

## Information on Patents of CSIR-CIMFR for the period 1<sup>st</sup> April 2021 to 31<sup>st</sup> March 2022

Patents Filed in India: 7, Filed in Abroad: NIL

SNo	NFNO	Title	Inventors	Prov. Filing Date	Comp. Filing Date	Application No.	Status	Grant Date	Patent No.
1	0184NF2020	RETRACTABLE BED COVER AND DUST COLLECTOR FOR TRANSPORT VEHICLES	CHAULYA SWADES KUMAR, ROY SANJAY KUMAR, PRASAD GIRENDRA MOHAN, MANDAL SUJIT KUMAR, BANERJEE GAUTAM, SINGH PRADEEP KUMAR, DEY SURAJIT, VIRENDRA KUMAR, PREITY, RAWANI VIJAY KUMAR, MISHRA RICHA, RAJAK KRISHNA KUMAR	---	26/Nov/2021	202111055045	PP	---	---
2	0229NF2021	PREPARATION OF LOW QUINOLINE INSOLUBLE (QI) TAR PRODUCT FROM HTC TAR USING QUINOLINE AS A SOLVENT	MONALISA GANGOPADHYAY, GAUTAM KUMAR BAYEN, MANISH KUMAR, RAJIV RANJAN, TARUN PRAMANIK, PRADEEP KUMAR SINGH	---	25/Jan/2022	202211004398	PP	---	---

3	0014NF2022	AN ADIABATIC DOUBLE CYLINDER AIR PURIFIER AND USE THEREOF	SANTOSH KUMAR RAY, BIMAL CHANDRA BHOWMICK, DEBASHISH MISHRA, NIROJ KUMAR MOHALIK, KUMARI ANJALI, JAI KRISHNA PANDEY	---	07/Feb/2022	202211006593	PP	---	---
4	0090NF2021	DEVELOPMENT OF OXYGEN ENRICHED AIR BLOWN PRESSURIZED FLUIDIZED BED PILOT SCALE GASIFIER	PRAKASH DHONDIRAM CHAVAN, SUJAN SAHA, NILESH D DHAIGUDE, VISHAL CHAUHAN, GAJANAN SAHU, SUDIPTA DATTA, PRADEEP KUMAR SINGH	---	07/Feb/2022	202211006577	PP	---	---
5	0152NF2020	OIL IMMERSSED (EX O) CUM INCREASED SAFETY (EX E) TRANSFORMER WITH OBSERVATION WINDOW, EX HOOTER AND OTHER SAFETY FEATURES FOR USE IN HAZARDOUS AREAS OF OIL	AHIRWAL BHAGIRATH, BANERJEE GAUTAM	---	07/Feb/2022	202211006559	PP	---	---

		MINES AND AREAS WHERE SIMILAR HAZARDS ARE ENCOUNTERED							
6	0166NF2021	LOW TEMPERATURE AIR PURIFIER THAT KILLS COVID-19 VIRUS FOR INDOOR USE	Santosh Kumar Ray, Bimal Chandra Bhowmick, Debashish Mishra, Jai Krishna Pandey, Niroj Kumar Mohalik, Pradeep Kumar Singh	-----	04/Mar/2022	202211012041	PP	----	----
7	0185NF2021	AN IMPROVED PROCESS FOR THE PRODUCTION OF HUMIC ACID FROM LIGNITE	ASHOK KUMAR SINGH, SANJAY KUMAR THAKUR, NIRAJ KUMAR SHUKLA, JYOTI SHARMA, SUJAN SAHA	07/Mar/2022	---	202211012416	PP	---	---

**Patent granted in India: 3, Granted in Abroad: NIL**

SNo	NFNO	Title	Inventors	Prov. Filing Date	Comp. Filing Date	Application No.	Status	Grant Date	Patent No.
1	0165NF2012	LANDSLIDE DETECTION AND ALERTING SYSTEM USING WIRELESS SENSOR NETWORK	SWADES KUMAR CHAULYA, PANKAJ KUMAR MISHRA, GIRENDRA MOHAN PRASAD, SATYAJIT RATH, DEBI PRASAD SANDHA, SANJEEV KUMAR PANDEY, PRATAP CHANDRA SARMAH, KHIROD BURAGOHAIN, PRABHAT KOTOKY	---	19/Aug/2013	2444DEL2013	IF	27/Oct/2021	380410
2	0019NF2016	PROCESS FOR SEQUESTRATION OF CO2 AND TRACES OF HYDROCARBON FROM NATURAL GAS PROCESSING	VETRIVEL ANGUSELVI, LAL CHAND RAM, REGINALD EBHINMASTO, PARIVESH CHUGH, RAJ KUMAR KASHYAP, RENU SINHA	26/Oct/2016	26/Oct/2017	201611036660	IF	30/Dec/2021	385534

		INDUSTRY BY MICRO ALGAE							
3	0107NF201 5	WATER RESISTANT AMMONIUM NITRATