248.	A system and method for continuous caustic production and periodic precipitate removal	Sujay Chattopadhyaya , Priyabrata Mandal and Priya Goel PPE	202111054359	24.11.2021	02.12.2022	IP 441221, Dt. 28.07.2023
249.	An ultrasonic assisted magnetic abrasive flow machining process and a device therefore	Varun Sharma , Pradeep Kumar and Nitin Dixit MIED	202111054926	27.11.2021	31.12.2021	IP 450601, Dt. 11.09.2023

250.	Registered Design Trapezoidal with fin as Float Design of Point Absorber Wave Energy Convertor	Sumana Ghosh , Ravi Prakash, Ranjana Ranthaur and Shivam Gupta ChED	354261-001	04.12.2021	19.05.2023	354261-001, Dt. 18.05.2023
251.	A method of synthesis of novel ligands and Fe(II)-metallopolymer as functional materials	Anasuya Bandyopadhyay and Shubham Bawa PPE	202111056940	08.12.2021	04.02.2022	IP 511932, Dt. 19.02.2024
252.	Green high speed railways communication by mitigating power amplifier nonlinearity for mimo transceivers.	Meenakshi Rawat and Anurag Vijay Agrawal ECE	202111059093	17.12.2021	31.12.2021	
253.	Hybrid halide perovskite materials for photo-active electrodes for photo rechargeable supercapacitors and its method of preparation	Monojit Bag and Ramesh Kumar Phy	202111060124	23.12.2021	18.11.2022	IP 455720, Dt. 29.09.2023
254.	A system and method for detecting catalase negative lactobacillus using dnzyme and differentiate it from catalase positive bacteria	Maya S. Nair and Aishwarya Shukla BSBE	202111060125	23.12.2021	22.04.2022	IP 549499, Dt. 02.09.2024
255.	A strong ground motion sensor	Govind Rathore, Dr. Ashok Kumar, Dr. Ravi Sankar Jakka , Dr. Mukat Lal Sharma , Dr. Kamal EQD, DES	202111061557	29.12.2021	04.02.2022	IP 496293, Dt. 09.01.2024
256.	A low-cost earthquake early warning siren (EEWS) for home/office	Govind Rathore, Dr. Ashok Kumar, Dr. Ravi Sankar Jakka , Dr. Mukat Lal Sharma , Dr. Kamal EQD, DES	202111062011	30.12.2021	04.02.2022	IP 546838, Dt. 31.07.2024
257.	Method of ultrasound induced catalytic detoxification of acrylonitrile from aqueous solution	Basheshwer Prasad and Arvind Kumar ChED	202111062254	31.12.2021	04.02.2022	IP 404050, Dt. 22.08.2022
Year 2021	45					
258.	A low-cost earthquake early warning siren for public	Govind Rathore, Dr. Ashok Kumar , Dr. Ravi Sankar Jakka , Dr. Mukat Lal Sharma and Dr. Kamal EQD, DES	202211000637	05.01.2022	04.02.2022	IP 543662, Dt. 28.06.2024

259.	Bioinspired skirted footing and its method of installation	Ravi S. Jakka and Khalid Bashir EQD	202211000638	05.01.2022	06.01.2023	IP 542117, Dt. 19.06.2024
260.	A pelletized arsenic adsorbent and its method of preparation using the laterite rock and the ferromanganese slag	Abhijit Maiti , Nishant Jain and Anil Kumar PPE	202211001060	07.01.2022	21.01.2022	IP 436203, Dt. 28.06.2023
261.	A portable bioelectronic sensor for easy non-destructive prediction of fruit ripening stage and selected fruit physicochemical parameters of apples	Debabrata Sircar , Partha Roy, Nagendra P. Pathak, Bhairavnath Waghmode, Komal Kushwaha and Mukund Kumar BT, ECE	202211002188	13.01.2022	28.01.2022	
262.	Compact air-coupled 2D ultrasound computed tomography (UCT) system	Mayank Goswami and Ankur PHY	202211003424	20.01.2022	04.02.2022	IP 507890, Dt. 07.02.2024
263.	Registered Design Compact air-coupled 2D ultrasound computed tomography (UCT) scanner assembly	Mayank Goswami and Ankur PHY	357044-001	20.01.2022	21.07.2023	357044-001, Dt. 17.07. 2023
264.	A method for the dissociation of gas hydrates	Anupama Kumari, Shadman Hasan Khan, Monika Gandhi, Chandrajit Balomajumder , Amit Arora and Gaurav Dixit ChED	202211003671	21.01.2022	04.02.2022	IP 415416, Dt. 26.12.2022
265.	Novel equipment for the dissociation of gas hydrates	Anupama Kumari, Shadman Hasan Khan, Monika Gandhi, Chandrajit Balomajumder , Amit Arora and Gaurav Dixit ChED & ONGC	202211004290	25.01.2022	04.02.2022	IP 405121, Dt. 30.08.2022
266.	A low-cost ecofriendly process for the recycling of waste polyethylene packets to prepare paver blocks and wall tiles	Prasenjit Mondal , Hemant Goyal and Navneeta Lal ChED	202211005946	03.02.2022	18.02.2022	IP 471200, Dt. 21.11.2023

267.	A superhydrophobic polystyrene/PVDF membrane coated with WO ₃ nanocomposite for membrane distillation application	Bhaskar Jyoti Dek , Gaurav Vaghela, Akshit Pushkar and Himanshu Joshi HYD	202211008575	18.02.2022	25.11.2022	IP 477779, Dt. 06.12.2023
268.	A method of fabrication of superhydrophobic membrane	Bhaskar Jyoti Dek , Gaurav Vaghela, Akshit Pushkar and Himanshu Joshi HYD	202211008576	18.02.2022	25.11.2022	IP 456366, Dt. 03.10.2023
269.	A tragacanth gum hydrogel-based polishing media for abrasive flow machining and its method of preparation	Varun Sharma , Pradeep Kumar and Nitin Dixit MIED	202211012670	09.03.2022	18.03.2022	IP 504185, Dt. 29.01.2024
270.	A method for direct synthesis of nanometal carbon composites and Hydrogen rich fuel gas mixture using biomass and aqueous metal effluent	N. Siva Mohan Reddy and Pankaj Kumar ChED	202211018631	30.03.2022	08.04.2022	IP 435979, Dt. 28.06.2023
271.	A hybrid bidirectional conductive-inductive electric vehicle (EV) battery charger apparatus with maximum converter utilization	Deepak Ronanki and Harish Karneddi HRED	202211019295	31.03.2022	08.04.2022	IP 525738, Dt. 14.03.2024
272.	A system and method for identification of peptides from saliva to detect triple negative breast cancer	Srinivas Kiran Ambatipudi and Kuldeep Giri BSBE	202211019945	01.04.2022	15.07.2022	
273.	A system and method to localize a sound source and predict its 3 dimensional (3D) spatial coordinates	Sneha Singh and Shikha MIED	202211020183	04.04.2022	15.04.2022	IP 508381, Dt. 08.02.2024
274.	A four plate capacitive coupler for improving power transfer capability and reducing the field emissions in wireless power transfer systems	Deepak Ronanki and Pramod Patidar HRED	202211021693	12.04.2022	22.04.2022	
275.	A universal bridgeless reconfigurable battery charger with wide output voltage range	Deepak Ronanki and Harish Karneddi HRED	202211021900	12.04.2022	22.04.2022	IP 526703, Dt. 14.03.2024

276.	A scalable balun filter	Gowrish B. ECE	202211022250	14.04.2022	22.04.2022	IP 510886, Dt. 15.02.2024
277.	Registered Design A slanted square pyramid shaped array consisting of five acoustic sensors for sound source localization	Sneha Singh and Shikha MIED	364475-001	20.05.2022		
278.	An isolated single-stage AC-AC converter suitable for a solid-state transformer	M.K Pathak and Wajahat Khan EE	202211032809	08.06.2022	17.06.2022	IP 514220, Dt. 22.02.2024
279.	A composition comprising of 2-aminoperimidine and polymyxin B for the treatment of multidrug-resistant bacterial topical infections	Ranjana Pathania and Mahak Saini BSBE	202211033140	09.06.2022	17.06.2022	IP 561188, Dt. 25.02.2025
280.	Registered Design Cylindrical Electrical Extension (Two Pin, Three Pin & USB Points)	Rachit Birla DIC	365808-001	09.06.2022		
281.	Registered Design An acoustic metamaterial with sound absorption more than 70% between 380 to 600 Hz	Sneha Singh and Golakoti Pavan MIED	366049-001	14.06.2022		366049-001, Dt. 10.04.2024
282.	Registered Design An acoustic metamaterial with sound absorption more than 70% between 950 to 1300 Hz	Sneha Singh and Golakoti Pavan MIED	366050-001	14.06.2022		
283.	Registered Design A material for absorbing lower middle frequency sounds	Sneha Singh and Golakoti Pavan MIED	366051-001	14.06.2022	12.05.2023	366051-001, Dt. 08.05.2023

284.	A process of extraction of aluminium, titanium, scandium and iron values from the bauxite residue (red mud) using alkali baking	Nikhil Dhawan and Shrey Agrawal MMED	202211034681	17.06.2022	15.07.2022	IP 447808, Dt. 28.08.2023
285.	An iron and manganese oxide double impregnated modified alumina supported catalyst and its method of preparation	Taraknath Das and Vijendra Kumar Yadav CHED	202211035354	20.06.2022	15.07.2022	IP 507958, Dt. 07.02.2024
286.	A basalt fiber and fly ash reinforced hybrid polypropylene composites and method of preparation	Gaurav Manik and Atul Kumar Maurya PPE	202211035355	20.06.2022	15.07.2022	IP 476253, Dt. 01.12.2023
287.	An interoperable transmitter coil and reconfigurable power converter for wireless charging of electric vehicles	Deepak Ronanki and Priyanka Tiwari HRED	202211036252	24.06.2022	05.01.2024	
288.	A method for recovery of rare earth oxides from fluorescent lamp phosphor using microwave acid baking	Nikhil Dhawan , Neha Shukla and Shrey Agrawal MMED	202211037582	30.06.2022	15.07.2022	IP 513227, Dt. 21.02.2024
289.	A process for the capture of carbon dioxide from flue gas	Basheshwer Prasad CHED	202211038895	06.07.2022	15.07.2022	IP 418108, Dt. 16.01.2023
290.	A system and method for classifying and upscaling the DRP optimized parameters of porosity, pore types and aspect ratio to field values	Ravi Sharma , Shruti Malik and Adithya Shashidhara Shettar ES	202211039869	12.07.2022	23.06.2023	IP 564989, Dt. 07.04.2025
291.	A web application, user interface based automatic mobile robot (WAMR) to carry payload with obstacle avoidance feature	Samsaptak Ghosh, Sohom Chakrabarty , Ujjwal Gupta and Etta Dheeraj Kumar Reddy EE	202211041469	20.07.2022	19.08.2022	IP 548886, Dt. 28.08.2024
292.	A polymeric hydrogel lens for non-invasive drug delivery	Mayank Goswami , P. Gopinath and Rajkumar Sadasivam PHY, BSBE	202211042907	27.07.2022	05.08.2022	IP 536567, Dt. 02.05.2024

293.	A method of preparing biocompatible hydrogel for non-invasive drug delivery	Mayank Goswami , P. Gopinath and Rajkumar Sadasivam PHY, BSBE	202211042908	27.07.2022	05.08.2022	IP 442924, Dt. 04.08.2023
294.	A method for determination of performance grade of unmodified asphalt binder using rheometer	Gondaime Ransinchung Rongmei Naga , Ankit Sharma and Praveen Kumar CED	202211042909	27.07.2022	05.08.2022	IP 463154, Dt. 30.10.2023
295.	Pulse-assisted hybrid cryo lubrication system	Varun Sharma , Dungavath Narayana Swamy Naik and Ramandeep Singh MIED	202211044497	03.08.2022	19.08.2022	IP 514116, Dt. 22.02.2024
296.	A phthalate binding protein-based system and method to extract phthalate from the contaminated water	Pravindra Kumar , Jai Krishna Mahtom Kamble Amith Kumar and Arpan Kayastha BSBE	202211044498	03.08.2022	01.09.2023	
297.	A cold rolled bainitic steel with high strength and high elongation	Saurav Das , Sonu Yadav, Rajib Chowdhury and S. B. Singh MMED, CED and IIT Kharakpur	202211044546	04.08.2022	02.06.2023	IP 557569, Dt. 08.01.2025
298.	A wideband ferrite transformer based power divider	Gowrish Basavarajappa ECE	202211044718	04.08.2022	19.08.2022	IP 547641, Dt. 13.08.2024
299.	A phthalate binding protein (PhtE) from Comamonas testosteroni KF1 N	Pravindra kumar , Jai Krishna Mahto, Kamble Amith Kumar and Arpan Kayastha BSBE	202211044919	05.08.2022	28.07.2023	IP 561227, Dt. 25.02.2025
300.	An organic photovoltaic cell for solar tile application	Anjan Sil and Soumya Shankar Ghosh MMED	202211049893	01.09.2022	29.09.2023	IP 557071, Dt. 30.12.2024
301.	A planar to spatial tendon-driven under-actuated continuum arm mobile robot	Pushparaj Man Pathak and Vipin Pachouri MIED	202211050172	02.09.2022	21.10.2022	IP 566274, Dt. 15.05.2025

302.	An accelerometer mounting device	Manoranjan Parida CED	202211050355	02.09.2022	13.10.2023	
303.	Cutting tool insert and method of fabrication cutting tool insert	Varun Sharma and Rohit Singh MIED and DRDO	202211050331	02.09.2022	08.03.2024	
304.	A perovskite single crystal-based hand-held x-ray detector and its method thereof	Soumitra Satapathi , Partha Roy , Naveen Kumar Tailor, Mohammad Adil Afroz, Yukta, and Manisha Chatterjee PHY, BSBE	202211051569	09.09.2022	16.09.2022	IP 548659, Dt. 27.08.2024
305.	A single step synthesis of hard carbon from agro-waste for sodium-ion battery	Anjan Sil and Bharat Verma MMED	202211051784	10.09.2022	23.09.2022	IP 533398, Dt. 16.04.2024
306.	A system and method for an expression vector for producing recombinant fusion protein comprising spontaneous cleavage site to remove the fusion tag	Pravindra Kumar , Neetu, Jai Krishna Mahto and Ishani Mishra BSBE	202211051785	10.09.2022	13.10.2023	
307.	Registered Design Twisted elliptical tube-in-tube helically coiled heat exchangers	Vimal Kumar and Naveen Kushwaha ChED	370616-001	10.09.2022	27.01.2023	370616-001, Dt. 25.01.2023
308.	A formaldehyde modified thermoplastic starch and its blending with low density polyethylene (LDPE) for preparing biodegradable film	Patit Paban Kundu ChED	202211051869	12.09.2022	23.09.2022	IP 503713, Dt. 25.01.2024
309.	Hydroxyapatite-nano crystal reinforced indigenous biopolymer-based composites for orthopedic implants and its method of preparation	Saugata Hazra , Preeti Tomer, Gireesh Kumar Shroti, Satish Jaiswal and Debrupa Lahiri BSBE and MMED	202211052660	15.09.2022	30.09.2022	
310.	A surface modified biodegradable and biocompatible Mg-Zn alloy for intramedullary pins and other temporary fracture fixing accessories	Debrupa Lahiri and Satish Jaiswal MMED	202211052661	15.09.2022	13.10.2023	
311.	A water based ink formulation for rotogravure printing ink medium and pigmented ink	Yuvraj Singh Negi , Anurag Kulshreshtha, Brahma Prakash and Millie Pant PPE, DPT and AMSC	202211053533	19.09.2022	30.09.2022	IP 560347, Dt. 14.02.2025

312.	A smart bi-directional charger for simultaneous charging of multiple electric vehicles	Avanish Tripathi , Sangeet Yadav and Roshan Raja Samuel A EE	202211054258	22.09.2022	21.10.2022	IP 557338, Dt. 01.01.2025
313.	A system and method for estimating the location of a base station using RSSI available on the mobile station	Abhay Kumar Sah ECE (with Dr B R Ambedkar National Institute Of Technology Jalandhar)	202211054392	22.09.2022	13.10.2023	
314.	A system and method for the fabrication of hybrid halide perovskite asymmetric supercapacitors based on lithium (Li) ion electrolyte	Monojit Bag and Ankur Yadav PHY	202211057029	04.10.2022	14.10.2022	IP 482171 , Dt. 13.12.2023
315.	A low radar cross section (RCS) circularly polarized (CP) reflectarray	Debidas Kundu ECE	202211057030	04.10.2022	14.10.2022	IP 556522, Dt. 18.12.2024
316.	A solvent-free method to synthesize bio-based pressure-sensitive adhesives (PSAS) for various applications	Gaurav Manik and Manjinder Singh PPE	202211058465	13.10.2022	21.10.2022	IP 451063, Dt. 12.09.2023
317.	A water based ink formulation for magenta pigment application for elongated engraved cells on rotogravure printing cylinder	Yuvraj Singh Negi , Anurag Kulshreshtha, Brahma Prakash and Sauraj Singh PPE and DPT	202211059665	19.10.2022	25.11.2022	IP 521629, Dt. 07.03.2024
318.	A fault tolerant control system and method for a paralleled power converter fed large rated asynchronous hydro-generating unit	Thanga Raj Chelliah , Raghu Selvaraj, Birudula Anil Kumar and Karthik Desingu WRDM (With CPRI)	202211061830	31.10.2022	18.11.2022	IP 534582, Dt. 24.04.2024
319.	A biodegradable and biocompatible polymer-based functionalized bilayer scaffold for peripheral nerve and guided motor neuron regeneration	Debrupa Lahiri , Arabinda Majhi, Souvik Ghosh and Partha Roy MMED and BSBE	202211063139	04.11.2022	24.11.2023	
320.	A modular end-cooler of resistively heated tube	Andallib Tariq and Ankit Rajkumar Singh MIED	202211064575	11.11.2022	25.11.2022	IP 525637, Dt. 14.03.2024

321.	An enhanced advanced driver assistance systems (ADAS) based real-time transportation safety system and method through IoT and deep learning	Rahul Dev Garg and Neerav Sharma CED	202211065321	15.11.2022	09.12.2022	IP 552790, Dt. 21.10.2024
322.	A continuous production of metal matrix composite sheets using twin roll continuous casting method	Pradeep Kumar Jha and Dheeraj Kumar Saini MIED	202211065567	16.11.2022	02.12.2022	IP 515594, Dt. 27.02.2024
323.	An energy efficient ground coupled retrofitted split ac for heating and cooling applications	Krishnan Murugesan and Satish Kumar MIED	202211065568	16.11.2022	02.12.2022	IP 505322, Dt. 30.01.2024
324.	Nanoluciferse reporter tagged virus-like particles, a method for producing the same, and applications thereof	Shailly Tomar , Pravindra Kumar and Vedita Anand Singh BSBE	202211066289	18.11.2022	13.01.2023	
325.	A biodegradable and water repellent polypropylene based coating material for packaging applications and its method of preparation	Patit Paban Kundu and Deepak Kumar ChED	202211066668	21.11.2022	02.12.2022	IP 536393, Dt. 30.04.2024
326.	A method for controlling the porosity and distribution in a sandwiched aluminum plate processed using friction stir processing	Brainerd Samuel Sundar Daniel , Deeksha Lohani and Dhanish Sidhik MMED	202211067703	24.11.2022	09.12.2022	
327.	Biodegradable nanocomposite superhydrophobic membrane for application in membrane distillation	Bhaskar Jyoti Deka , Gaurav Vaghela and Mohd Sahil HYD	202211068384	28.11.2022	21.07.2023	
328.	A system and method for drive cycle for railway vehicles	Bhaveshkumar Rameshchandra Bhalja , Ashtabhuj Kumar Srivastava and Saran Satsangi EE	202211072353	14.12.2022	30.12.2022	IP 565256, Dt. 17.04.2025
329.	A system and method for estimation of pore-size distribution in carbonates using spectral induced polarization (SIP)	Ravi Sharma and Neha Panwar ESD	202211072354	14.12.2022	30.12.2022	IP 509976, Dt. 13.02.2024

330.	A one-pot synthesis method of heteroatom(s)-doped porous reduced graphene oxide as electrode material by the reduction of graphene oxide for the fabrication of high voltage aqueous symmetric supercapacitor	Anil Kumar and Ikrar Ahmad CY	202211072704	15.12.2022	30.12.2022	IP 520307, Dt. 05.03.2024
331.	Calcite filled biodegradable ribbons made from a blend of polypropylene, PBAT and PLA for cement packaging applications	Patit Paban Kundu and Thirumalazhagan D. K ChED (With JSW Cement Pvt. Ltd., Mumbai)	202211074733	22.12.2022	06.01.2023	IP 476144, Dt. 01.12.2023
332.	A fly ash reinforced waste plastics brick for the construction purpose and its method of preparation	Gaurav Manik , Atul Kumar Maurya and Sachin Kumar PPE	202211074970	23.12.2022	08.03.2024	
333.	Registered Design Design of a rigid packaging bottle	Kirtiraj K Gaikwad , Pragya Srivastava and Sampat Singh Bhati PT	376109-001	24.12.2022	10.02.2023	376109-001, Dt. 07.02.2023
334.	A manually operated, horizontally aligned, dual plunger based briquetting machine	Rajat Agrawal , Vinay Sharma , Kapil Joshi, Gajendra Giri, Mohit Barthwal and Gaurav Dixit DoMS	202211076015	27.12.2022	13.01.2023	IP 496458, Dt. 09.01.2024
Year 2022	77					
335.	A solid-state transformer (SST) with reduced switch count	Mukesh Kumar Pathak and Karthik Singh Parihar EE	202311002905	13.01.2023	20.01.2023	IP 537594, Dt. 10.05.2024
336.	Personalized comfort system	E. Rajasekar , Krishan Upadhyay, Lalit Mohan Sharma and Ganesh Kalanidhi APD	202311002928	14.01.2023	20.01.2023	IP 550278, Dt. 13.09.2024
337.	Alphavirus virus-like particles (VLP) containing immunogenic proteins of pathogens and its uses thereof	Shailly Tomar , Pravindra Kumar, Vedita Anand Singh and Sanket Kumar Nehul BSBE	202311004737	24.01.2023	03.02.2023	

338.	Thick deposition of nanostructured materials with intimate solid-solid interface for all solid state batteries and method for producing the same	Yogesh Kumar Sharma , Brahma Prakash Dubey and Bhisma Narayan Mahanty PHY	202311005235	26.01.2023	10.02.2023	IP 566437, Dt. 20.05.2025
339.	Process for synthesis of calcium silicate hydrate as a pre-formed hardening accelerator	Rajib Chowdhury , Anupam Chakrabarti and Praveen Verma CED	202311005643	28.01.2023	23.06.2023	
340.	Novel fractional acid hydrolysis process/method for the production of fermentable sugar from LIGNOC	Sanjoy Ghosh and Pritam Singh BSBE and ONGC	202311006224	31.01.2023	03.05.2024	
341.	Fractional hydrolysis reactor system for acid hydrolysis of lignocellulosic biomass	Sanjoy Ghosh and Pritam Singh BSBE and ONGC	202311006225	31.01.2023	03.05.2024	
342.	A system and method to improve post LVRT/MVRT performance of wind turbines with coupling slippages	Jishnu Kavil Kambrath and Anil Kumar Tiwari EE	202311006645	01.02.2023	17.02.2023	IP 551538, Dt. 30.09.2024
343.	An intelligent rainfall intensity measurement system and method	Rajib Kumar Panigrahi and Amrita Joshi ECE	202311006646	01.02.2023	17.02.2023	IP 560513, 18.02.2025
344.	Test method and apparatus for classification of alcohol-based formulations	Kirti Bhushan Mishra and Saumitra Mishra MIED	202311007094	03.02.2023	10.02.2023	
345.	Optimal neighborhood selection for geometric parameters extraction for aerial and terrestrial lidar data classification	Rahul Dev Garg and Mayank Sharma CED	202311007134	03.02.2023	10.02.2023	
346.	A superhydrophobic membrane and method for fabrication of a biodegradable nanocomposite superhydrophobic membrane	Bhaskar Jyoti Deka , Gaurav Vaghela and Mohd Sahil HYD	202311007173	03.02.2023	23.06.2023	IP 566705, Dt. 27.05.2025
347.	Registered Design Three legged spacer for double pipe heat exchanger	Krishnan Murugesan and Satish Kumar MIED	379028-001	09.02.2023	05.05.2023	379028-001, Dt. 03.05.2023

348.	Registered Design Twisted leg spacer for double pipe heat exchanger	Krishnan Murugesan and Satish Kumar MIED	379029-001	09.02.2023	12.05.2023	379029-001, Dt. 11.05.2023
349.	A three phase four wire cascaded H-bridge based reduced switch hybrid shunt active power filter	Avik Bhattacharya , Muneer V and Arkabrata Dattaroy EE	202311009572	14.02.2023	24.02.2023	IP 565688, Dt. 29.04.2024
350.	Catalyst free method for C-2 alkylation in Heteroarene-N-Oxides using katritzky salts	Anuj Sharma , Nihal Singh and Shivani Sharma CY	202311010983	17.02.2023	17.03.2023	IP 534656, Dt. 24.04.2024
351.	System for enthalpy dependent ventilation controller	E. Rajasekar , Garima Singhal and Sanjeev Krishnan R. APD	202311012465	23.02.2023	17.03.2023	
352.	An electrocoagulation based treatment system and method for arsenic and fluoride contaminated water	Prasenjit Mondal and Hemant Goyal ChED	202311014986	06.03.2023	23.06.2023	
353.	Production of bio-oil and amorphous silica nanoparticles from rice husk	Shushil Kumar , Manvendra Singh and Ankit Chauhan ChED	202311017074	14.03.2023	17.03.2023	IP 555350, Dt. 28.11.2024
354.	A heaving point absorber wave energy converter for generating electricity from ocean energy	Sumana Ghosh , Mukesh Kumar Pathak , Shivam Gupta and Ravi Prakash ChED , EE (with ONGC)	202311017076	14.03.2023	19.05.2023	
355.	Method for preparing an edible ink for printing on edible and non-edible commodities	Kirtiraj K. Gaikwad and Lokman Hakim DPT	202311017518	15.03.2023	31.03.2023	
356.	Method and apparatus for testing fuel blends in industrial burners	Kirti Bhushan Mishra and Saumitra Mishra MIED	202311019464	21.03.2023	19.05.2023	
357.	A multilayered regenerative scaffold for ultra-deep wound healing and method of preparation thereof	Debrupa Lahiri , Souvik Ghosh and Partha Roy MMED & BSBE (With DRDO)	202311020038	22.03.2023	27.09.2024	

358.	Scaffold having porous beads and preparation method thereof and its application as three dimensional tumor model	P. Gopinath and Vinay Kumar BSBE	202311020553	23.03.2023	19.05.2023	
359.	Device and method for human thermal stress assessment using wearable kit	E. Rajasekar , Kapil Sinha, Sanjeev Krishnan R. and Subramanian G. APD	202311022622	28.03.2023	19.05.2023	IP 566975, Dt. 30.05.2025
360.	System and method for detecting sub-clinical mastitis (SCM)	Srinivas Kiran Ambatipudi BSBE	202311022623	28.03.2023	03.05.2024	
361.	A method for preparing dense boron carbide (B ₄ C)-silicon carbide (SiC) composite material at low temperature of sintering	B. V. Manoj Kumar and Sonali Vilas Jamale MMED	202311023113	29.03.2023	19.05.2023	
362.	Apparatus for fluid heat exchange	Manish Mishra and Suhas D. Jagtap MIED	202311023710	30.03.2023	23.02.2024	
363.	Smart wireless sensor network (WSN) device enabling continuous monitoring of remote location and method thereof	Rajib Kumar Panigrahi and Amrita Joshi ECE	202311023711	30.03.2023	03.05.2024	
364.	Registered Design A lab-based electromechanical pneumatic spray coating device	Gopinath Packirisamy , Ashish Kalkal, Rangadhar Pradhan, Deepanshu Sharma and Ayush Tiwari CON	382992-001	04.04.2023	07.07.2023	382992-001, Dt. 03.07.2023
365.	Registered Design Integrated electronic nose system for non-invasive lung cancer detection	Gopinath Packirisamy , Ashish Kalkal, Rangadhar Pradhan, Deepanshu Sharma and Ayush Tiwari CON	382993-001	04.04.2023	30.06.2023	382993-001, Dt. 30.06.2023
366.	Perovskite based flexible energy storage device	Monojit Bag and Ankur Yadav PHY	202311025776	05.04.2023	19.05.2023	IP 545990, Dt. 25.07.2024
367.	Frugal engineering-based machining device for compound machining	Akshay Dvivedi and Sahil Sharma MIED	202311026240	07.04.2023	19.05.2023	IP 560241, Dt. 13.02.2025

368.	Simultaneous electrochemical and electro discharge machining (SECDM) process	Akshay Divedi and Sahil Sharma MIED	202311026241	07.04.2023	19.05.2023	
369.	A configurable sram-based IN-MEMORY COMPUTATION (IMC) accelerator	Bishnu Prasad Das and Saragada Prasanna Kumar ECE	202311026726	11.04.2023	02.06.2023	
370.	A clamping system and method for cylindrical fuel cells based on polymer electrolyte membrane technology	Amit Chandrakant Bhosale and Sunil Kumar Sethy HRED	202311027133	12.04.2023	26.05.2023	IP 566116, Dt. 09.05.2025
371.	Biomimetic method to enhance quantum photovoltaic cell efficiency	Vishvendra Singh Poonia and Abhishek Chakraborty ECE	202311027173	12.04.2023	02.06.2023	
372.	A method of synthesis of tragacanth gum-based nano-nutraceuticals by encapsulation of beetroot juice and ocimum basilicum leaves as new health supplement	Gopinath Packirisamy and Dravin Pratap Singh CON	202311028625	19.04.2023	28.07.2023	
373.	Symmetrical labyrinthine acoustic metamaterial with unequal slit entries for improved low-frequency sound absorption	Sneha Singh and Golakoti Pavan MIED	202311030173	26.04.2023	26.05.2023	
374.	A multi-capacitor piezoelectric accelerometer for high sensitivity and lower noise	Sanjeev Manhas and Rahul Kumar Gupta ECE	202311030458	27.04.2023	Not published	
375.	Polyamide top-coated forward osmosis membrane, composition and process for preparation thereof	Abhijit Maiti , Satish Kumar Singh and Aaditya Pandey PPE	202311031090	01.05.2023	09.06.2023	IP 551273, Dt. 27.09.2024
376.	A system and method of transition from rectangular waveguide to perforated h guide	Nagendra Prasad Pathak , Arpit Kumar Baranwal and Akhilesh Mohan ECE	202311031176	02.05.2023	09.06.2023	
377.	A hot-rolled continuously cooled bainitic steel composition and its method of preparation	Sourav Das and Sonu Yadav MMED (With IIT Kharagpur and Suresh Gyan Vihar University)	202311031490	03.05.2023	06.10.2023	IP 566130, Dt. 09.05.2025

378.	Liquid tool based electrochemical machining texturing device and its process	Akshay Dvivedi and Maran R MIED	202311032529	08.05.2023	09.06.2023	
379.	An improved wood coating material	Yuvraj Singh Negi and Tulika Sharma PPE and ICFRE	202311033227	11.05.2023	23.06.2023	
380.	Method of utilization of sugarcane waste in large earthworks	Ravi S. Jakka and Jithin P. Zachariah EQD	202311035890	24.05.2023	02.02.2024	
381.	Measurement of strain and displacement of soil slopes for dynamic loads using Digital image correlation (DIC)	B.K. Maheshwari and Sukanta Das EQD	202311035891	24.05.2023	30.06.2023	
382.	Electrospun nanofiber hybrid bilayer indicator film and the use thereof	Shishir Sinha and Kajal Mishra ChED	202311036781	27.05.2023	30.06.2023	
383.	A system and method to locate partial discharge in transformer winding using electromagnetic time reversal	Ganesh Balu Kumbhar , Bhaveshkumar Rameshchandra Bhalja and Viral Bipinchandra Rathod EE	202311037658	31.05.2023	30.06.2023	
384.	Registered Design Multipurpose device for sustainable agriculture practices	Gopinath Packirisamy and Dravin Pratap Singh CON	387411-001	31.05.2023	17.10.2023	387411-001, Dt. 17.10.2023
385.	An engineered oxygenase gene, its encoded protein and application of the oxygenase gene	Pravindra Kumar , Jai Krishna Mahto, Ishani Mishra and Kuldeep Jangid BSBE	202311037878	01.06.2023	07.07.2023	
386.	A nanoformulation and method of preparation thereof	Kaushik Pal and Swati Singh MIED and CON	202311038569	05.06.2023	07.07.2023	IP 546426, Dt. 30.07.2024
387.	A water-soluble acrylic-styrene co-resin formulation and its method of synthesis	Dharm Dutt , Anurag Kulshreshtha, Akshay Dvivedi , Millie Pant and Brahma Prakash DPT, MIED and AMSC	202311038948	07.06.2023	21.07.2023	IP 564891, Dt. 03.04.2025

388.	Facilitating secured access to protected resources hosted in one cloud from another cloud	Sandeep Kumar and Manish Kumar Agrawal CSE with Oracle International Corporation	202344039967	12.06.2023	11.10.2024	
389.	A flow sensing apparatus and a RF flow sensor thereof	Nagendra Prasad Pathak and Deeksha Pandey ECE	202311040653	14.06.2023	21.07.2023	
390.	A method of preparation of sustainable and multiple recycled nanogenerator using segregated mixed plastic waste	Yuvraj Singh Negi, Kaushik Parida and Nikhil Ram Patra PPE	202311041298	16.06.2023	21.07.2023	
391.	An apparatus and method for directional solidification in casting of metallic materials using microwave energy	Apurbba Kumar Sharma and Parvej MIED	202311041299	16.06.2023	21.07.2023	
392.	A controlled nanoscale doping process for nitrogen (N) in silicon	Arup Samanta and Pooja Yadav PHY	202311042239	23.06.2023	21.07.2023	IP 551476, Dt. 30.09.2024
393.	A system and method for effective grounding and protection for DC microgrid	Manoj Tripathy and Chetan Srivastava EE	202311042424	24.06.2023	21.07.2023	
394.	A method of synthesis of Graphene Quantum Dots (GQD) from a waste unburnt carbon	Shishir Sinha and Devendra Rai ChED	202311043263	28.06.2023	21.07.2023	IP 562039, Dt. 06.03.2025
395.	Cellulose nanocrystals based photonic pigments from bagasse through structural coloration and its preparation thereof	Pradip K. Maji , Chhavi Verma and Chhajed Monika Surendra PPE	202311044842	04.07.2023	28.07.2023	
396.	An Acacia catechu (AC) and calcium carbonate (CC) based oxygen scavenging system (OSS)	Kirtiraj Kundlik Gaikwad and Prachi Jain DPT	202311044941	04.07.2023	04.08.2023	
397.	A one-step process to selectively isolate milk fat globules directly from milk using asymmetric polysulfone membrane via microfiltration	Srinivas Kiran Ambatipudi , Sujay Chattopadhyaya and Ayushi Kapoor BSBE & PPE	202311044942	04.07.2023	27.10.2023	IP 563719, Dt. 26.03.2025

398.	Biocompatible, bioresorbable and drug eluting porous magnesium scaffolds for repairing bone defects and method for its fabrication	Debrupa Lahiri , Partha Roy , Satish Jaiswal and Anshu Dubey MMED & BSBE	202311044943	04.07.2023	04.08.2023	
399.	A grant-free random access method for cell-free networks	Abhay Kumar Sah and Santosh Kumar singh ECE	202311045133	05.07.2023	04.08.2023	
400.	Self-powered broad-range flexible photodetector	Davinder Kaur and Krishan Kumar PHY	202311045165	05.07.2023	04.08.2023	
401.	A drug-eluting biopolymer-based lens and its method of preparation	Mayank Goswami , Gopinath Packirisamy and Babukuttan Sheela Unnikrishnan PHY & CON	202311045659	07.07.2023	04.08.2023	
402.	A sustainable oxygen scavenging formulation and its method of preparation	Pradip Kumar Maji , Kirtiraj Kundlik Gaikwad , Dakuri Ramakanth, Shiva Singh and Konala Akhila PPE & DPT	202311045660	07.07.2023	04.08.2023	
403.	A free form tool fabrication using flexible 3d printed mold and low melting fusible alloy for electrochemical machining process	Akshay Dvivedi and Maran R MIED	202311045661	07.07.2023	04.08.2023	
404.	A superhydrophobic substrate and a process for preparation thereof for separation of aqueous and non-aqueous mixtures	Pradip K. Maji , Chhajed Monika Surendra and Chhavi Verma PPE	202311046379	10.07.2023	04.08.2023	
405.	A process for removing/ reducing odor and VOC from recycled polymer	Sampat Singh Bhati and Pragti Saini DPT	202311047669	10.07.2023	11.08.2023	IP 563513, Dt. 25.03.2025
406.	Wood sponge-based sustainable and degradable piezoelectric nanogenerator	Kaushik Parida , Vishu Verma, Arpita Sahoo and Chhavi Sharma PPE	202311047444	14.07.2023	13.10.2023	
407.	A bi-layered electrospun nanofibrous scaffold and its method of preparation	Debrupa Lahiri , Megha Dhiman, Souvik Ghosh and Partha Roy MMED	202311050829	27.07.2023	31.05.2024	

408.	Flexible substrate with partially embedded back-contacts for robust electronic devices	Davinder Kaur and Habeebur Rahman PHY	202311049374	21.07.2023	11.08.2023	
409.	Composition for anticounterfeit ink liquid comprising crystalline cellulose nanocrystal and method of preparation thereof	Pradip K. Maji , Shiva Singh and Shakshi Bhardwaj PPE	202311049376	21.07.2023	11.08.2023	
410.	A flexible ferromagnetic shape memory alloys (FSMA) based magnetoelectric heterostructure and its method of fabrication	Davinder Kaur and Pradeep Kumar PHY	202311049465	21.07.2023	11.08.2023	
411.	A chromogenic fluorescent ink based rewritable paper and its method of preparation thereof	Soumitra Satapathi , Mohammad Adil Afroz and Pratul Nath P. P. PHY	202311049649	24.07.2023	11.08.2023	
412.	Mixing of recycled colored open end spinning mill waste with recycled pulp to produce sustainable packaging material	Sampat Singh Bhati , Dharm Dutt , S. Vijaya Kumar and Kamal Kumar DPT	202311049821	24.07.2023	11.08.2023	
413.	A composition and a process for hydrophobic coating on a substrate	Kirtiraj K Gaikwad and Praveen Kumar Kunam DPT	202311050133	25.07.2023	25.08.2023	
414.	Infill, modular and interlocking (IMI) AAC block wall-system for plumbing services in industrialized construction	Uttam Kumar Roy and Atul Kumar Biltoria APD	202311051678	01.08.2023	01.09.2023	
415.	A computed tomography (CT) imaging scanning system and methods using small number of detectors and single source	Mayank Goswami and Kajal Kumari PHY	202311052511	04.08.2023	13.10.2023	
416.	A method of recovery of palladium and silver from the waste multilayer ceramic capacitors	Nikhil Dhawan and Shaila Mir MMED	202311052935	07.08.2023	01.09.2023	
417.	Hydrogen production by aurivillius perovskite semiconductors from dye-polluted water	Tapas Kumar Mandal and Shubham Kumar CY	202311053718	10.08.2023	30.08.2024	

418.	Method of application of MICP to improve life of natural fiber reinforced soils	Ravi S. Jakka and Jithin P. Zachariah EQD	202311035892	24.08.2023	30.08.2024	
419.	Development of hybrid α -FeO(OH)- PES-PEOx blended hydrophilic forward osmosis membrane	Bhaskar Jyoti Deku , Gaurav Vaghela, Shubham Ketan Sharma and Priya Sonkar HYD	202311057597	28.08.2023	Not published	
420.	A method for fabrication of a α -iron based composite hydrophilic membrane for forward osmosis application	Bhaskar Jyoti Deku , Gaurav Vaghela, Shubham Ketan Sharma and Priya Sonkar HYD	202311057602	28.08.2023	Not published	
421.	A system and method for gain enhancement in pyramidal horn antenna using band pass gain boosting surface (GBS)	Gowrish Basavarajappa and Kalyan Mohan Patnaik ECE	202311057857	29.08.2023	06.10.2023	
422.	A low cost mili fluidic device and method for production of double emulsion	Sumana Ghosh , Ravi Prakash and Pushpender ChED	202311057858	29.08.2023	08.12.2023	
423. .	System and method for estimating void ratio of soil using digital image processing	B.K. Maheshwari and P. Gowtham EQD	202311058087	30.08.2023	29.09.2023	IP 548753, Dt. 27.08.2024
424.	An analog predistortion (APD) assisted multiple-input-multiple-output (mimo) predistorter system and method	Meenakshi Rawat , Shipra and Ashish Kumar ECE	202311060561	08.09.2023	27.10.2023	
425.	Lightweight, multilayered all-polymer composite bullet-resistant armour	Debrupa Lahiri , Krishnakant Phand and Indranil lahiri MMED	202311060562	08.09.2023	Not published	
426.	A micro air pluviator for the preparation of reconstituted specimens in triaxial compression tests	Satyendra Mittal and Arpit Jain CED	202311061533	13.09.2023	27.10.2023	

427.	A flexible supercapacitor of molybdenum nickel nitride for high-energy density storage application and preparation method thereof	Davinder Kaur and Bhanu Ranjan PHY	202311061534	13.09.2023	13.10.2023	
428.	Registered Design Dental implants (set) having porous TPMS architecture of Schwarz D	Varun Sharma and Deepak Sharma MIED	395364-001	18.09.2023		387411-001, Dt. 17.10.2023
429.	Aurivillius perovskite photocatalysts, their preparation method and process of persistent organic pollutants removal from contaminated water	Tapas Kumar Mandal and Shubham Kumar CY	202311065213	28.09.2023	20.10.2023	IP 538247, Dt. 16.05.2024
430.	A reconfigurable system and method for testing and validation of the power electronics circuit and the control for power electronic converter systems	Sohom Chakrabarty and Samsaptak Ghosh EE	202311065275	28.09.2023	15.12.2023	
431.	A low-density steel with excellent strength-elongation combination and its method of preparation thereof	Sadhan Ghosh , Sourav Das , Pankaj Rawat and Sumit Bhan MMED	202311065276	28.09.2023	15.12.2023	
432.	An in-memory computation (IMC)-based hardware accelerator system using a configurable digital-to-analog converter (DAC) and method capable of performing multi-bit multiply-and-accumulate (MAC) operations	Bishnu Prasad Das and Prasanna Kumar Saragada ECE	202311065832	29.09.2023	15.12.2023	
433.	A silane shield advanced superhydrophobic membrane for desalination	Bhaskar Jyoti Deka , Nagendra Kumar Jilagam and Gaurav Vaghela HYD	202311067499	09.10.2023	11.10.2024	
434.	A method of preparing plasma-engineered fluorine free silanes for enhancing superhydrophobicity of membranes	Bhaskar Jyoti Deka , Nagendra Kumar Jilagam and Gaurav Vaghela HYD	202311067500	09.10.2023	11.10.2024	
435.	Design and development of low-temperature processed hexagonal phase of NZSP for solid-state NA-ion batteries	Yogesh K Sharma , Brahma Prakash Dubey And Meetesh Singh PHY	202311067937	10.10.2023	22.12.2023	IP 548625, Dt. 26.08.2024
436.	A slotted waveguide for dual-band radio frequency orbital angular momentum (RF-OAM) beam generation	Amalendu Patnaik and Yuvraj Baburao Dhanade ECE	202311069081	13.10.2023	24.11.2023	

437.	A shaped dielectric antenna for W-band applications	Nagendra P Pathak , Akhilesh Mohan and Arpit Kumar Baranwal ECE	202311069082	13.10.2023	24.11.2023	
438.	System and method for data-assimilated geophysical site investigation	Ritesh Kumar EQD	202311070183	16.10.2023	24.11.2023	IP 564421, Dt. 28.03.2025
439.	A hybrid system and method for the treatment of electroplating effluent	Himanshu Joshi and Jagdeesh Kumar HYD	202311070800	17.10.2023	10.05.2024	
440.	A system and method for fabrication of all perovskites integrated photo-rechargeable energy storage device	Monojit Bag , Ankur Yadav and Ankush Saini PHY	202311071220	19.10.2023	03.05.2024	
441.	A spray coated graphene based material used for transparent electro-static dissipative coating and its method of preparation	Indranil Lahiri and Rita Joshi MIED, CON (With Visvesvaraya Technological University and ISRO)	202311071221	19.10.2023	25.10.2024	
442.	A microbial consortium for simultaneous removal of nutrients and major organic pollutants from polluted water	Himanshu Joshi and Monika Simon HYD	202311072223	23.10.2023	01.11.2024	
443.	Flexible bulk acoustic resonator tunable with magnetic and electric fields	Davinder Kaur and Diksha PHY	202311073343	27.10.2023	24.11.2023	
444.	Layered double hydroxide-based nanocomposite for electrochemical hydrogen storage and method of preparation thereof	Ashish Yadav and Himanshu Chauhan ChED	202311075027	03.11.2023	24.11.2023	IP 566053, Dt. 07.05.2025
445.	A process of photoacid-assisted esterification of carboxylic acids	Anuj Sharma and Jaya Tripathi CY	202311075970	07.11.2023	05.01.2024	
446.	Registered Design A 3D-printed cell loading cassette	Gopinath Packirisamy , Soumyadeep Basak, Ayush Tiwari and Deepanshu Sharma BSBE & CON	399901-001	14.11.2023	Not published	399901-001, Dt. 16.05.2024

447.	Registered Design A 3D-printed, compact, wirelessly-controlled, uniaxial cyclic mechanical stretching device	Gopinath Packirisamy , Soumyadeep Basak, Ayush Tiwari and Deepanshu Sharma BSBE & CON	399902-001	14.11.2023		399902-001, Dt. 16.05.2024
448.	Systems and methods for hyperspectral image processing in remote sensing using reflexivity based approximate computing	Sparsh Mittal ECE with TCS	202321078005	16.11.2023	Not published	
449.	A system and method for artificial intelligence (AI) driven fully automated compact 3D ultrasound computed tomography (UCT) system	Mayank Goswami and Ankur Kumar PHY	202311078074	17.11.2023	29.12.2023	
450.	Pre-scanning assembly design method for computed tomography (CT) imaging	Mayank Goswami PHY	202311079548	23.11.2023	29.12.2023	
451.	A wireless edge computing-based adaptive traffic control system with real-time vehicle tracking and cloud integration	Amit Agarwal , Dhish Kumar Saxena , Karthik Krishnan and Dinesh Kumar R CED & MIED	202311079549	23.11.2023	29.12.2023	
452.	Method for synthesizing C-3 substituted Quinoxalin-2 (1H)-one compounds	Anuj Sharma & Nihal Singh CY	202311081034	29.11.2023	29.12.2023	
453.	Wideband doherty power amplifier with device parasitic compensation and impedance inversion	Karun Rawat , Mohammad Abdul Shukoor and Ahmad Zakaria Ahmad ECE (With WIPRO)	202341082863	05.12.2023	Not published	
454.	An apparatus and process to synthesize propylene carbonate (PC) from propylene oxide (PO) and carbon dioxide (CO ₂) using a metal oxide catalyst	Vimal Chandra Srivastava , Vimal Kumar, Shishir sinha and Anag Katiyar ChED	202311082963	05.12.2023	12.01.2024	
455.	A process for the synthesis of non-isocyanate polyurethanes from propylene carbonate	Shishir Sinha , Vimal Chandra Srivastava and Ishwar Saran ChED	202311082964	05.12.2023	12.01.2024	
456.	A flexible, durable, and fire-resistant cellulose nanofiber aerogel composites for thermal insulation applications	Pradip K. Maji , Shakshi Bhardwaj, Shiva Singh, Monika Chhajed and Keshav Dev PPE	202311082965	05.12.2023	12.01.2024	

457.	A cost-effective route for the synthesis of pyrimidine derivatives by a novel co-based catalyst	Kaushik Ghosh and Prasant CY	202311083565	07.12.2023	12.01.2024	
458.	An artificial intelligence (AI) based adaptive prompt learning assisted device and method for effective mental health	Tharun Kumar Reddy Bollu and Kumar Gaurav ECE	202311083935	08.12.2023	12.01.2024	
459.	A system and method for depression stage detecting human-computer interaction	Tharun Kumar Reddy Bollu and Srikireddy Dhanunjay Reddy ECE	202311083936	08.12.2023	12.01.2024	
460.	Tri-reforming of methane to syngas over nickel zirconia catalyst	Prakash Biswas , Prateek Kumar Jha , Akansha Pandey and Arisha Sharma ChED	202311083937	08.12.2023	12.01.2024	
461.	Thyristor guided converter for statcom application	Siba Kumar Patro and Shourya Sharma EE	202311084115	09.12.2023	12.01.2024	
462.	A bio-polymeric film fabrication and its application thereof	P. Gopinath , Unnikrishnan B S and Asmita Mojumdar BSBE and CON	202311084237	11.12.2023	12.01.2024	
463.	Three-dimensional (3D)-printed cell loading cassette	Gopinath Packirisamy , Soumyadeep Basak, Ayush Tiwari and Deepanshu Sharma BSBE & CON	202311085231	13.12.2023	12.01.2024	
464.	A polymeric drug-releasing system comprising a hydrogel and a method of developing the same thereof	Debrupa Lahiri , Chandra Khatua and Partha Roy MMED, CON & BSBE	202311088160	22.12.2023	23.02.2024	
465.	A 3D-printed, compact, wirelessly-controlled, uniaxial cyclic mechanical stretching device and method thereof	Gopinath Packirisamy , Soumyadeep Basak, Ayush Tiwari and Deepanshu Sharma BSBE & CON	202311089120	27.12.2023	23.02.2024	

466.	A method for improved rice line with deeper penetrating roots, larger grains, and increased amino acid content	Shri Ram Yadav, Debabrata Sircar, Khrang Khrang Khunggur Mushahary and Pratibha Demiwal BSBE	202311089997	29.12.2023	31.05.2024	
Year 2023	131					
467.	Cutting tool geometry to enhance the machining performance of green compacts	Vikram Dabhade and Harshal Kulkarni MMED	202411000571	03.01.2024	02.02.2024	
468.	System for autonomous vehicular communication based on a blockchain network and method thereof	Neetesh Kumar and Indukuri Mani Varma CSE	202411000589	03.01.2024	02.02.2024	
469.	A nano-catalytic membrane reactor for hazardous dye degradation	Krishna Mohan Poluri and Khusboo Rani Singh BSBE	202411003008	16.01.2024	09.02.2024	
470.	Biodegradable oxygen scavenging films and its preparation method thereof	Pradip K. Maji, kirtiraj K. Gaikwad, Dakuri Ramakanthand Akhila Konala PPE & DPT	202411003604	18.01.2024	09.02.2024	
471.	A wireless edge-computing-based real time transit passenger counting system and method	Amit Agarwal, Manan Gupta, Hemanth Vasireddy and Aditya Kora CED & ECE	202411003605	18.01.2024	09.02.2024	
472.	System and method to predict trajectory by waypoint dropping	Pravendra Singh and Pranav Singh Chib CSE	202411004396	22.01.2024	02.02.2024	
473.	A smart solid-state relay limiting the inrush current	Thanga Raj Chelliah, Sonal K. Thengane, Vishal undre, Vijay Mohale and Perwez Alam WRDM & HRED	202411005973	30.01.2024	16.02.2024	
474.	Chimeric Neuraminidase tetramers as universal influenza vaccine candidates	Shaily Tomar BSBE (with ICAR)	202411006826	01.02.2024	Not published	

475.	A system and method for a reaction hydraulic turbine operating at any load condition	Bhupendra Kumar Gandhi and Sandeep Kumar MIED	202411008044	06.02.2024	01.03.2024	
476.	A portable system and method for in-situ tensile testing in high pressure gas environment including hydrogen	Sourav Das , Sumeet Mishra , Rajib Chowdhury and Shardendu Shukla MMED & CED	202411008299	07.02.2024	01.03.2024	
477.	Apparatus and method for producing recycled waste plastic modified bitumen	Praveen Kumar , Nikhil Saboo and Soumyadeep Deb CED	202411008363	07.02.2024	16.02.2024	
478.	A biodegradable polymeric composite with enzymatic degradation for ureteral stent and its methods of preparation	Debrupa Lahiri , Gunjan Kaushik, Anil Mandhani and Partha Roy MMED & BSBE	202411011898	20.02.2024	15.03.2024	
479.	AI-driven intelligent process for multi-spectral non-invasive 3d imaging system	Mayank Goswami PHY	202411011899	20.02.2024	08.03.2024	
480.	A method and a system for enhancing trajectory prediction in dynamic multi-agent environments	Pravendra Singh and Pranav Singh Chib CSE	202411012334	21.02.2024	01.03.2024	
481.	Antibacterial, superhydrophobic and highly transparent coated glass	Arup Samanta , Saugata Hazra and Deepika Singh PHY & BSBE	202411015039	29.02.2024	08.03.2024	
482.	A constant switching frequency based current controller for grid connected 3-phase voltage source inverter with L or LCL filter	Anubrata Dey , Biswarup Das and Ravi Varma Chavali EE	202411016085	07.03.2024	26.04.2024	
483.	Sulfur encapsulated free-standing carbon cathode electrode for metal-sulfur batteries and its method of preparation thereof	Ashwini Kumar Sharma , Poonam Rani and Abhishekh Dharmesh ChED	202411016185	07.03.2024	05.04.2024	
484.	Procedure for integrating sugarcane molasses into SBS modified bitumen	Nikhil Saboo and Dheeraj Mehta CED	202411016731	08.03.2024	05.04.2024	

485.	A four-point bend fatigue testing fixture with a large span of up to two meters	Vidit Gaur , Litton Bhandari and Abhinav Pandey MIED	202411018694	14.03.2024	12.04.2024	
486.	A system and method for feature enhancement with channel fusion in convolution for image classification	Brajesh Kumar Kaushik , Amit Monga, Nehete Hemkant, Partha Kaushik and Rohith Varma Buddaraju ECE & CSE	202411020373	19.03.2024	10.05.2024	
487.	A multi domain pipeline system and method to optimally identify recharge zone in arid craton	Pallavi Chattopadhyay and Ravi Shankar Dubey ES	202411020965	20.03.2024	03.05.2024	
488.	A process for co-culturing microalgae and yeast in RO reject water for producing protein-rich biomass	Sanjeev Kumar Prajapati , Mamta Bhandari and Shailesh Kharkwal HRED	202411021100	20.03.2024	26.04.2024	
489.	Assault trackway planks and system from composite prepared from waste plastic and other waste	Prasenjit Mondal , Hemant Goyal and Yash Dua ChED	202411021654	21.03.2024	03.05.2024	
490.	A transparent, hydrophobic, and anti-corrosive gallium nitride coatings and method to fabricate gallium nitride on glass thin films	Ramesh Chandra , Ravikant Adalati, Ananya Bansal and Pramod Kumar IIC	202411027386	02.04.2024	10.05.2024	
491.	A method for achieving threshold adaptation in leaky integrate and fire (LIF) neuron using a magnetic domain wall (DW) device	Brajesh Kumar Kaushik and Arshid Nisar ECE	202411027387	02.04.2024	03.05.2024	
492.	System and method for continuous oxidative torrefaction of biomass	Sonal K. Thengane and Abdul Rehman HRED	202411027656	02.04.2024	03.05.2024	
493.	A system and method for drone onboard real-time crowd and vehicle detection, counting and mapping	Dharmendra Singh and Laxman Singh Khangarot ECE	202411028445	06.04.2024	10.05.2024	
494.	A composite and method of preparation treated laterite loaded biochar composite to produce arsenic free food and removal of NO ₂ from air	Abhijit Maiti , Prashant Singh and Abhishek Verma PPE	202411030117	15.04.2024	31.05.2024	
495.	A method for the recovery of mixed rare earth oxides from waste neodymium-iron-boron magnets	Nikhil Dhawan and Rohit Gahlot MMED	202411030942	17.04.2024	31.05.2024	
496.	Method for polyamine detection in oral cancer	Gopinath Packirisamy , Asmita Mojumdar and Unnikrishnan B.S	202411031154	18.04.2024	10.05.2024	

		BSBE & CON				
497.	A sustainable crosslinked shellac-based barrier coating on molded pulp products for rigid packaging	Vibhore Kumar Rastogi and Arihant Ahuja DPT	202411031910	22.04.2024	31.05.2024	
498.	A single-phase five-level transformerless solar photovoltaic grid-connected inverter	Anubrata Dey and Sanket Subhash Tambe EE	202411034406	30.04.2024	17.05.2024	
499.	Nickel-alumina catalyst derived from metal-organic frameworks (MOFs) precursors for tri-reforming of methane to hydrogen-rich syn-gas	Prakash Biswas , Arisha Sharma and Akansha Pandey ChED	202411036208	07.05.2024	17.05.2024	
500.	System and method for providing location guidance by detecting and identifying targets within infrared images	Pravendra Singh and Pranav Singh Chib CSE	202411036211	07.05.2024	Not published	
501.	Techniques for a self-learning scalable event broker	Sandeep Garg and Manish Manish Agrawal CSE (with Oracle)	202441036239	07.05.2024	Not published	
502.	Converter for converting multipoint medium voltage direct current to single point high voltage direct current	Siba Kumar Patro and Chandan Kumar EED	202411036520	08.05.2024	17.05.2024	
503.	System and method for enhancing fairness in imaging applications through mutual correction and groupwise intra-class sample interaction	Pravendra Singh , Anshul Pundhir and Balasubramanian Raman CSE	202411037096	10.05.2024	Not published	
504.	System and method for diagnosing medical images using image segmentation model	Pravendra Singh and Suruchi Kumari CSE	202411037298	11.05.2024	Not published	
505.	Method of producing bio-bitumen through modification of waste engine oil residue as bitumen extender for roads	Satish Chandra and Bhavesh Bhambhani CED (with CSIR-CRRI)	202411038015	14.05.2024	31.05.2024	
506.	A mimo antenna for W-band and beyond	N. P. Pathak , Arpit Kumar Baranwal and Akhilesh Mohan ECE	202411038016	14.05.2024	31.05.2024	

507.	Aerosol foam assisted nanostructured lipid carriers for the treatment of psoriasis	Ramasare Prasad and Amit Kumar Srivastava BSBE	202411038524	16.05.2024	31.05.2024	
508.	Ferroelectric field effect transistor and method to perform the multi-bit operation using the ferroelectric field effect transistor	Avirup Dasgupta and Abhishek Kumar ECE	202411038573	16.05.2024	31.05.2024	
509.	A flexible metasurface structure for large incident angles	Sachin Kumar Srivasta and Jhuma Pan PHY	202411038574	16.05.2024	Not published	
510.	An improved block masonry for enhancing earthquake-resisting features	Sanjay Chikermane and Survesh Chetiva CED	202411038575	16.05.2024	31.05.2024	
511.	Method for developing a lane departure warning system for providing warnings based on severity levels	Pushpa Choudhary , Manoranjan Parida , Akshay Gupta, Shreyansh and Priyanshu Pansari CED	202411039413	20.05.2024	31.05.2024	
512.	A real-time, wireless crowd alert and management system and a method thereof	Amit Agarwal and Karthik Krishnan O CED	202411039695	21.05.2024	07.06.2024	
513.	A method of synthesis of Lithium Lanthanum Zirconium Oxide (LLZO) and doped LLZO, solid-state electrolytes for Li-ion battery	Paritosh Mohanty and Bishnupriya Swain CY	202411040069	22.05.2024	07.06.2024	
514.	A method for detecting antimicrobial resistant bacteria from environmental samples	Saugata Hazra , Kunal Dhankhar, Niteesh Kumar, Subhecchha Bhaidya and Rajsekhar Adhikary BSBE & PPE	202411040598	22.05.2024	07.06.2024	
515.	System and method for predicting trajectories to navigate autonomous entities by performing trajectory imputation	Pravendra Singh and Pranav Singh Chib CSE	202411041066	27.05.2024	Not published	
516.	Reconfigurable low-intermediate frequency harmonic mixing receiver for wireless communication systems	Darshak Bhatt and Anupam Kumari ECE	202411041139	27.05.2024	28.06.2024	
517.	Reconfigurable receiver with programmable filters and amplifiers for enhanced RF performance in wireless communication systems	Darshak Bhatt and Anupam Kumari ECE	202411041710	29.05.2024	21.06.2024	

518.	Registered Design A novel S-shaped cross-section tape spring	S.H. Upadhyay and Priyankkumar Patel MIED	418328-001	29.05.2024	Not published	
519.	Method and system for developing edible cup	Kirtiraj K Gaikwad , Bhushan Meshram and Prachi Jain DPT	202411042149	30.05.2024	07.06.2024	
520.	A graphene assisted surface plasmon resonance based refractive index sensor	Vipul Rastogi and Mohd Uwais Phy	202411043106	03.06.2024	14.02.2025	
521.	A protective coating for surfaces of wood and wood-based materials and its method of preparation	Gaurav Manik and Tulika Sharma PPE	202411043743	06.06.2024	21.06.2024	
522.	A sustainable roof-top harvested rainwater filtration system based on low-cost single stage vertical filter	Deepak Khare and Sakshi Gupta WRDM	202411044016	06.06.2024	Not published	
523.	A Poly Vinyl Alcohol (PVA)-based hydrogel lens for the management and treatment of VEGF related diseases its method preparation	Mayank Goswami and Sangita Mahapatra PHY	202411045159	11.06.2024	21.06.2024	
524.	A machine learning enabled SERS sensing system and method for single-shot, rapid detection and classification of respiratory viruses	Sachin Kumar Srivastava , Partha Roy , Arti Yadav and Rakesh Naik PHY & CSE	202411045160	11.06.2024	22.11.2024	
525.	Accidental quasi-bound states in the continuum with extremely high Q factors in visible range: sensing and switching applications	Sachin Kumar Srivastava and Swapnil Khurana PHY	202411046138	14.06.2024	Not published	
526.	A multi-functional system for providing co-axial to waveguide transitions for power combining applications	Gowrish Basavarajappa , Karun Rawat and Manoj Kumar ECE	202411047134	19.06.2024	05.07.2024	
527.	A super hydrophilic/ super oleophobic cotton fabric for oil-water separation and its method of preparation thereof	Pradip K. Maji , Vinay Kumar Gupta, Dakuri Ramakanth and Shakshi Bhardwaj PPE	202411047641	20.06.2024	05.07.2024	
528.	A system and method for mitigation of rotating vortex rope in hydro turbines	Bhupendra Kumar Gandhi , Sandeep Kumar and Subodh Khullar MIED	202411048080	22.06.2024	05.07.2024	
529.	S-shaped cross-section tape spring with enhanced deployment characteristics	S.H. Upadhyay and Priyankkumar Patel MIED	202411048081	22.06.2024	05.07.2024	

530.	Multiple input multiple output (MIMO) radar system for through-wall imaging (TWI)	Dharmendra Singh , Vineet Singh, Suman Anand, Pravin Mali and Shailza Gotra ECE	202411048736	25.06.2024	02.08.2024	
531.	Registered Design SH wave source with mechanical hitter	Anand Joshi , S.H. Upadhyay , Saurabh Sharma, Mohit Pandey and Jyoti Singh ES and MIED	421487-001	27.06.2024		
532.	A system and method for removing pesticides from water through advanced oxidation hybrid process	Sumana Ghosh , Prasenjit Mondal , Priti Kumari and Pushpender Chaudhary ChED	202411050667	02.07.2024	19.07.2024	
533.	Method for inducing electrical and magnetic properties in a substrate	Vivek Kumar Malik , Parvesh Chander, Alisha and Nagendra Prasad Pathak PHY & ECE	202411051402	04.07.2024	19.07.2024	
534.	Nasicon-type solid-state electrolyte for sodium-based batteries, and a method of preparing the same	Yogesh Sharma and Shubham Rawat PHY	202411052215	08.07.2024	26.07.2024	
535.	A solar-powered decentralized fertilizer production-cum-irrigation units	Pratham Arora , Rhythm Singh , Amit C. Bhosale and Nitish Srivastava HRED	202411052393	09.07.2024	28.03.2025	
536.	Process for the purification of polyclonal antibodies and applications thereof	Prabhat Kumar Mandal , Manali Ganguly, Sandhya Rai, Gopal Sarkar, Sujay Kundu and Suman Singh BSBE	202411052502	09.07.2024	18.10.2024	
537.	Criss-cross winding pattern for reducing parasitic capacitance in planar winding assembly	Anubrata Dey , Shashank Mishra and Priyangsi Dey EE	202411053600	13.07.2024	26.07.2024	
538.	Self adaptive frequency support control and method of increasing efficiency for variable head pumped storage hydro-generation unit	Thanga Raj Chelliah , Abdul Saleem Mir , K.S. Kasiviswanathan , Ritu Tiwari and Pattabiraman B WRDM & EE	202411054536	17.07.2024	16.08.2024	
539.	A multi-phase electromagnetic coupler for contactless charging of electric vehicles	Apurv Kumar Yadav and Sukumar Das EE	202411054537	17.07.2024	09.08.2024	

540.	A novel covalent organic framework adsorbent beads for Rhodamine B removal	Bhaskar Jyoti Deka , Ravindra Pandey , Yogesh Kumar and Shubham Ketan Sharma CY, CON & HYD	202411055455	20.07.2024	28.03.2025	
541.	A method of synthesizing covalent organic framework based polymer beads	Bhaskar Jyoti Deka , Ravindra Pandey , Yogesh Kumar and Shubham Ketan Sharma CY, CON & HYD	202411055456	20.07.2024	28.03.2025	
542.	A secure advanced driver assistance system and method for mobile autonomous vehicles for deploying trusted quality of service in autonomous vehicles through software-defined networking controller	Neetesh Kumar , Shikhar Vashistha and Indukuri Mani Varma CSE	202411055457	20.07.2024	30.08.2024	
543.	An agricultural waste-based biodegradable composition as an anticounterfeiting sensor or as a food freshness indicator	Pradip K. Maji , Shiva Singh, Keshav Dev, Shakshi Bhardwaj and Dakuri Ramkanth PPE	202411056370	24.07.2024	16.08.2024	
544.	Compositions of nail lacquer and their method of production	Basheshwer Prasad and Rishabh Didel ChED	202411056644	25.07.2024	09.08.2024	
545.	A hybrid-bridge based isolated DC-DC converter for multiport electric vehicle charging infrastructure	Siba Kumar Patro , Princekumar Ajaybhai Vaghasiya and Chandan Kumar EE	202411057045	26.07.2024	18.10.2024	
546.	Ternary blends for improved performance and emissions characteristics in Spark Ignition (SI) engines	Kirti Bhushan Mishra and Rajeeb Kumar Upadhyay MIED	202411057302	29.07.2024	16.08.2024	
547.	Wien Velocity filter for broad ion beams	Puneet Jain , Manjeet and Manish Kumar Vishwakarma PHY	202411057836	30.07.2024	18.10.2024	
548.	Corrosion resistance polymeric coating	Anasuya Bandyopadhyay PPE	202411057963	31.07.2024	16.08.2024	
549.	A process for the preparation of β - ketosulfone	Anuj Sharma and Barakha Saxena CY	202411058425	01.08.2024	18.10.2024	

550.	A method of modelling a human-body model of a 95 th percentile Indian male	Shailesh Govind Ganpule and Vaibhav Kulkarni MIED	202411059097	05.08.2024	18.10.2024	
551.	Novel nanoplastic and its method of preparation thereof	Krishna Mohan Poluri , Emansi Yadav, Mukesh Kumar Meher and Jasasmita Das BSBE & CON	202411059189	05.08.2024	23.08.2024	
552.	An electrocatalyst for air cathode electrode of a metal-air battery and a process of preparation thereof	Tapas Kumar Mandal and Sujan Sen CY	202411059717	07.08.2024	18.10.2024	
553.	A parallel conductor reduction process for impedance calculation of distance relays utilized in parallel multi-conductor and traction systems	Bhavesh Kumar R.Bhalja and Jitendra Prajapati EE	202411060023	08.08.2024	30.08.2024	
554.	Smart water quality monitoring and prediction system and method using IOT and machine learning	Basant Yadav , Veera Venkata Bhavani Sivannarayana Kola and Abhay Raj WRDM	202411060792	12.08.2024	30.08.2024	
555.	Telluride and mxene-based electrode for supercapacitor and method of preparation thereof	Ashish Yadav and Antra Choubey ChED	202411062191	16.08.2024	18.10.2024	
556.	Damping devices to mitigate the impact of seismic events	Pankaj Agarwal and Shibi Rajaram EQD	202411062246	16.08.2024	30.08.2024	
557.	SH wave source with mechanical hitter	Anand Joshi , Saurabh Sharma, Mohit Pandey, Jyoti Singh and Sanjay H. Upadhyay ES & MIED	202411062304	16.08.2024	18.10.2024	
558.	A system and method of nano-carbon coating CI engine cylinder inner surface for improving wear resistance	Brainerd Samuel Sundar Daniel , Himanshu Panjiar and Rakesh Parkash Gakkhar MMED & MIED	202411062305	16.08.2024	30.08.2024	
559.	An artificial intelligence (AI) based system and method to automate engineering design	Vidit Gaur and Abhinav Pandey MIED	202411062306	16.08.2024	30.08.2024	

560.	Polyclonal antibody against L1ORF2P antigen and a method of preparing the same thereof	Prabhat Kumar Mandal , Gopal Sarkar and Sujoy Kundu BSBE	202411062827	20.08.2024	30.08.2024	
561.	A method of electrochemical doping of hybrid halide perovskites and electrolyte gated optoelectronic device using the same	Monojit Bag , Tanuj Kumar, Ramesh Kumar and Mohit Kumar PHY	202411064063	24.08.2024	20.09.2024	
562.	A low-cost air cooled cabinet for vegetable vending carts	Sunil Kumar Singal , Manish Mishra and Sonal Keshawrao Thengane HRED, MIED	202411064064	24.08.2024	20.09.2024	
563.	A process for fabricating a self-powered near infrared photodetector	Santanu Pradhan and Akshaykumar Salunke CON	202411064616	27.08.2024	18.10.2024	
564.	A printed patterns of thin film heaters on a quartz substrate using silver nanoparticle ink and its method of printing	Sumathi Parasuraman and Nikhila Patil EE (With IIT Madras)	202411065129	28.08.2024	Not published	
565.	A cellulose-based biodegradable hybrid adsorbent for selective phosphate and nitrate recovery from aqueous solutions	Sudipta Sarkar , Pradip K. Maji and Priya E CED & PPE	202411066297	02.09.2024	Not published	
566.	High voltage level modular converter for medium and high power applications	Pramod Agarwal , Jyoti Ranjan Dash, Asad Hussain and Rohit Raj EE	202411066310	02.09.2024	20.09.2024	
567.	An electrocatalyst for hydrogen gas production and sulfur recovery and its method of preparation synthesis	Tapas Kumar Mandal , Rahul, Ritik Payak and Kunal Shaw CY, EE and PHY	202411066843	04.09.2024	Not published	
568.	Registered Design SH wave source with mechanical hitter	Shamik Basak , Vinith S. S. and Sarthak Verma MIED	429360-001	05.09.2024		
569.	A stainless steel core buckling restrained brace and its application in seismic retrofitting of reinforced concrete frame	P. C. Ashwin Kumar , Devyani Tewatia, Krishna Murari, Tamilselvan Nambirajan, Aashima Sharma and Anirudh Painuly EQD	202411067725	07.09.2024	15.11.2024	
570.	A three-dimensional carrageenan-based aerogel, a method of preparing the same, and uses thereof	Krishna Mohan Poluri and Khushboo Rani Singh BSBE	202411069675	14.09.2024	04.10.2024	

571.	A road hazard detection proficiency testing system and method thereof	Indrajit Ghosh & Anurag Thombre CED	202411069971	16.09.2024	04.10.2024	
572.	Bimetallic telluride and mxene-based supercapacitor	Ashish Yadav and Antra Choubey ChED	202411070635	18.09.2024	22.11.2024	
573.	Registered Design A re-configurable power electronics converter	Pramod Agarwal , Jyoti Ranjan Dash,Rohit Raj and Asad Hussain EE	430839-001	18.09.2024		
574.	A multi-purpose seating device	Sonal Atreya , Abhishek Srivastava and Prakhar Singh Chauhan DOD	202411070952	19.09.2024	Not published	
575.	Registered Design Cross-legged support chair	Sonal Atreya , Abhishek Srivastava and Prakhar Singh Chauhan DOD	431004-001	19.09.2024		431004-001, Dt. 19.11.2024
576.	An adjustable field -strength, 3D-printed, wirelessly controlled magnetic actuation device and its application thereof	Gopinath Packirisamy and Soumyadeep Basak BSBE	202411072161	24.09.2024	22.11.2024	
577.	A method of processing of multi-layer packaging waste	Narapureddy Siva Mohan Reddy and Ayush Dave ChED	202411072960	26.09.2024	18.10.2024	
578.	A composition for protection against infections by multidrug-resistant Acinetobacter Baumannii and its method of preparation	Ranjana Pathania , Perwez Bakht, Arsalan Hussain and Shivam Pandey BSBE	202411072961	26.09.2024	Not published	
579.	Registered Design A 3D-printed, wirelessly controlled, in-vitro, magnetic actuation device	Gopinath Packirisamy and Soumyadeep Basak BSBE	431848-001	26.09.2024		
580.	A wearable device and its method to combat essential tremor in the hand	Sanjeev Manhas ECE (with AIIMS Rishikesh)	202411073477	28.09.2024	03.01.2025	
581.	A cellulose aerogel based composite and a process for its preparation	Pradip K. Maji , Shakshi Bhardwaj, Shiva Singh and Nitesh Choudhary PPE	202411077028	10.10.2024	03.01.2025	

582.	A dual action toaster and sandwich grill	Zillur Rahman and Bhukya Akshaya DOMS	202411077089	10.10.2024	Not published	
583.	Registered Design Continuous supercritical water oxidation reactor unit	N. Siva Mohan Reddy ChED	434341-001	15.10.2024	Not published	
584.	A fabrication method for generating a multicolor two dimensional spatial array	Arnab Datta , Mandeep Jangra and Jasvinder Singh ECE	202411078580	16.10.2024	22.11.2024	
585.	2D-sliding discrete fourier transform (DFT) kernel based analog ic for edge detection	Sumathi Parasuraman and Varun Kumar EE	202411079061	16.10.2024	Not published	
586.	Method of wastewater treatment using algae sludge inoculum and by suppressing nitrification activity	Raja Chowdhury and Sahil Tanwar CED	202411080371	16.10.2024	07.03.2025	
587.	A method of reinforcing friction stir welded joints	Vidit Gaur and Sumit Choudhary MED	202411080234	22.10.2024	22.11.2024	
588.	A low-cost tunable S-band and X-band RF source and its method for microwave analysis	Gowrish Basavarajappa ECE	202411081326	22.10.2024	15.11.2024	
589.	Reconfigurable cordic architecture with non power-of-2 angle set of microrotations and method thereof	Bishnu Prasad Das and Anu Verma ECE	202411081147	24.10.2024	27.12.2024	
590.	An active gate driving system and method for the voltage balancing of series connected GaN devices for higher voltage application	Apurv Kumar Yadav , Siddhartha Suyal and Shambhunath Dutta EE	202411081557	25.10.2024	15.11.2024	
591.	Method and apparatus for automatic modulation selection and recognition for the modern radio access networks	Abhay Kumar Sah and Debajit Choudhury ECE	202411081569	25.10.2024	27.12.2024	
592.	System and method for AI-based 3D assessment of pulmonary functions using electrical impedance tomography vest	Mayank Goswami and Vaishali Sharma Phy	202411084180	04.11.2024	15.11.2024	
593.	Edible coating composite, method of preparation and its application thereof	Gopinath Packirisamy and Dravin Pratap Singh BSBE & CON	202411084722	05.11.2024	15.11.2024	

594.	A conjugated crosslinker enabled polyaniline hydrogel synthesis and its application as electrode material for supercapacitors	Anasuya Bandyopadhyay and Samaresh Ghosh PPE	202411088713	16.11.2024	27.12.2024	
595.	A two-component acrylic coating formulation	Pradip K. Maji , Amrita Chatterjee, Sushmit Sen, Shakshi Bhardwaj and Shiva Singh PPE	202411089223	18.11.2024	07.03.2025	
596.	Registered Design Garbage cleaning bot	Bibhuti Ranjan Bhattacharjya , Akshay Dvivedi , Kamlesh Arya and Amandip Dutta DoD & MIED	438848-001	28.11.2024		
597.	A system and a method for determining bilirubin concentration	Soumitra Satapathi , Prathul Nath PP, Anken Dey, Tathagata Kundu and Partha Roy PHY & BSBE	202411097058	09.12.2024	27.12.2024	
598.	A method of chemical-free fiber extraction from water hyacinth	Inderdeep Singh , Bibhuti Ranjan Bhattacharjya and Pinki Kumari MIED & DoD	202411097941	11.12.2024	10.01.2025	
599.	A functionalized graphene oxide nanoribbons and carbon fiber reinforced epoxy composites and its method of preparation	Gaurav Manik , Anurag Kulshreshtha, Sangita Tripathy and Ms. Vaishali Sharma PPE	202411098258	12.12.2024	Not published	
600.	A portable dual action whey protein and paneer household device	Zillur Rahman and Kanav Gupta DOMS	202411098259	12.12.2024	Not published	
601.	A mineral and clay-based ethylene scavenger for fruits and vegetable packaging application	Kirtiraj K Gaikwad and Pradeep Kumar DPT	202411101651	21.12.2024	10.01.2025	
602.	A printable and environmentally friendly edible ink based on hibiscus flowers and guar gum and its method of preparation	Kirtiraj K. Gaikwad and Samiksha Bisht DPT	202411101652	21.12.2024	10.01.2025	
603.	An improved grain-feeding system for uniform grain flow for gharat-based grinding mills	Vinay Sharma , Navneet Arora , Gajendra Giri, Kritika Sharma, Rakesh G. Nair, Prateek Sharma, Abhishek Shivakumar Pujar, Subham Kumar, Shubham Singh, Ayush Kishore and Shreyansh Jain	202411103873	27.12.2024	17.01.2025	

		DOMS, MIED and CED				
Year 2024	137					
604.	A method of synthesis of cathode material composition for sodium-ion batteries	Yogesh Sharma and Manish Kumar Sharma PHY	202511000599	03.01.2025	24.01.2025	
605.	A method for automatically selecting process parameters for an additive manufacturing (AM) process	Mayank Goswami and Sunita Khod PHY	202511001549	07.01.2025	31.01.2025	
606.	Low temperature synthesis of single atom catalysts embedded on layered polytriazine matrices by complexation approach	Paritosh Mohanty , Pratibha Kiran Giri and Tanya Gupta CY	202511001821	08.01.2025	24.01.2025	
607.	Pulsed laser-deposited Ti-based MXene thin films and method thereof	Ramesh Chandra , Pramod Kumar, Ananya Bansal and Vipin Chawla IIC	202511003195	14.01.2025	31.01.2025	
608.	Development of a bio-based adhesive binder sourced from modified linseed oil for printing ink application	Gaurav Manik , Majinder Singh, Anurag Kulshreshtha and Brahma Prakash PPE	202511003290	15.01.2025	31.01.2025	
609.	Synergistic plant-based formulation as an alternative of antibiotics for poultry and its method of preparation	Naveen Kumar Navani , Ranjana Pathania and Amit Gaurav BSBE	202511003923	17.01.2025	14.02.2025	
610.	A recombinant gene, its encoded recombinant protein and a system comprising the recombinant protein	Pravindra Kumar , Jai Krishna Mahto and Ishani Mishra BSBE	202511004074	17.01.2025	31.01.2025	
611.	Nitrogen dioxide (NO ₂) gas sensing composite sensor and process for preparation thereof	Ramesh Chandra , Vivek K. Malik , Prachi Gurawal and Somdatta Singh PHY & IIC	202511004541	20.01.2025	31.01.2025	
612.	Ru-based electrocatalysts for hydrogen evolution reaction and its method of synthesis	Anasuya Bandyopadhyay and Sonal Sharma PPE	202511007354	29.01.2025	21.02.2025	
613.	A robust fault isolation method for inverter dominant hybrid microgrid system using novel dual overcurrent relay characteristics	Premalata Jena and Mir Uzair Kanth EE	202511007355	29.01.2025	21.02.2025	

614.	A robust catalyst for oxidative dehydrogenation of cycloalkane to cycloalkene	Taraknath Das and Krunalsinh Yogendrasinh Chauhan ChED	202511007749	30.01.2025	04.04.2025	
615.	Light-driven synthesis of 3-Aryl/Alkyl-1-Indanone derivatives from Indan-1,3-Diones and boronic acids via N- Sulfonylhydrazones	Yadagiri Dongari , Mohammad Junaid and Yamini Pokhriyal CY	202511008860	03.02.2025	21.02.2025	
616.	Techniques for scaling an event broker via two-way traffic learning	Sandeep Garg and Manish Manish Agrawal CSE (with Oracle)	202541009576	05.02.2025	Not published	
617.	A silica aerogel composite blanket for thermal insulation in space and method for preparing the same	Kaushik Pal and Gunjan Sharma CON	202511010683	08.02.2025	Not published	
618.	A piezoelectric accelerometer for high sensitivity and lower noise	Sanjeev Manhas and Rahul Kumar Gupta ECE	202511011276	10.02.2025	14.03.2025	
619.	An automatic fan blade cleaning system	Zillur Rahman and Anoop Thekkecheruvil Sasidharan DOMS	202511011976	12.02.2025	Not published	
620.	A topical formulation derived for skin tissue regeneration and its method of preparation	Saugata Hazra , Komal Singh, Narayan Chandra Mishra , Debabrata Sircar , Shiv Shakti Singh and Alaa Eddin Alhmeidi Alkhatib BSBE & PPE	202511015114	21.02.2025	14.03.2025	
621.	A system and method for network resource allocation in a multi-connected cell-free massive multiple-input-multiple-output (CF-mMIMO)	Abhay Kumar Sah , Santosh Kumar Singh and Lokesh Patidar ECE	202511015154	21.02.2025	14.03.2025	
622.	A method for visible-lightinduced thioesterification of carboxylic acid for synthesis of thioester	Anuj Sharma , Harshita Gupta and Jaya Tripathi CY	202511015156	21.02.2025	14.03.2025	
623.	Method and system for managing intersection mobility in traffic environments	Neetesh Kumar , Anuj Sachan, Ashok Arora and Nisha Singh Chauhan CSE	202511015176	21.02.2025	14.03.2025	

624.	Porphyrin derivatives, process for their preparation and test kits of porphyrin derivatives for cyanide detection	Muniappan Sankar and Rohit CY & CON	202511016931	26.02.2025	28.03.2025	
625.	A non-bonded method of manufacturing silicon-on-insulator wafers	Arup Samanta and Monika Dhiman PHY	202511019386	04.03.2025	04.04.2025	
626.	Ni(II)-porphyrin derivatives, process for their preparation and test kit for visual colorimetric cyanide detection	Muniappan Sankar & Varusha Bhardwaj CY & CON	202511019387	04.03.2025	23.05.2025	
627.	Macroporous Nanofiber Hydrogel Composites and Method of preparation thereof	Gopinath Packirisamy and Soumyadeep Basak BSBE	202511020302	06.03.2025	23.05.2025	
628.	Vernacular materials based modular kinetic facade	Saptarshi Kolay and Vinay Pravinbhai Limbani Arc	202511020350	06.03.2025	Not published	
629.	Registered Design Modular kinetic facade	Saptarshi Kolay and Vinay Pravinbhai Limbani Arc	450579-001	06.03.2025		
630.	Registered Design Clamp	Saptarshi Kolay and Vinay Pravinbhai Limbani Arc	450580-001	06.03.2025		
631.	Registered Design Clamp	Saptarshi Kolay and Vinay Pravinbhai Limbani Arc	450581-001	06.03.2025		
632.	A large naive high diversity vna nanobody phage library from bamboo shark	Rajesh Kumar and Vivek Kumar BSBE	202511021258	08.03.2025	Not published	
633.	A process for the preparation of aryl esters through photoinduced catalysis	Anuj Sharma and Jaya Tripathi CY	202511021923	11.03.2025	23.05.2025	
634.	Transforming pet waste into cutting-edge omniphobic membranes for sustainable membrane distillation	Bhaskar Jyoti Dekha and Gaurav Vaghela HYD	202511021952	11.03.2025	21.03.2025	
635.	An agro based coagulant from sugarcane bagasse for heavy metal sequestration from water and wastewater	Bhaskar Jyoti Dekha , Prajwal Mallikarjun Timashetti and Nagendra Kumar Jilagam	202511023605	17.03.2025	04.04.2025	

		HYD				
636.	Routing diverse incoming requests to optimal computing option while satisfying requisite performance metrics	Sandeep Garg and Manish Agrawal CSE (with Oracle)	202544024223	18.03.2025	Not published	
637.	Misalignment tolerant inductive contactless charging system for electric vehicles	Apurv Kumar Yadav and Adarsh Dubey EE	202511024626	19.03.2025	04.04.2025	
638.	A self-cleaning solar-enabled smart device for real-time surface water health monitoring	Anshul Yadav , Ellora Padhi , Bal Krishan and Nikhil WRDM	202511026994	24.03.2025	04.04.2025	
639.	Fabrication of zirconium oxide-modified superhydrophobic poly(vinylidene fluoride-co-hexafluoropropylene) and poly(methylhydrosiloxane) membrane for wastewater treatment	Bhaskar Jyoti Deka and Shubham Ketan Sharma HYD	202511027249	24.03.2025	04.04.2025	
640.	A process of sustainable modification of sugarcane bagasse via periodate oxidation and metal oxide-catalyzed hydroxylation	Bhaskar Jyoti Deka , Prajwal Mallikarjun Timashetti and Shubham Ketan Sharma HYD	202511027878	25.03.2025	Not published	
641.	A method and device for fault detection in power transformers using clarke transform	Bhaveshkumar Rameshchandra Bhalja , Pramod Agarwal and Bhalja Het Sanjaykumar EE	202511029235	27.03.2025	18.04.2025	
642.	A synthesis of multi-walled carbon nanotubes (MW-CNTS) and regeneration of nickel-ceria catalyst for dry reforming of methane	Taraknath Das and Akanksha singh Rajput ChED	202511029236	27.03.2025	18.04.2025	
643.	Coated zinc anode for zinc batteries and process for preparation thereof	Ashwini Kumar Sharma and Dinesh Patel ChED	202511030128	28.03.2025	Not published	
644.	Antigen affinity column purified polyclonal mouse LIORF1P antibody and method thereof	Prabhat Kumar Mandal , Manali Ganguly and Sujoy Kundu BSBE	202511030130	28.03.2025	Not published	
645.	A process to enhance a wet strength of papers with bio-based wet strength additive for making papers	Vibhore Kumar Rastogi , Varsha Singh, Satish Kumar Bachala, Arihant Ahuja and Neelisetty Sessa Sai Baba DPT	202511030184	28.03.2025	18.04.2025	

646.	Force balance accelerometer (FBA) assembly	Manish Shrikhande and Aditya Manish Shrikhande EQD	202511030185	28.03.2025	18.04.2025	
647.	Wideband doherty power amplifier	Karun Rawat , Mohammad Abdul Shukoor and Ahmad Zakaria Ahmad ECE (with WIPRO)	202541030846	29.03.2025	Not published	
648.	Registered Design 3D printed hexagonal packaging material for handling & distributing	Kirtiraj K Gaikwad , Harsh Satiya and Sampat Singh Bhati DPT	453696-001	31.03.2025	Not published	
649.	A microcontroller governed led driver for automobile	Akshay Dvivedi and Sahil Sharma MIED	202511032363	01.04.2025	Not published	
650.	A hydroxy-modified biomass for rubidium adsorption	Bhaskar Jyoti Deka , Shubham Ketan Sharma and Prajwal Mallikarjun Timashetti HYD	202511033370	04.04.2025	Not published	
651.	Registered Design Healthcare humanoid robot	Pushparaj Mani Pathak , Vijay Saini and Rudra MIED	454576-001	07.04.2025	Not published	
652.	An adaptive controller for an off-grid solar powered electrolyzer and motor-driven loads	Rhythm Singh , Pratham Arora , Amit C Bhosale and Manish Kumar HRED	202511035491	11.04.2025	02.05.2025	
653.	Inflatable parabolic reflector	S. H. Upadhyay and Vikas Rastogi MIED	202511035492	11.04.2025	Not published	
654.	Registered Design Inflatable parabolic reflector	S. H. Upadhyay and Vikas Rastogi MIED	455020-001	11.04.2025	Not published	
655.	System and method for evaluating stress corrosion cracking in material specimens under controlled environmental conditions	Dheerendra Kumar Dwivedi and Saurabh Kumar Nishad MIED	202511036458	15.04.2025	02.05.2025	
656.	Recycling of discarded ternary Lithium-ion batteries (NMC532/NMC442) via biomass-assisted pyrolysis	Nikhil Dhawan and Ganesh Shanker Bhandari MMED	202511039179	23.04.2025	Not published	
657.	Validating predicate-based filters used in asynchronous messaging systems	Sandeep Garg and Manish Manish Agrawal	202544039601	24.04.2025	Not published	

		CSE (with Oracle)				
658.	A method of making a multi-layered coated paper with enhanced recyclability	Vibhore Kumar Rastogi , Sudhanshu Ranjan Singh, Manish Kumar shaw, Arihant Ahuja and Neelisetty Sessa Sai Baba DPT	202511040938	28.04.2025	16.05.2025	
659.	A bio-patch formulation for the management of xerostomia	Gopinath Packirisamy , Harish Ganesan Sudha and Unnikrishnan B S BSBE	202511041425	29.04.2025	16.05.2025	
660.	Automated fast frequency response controller for inverter-based motor loads	Himanshu Jain and Zarka Mirza HRED	202511045056	09.05.2025	Not published	
661.	Barnyard millets based edible straws and its method of preparation	Kirtiraj K. Gaikwad and Tejaswini Dhanaji Patil DPT	202511046631	14.05.2025	Not published	
662.	Self-assembled biopolymer functionalized nanocomposite matrix as a dual signal probe for heparin detection	Krishna Mohan Poluri and Aakanksha Pathak CON & BSBE	202511047415	16.05.2025	30.05.2025	
663.	A device for analyte detection and method therefor	Gopinath Packirisamy , Deepanshu Sharma, Ayush Tiwari, Manoj Kumar Baghel, Ashish Kalkal and Rangadhar Pradhan CON	202511047428	16.05.2025	Not published	
664.	A process and an apparatus for synthesis of metal-loaded multiwalled carbon nanotubes	Narapureddy Siva Mohan Reddy and Vikas Pate ChED	202511048725	20.05.2025	Not published	
665.	A method for metal free trifluoroethylation and perfluoroalkylation of amines and application thereof	Debasis Banerjee and Tarun CY	202511049588	23.05.2025	Not published	
666.	A method for N-methylation of amines using a Ni-based catalytic system	Debasis Banerjee and Tarun CY	202511049589	23.05.2025	Not published	
667.	A method of synthesis of paracetamol using cobalt nanocatalyst	Debasis Banerjee and Shuvojit Halder CY	202511049590	23.05.2025	Not published	

668.	A method for synthesizing n-formylated amines using CO ₂ as a green feedstock	Debasis Banerjee and Tarun CY	202511049591	23.05.2025	Not published	
669.	Concise and mesoscale-precision instrument for 3D cartesian coordinate measurement	Shamik Basak , Vinith S. S. and Sarthak Verma MIED	202511049960	23.05.2025	Not published	
670.	A method of synthesis of BIS(PERFLUOROALKOXYIODO) benzene and application thereof	Debasis Banerjee and Shuvojit Haldar CY	202511050104	24.05.2025	Not published	
671.	A power management unit for battery operated powertrain and a control method thereof	Thanga Raj Chelliah and Vidyasagar Tummakuri WRDM	202511050992	28.05.2025	Not published	
Year 2025	62					

Total nos. of patent applications

Patent Applications	Total
Filed Patent	671(636 Patents + 35 Designs)
Published Patent	586
Granted Patent	316 (298 Patents +18 Designs)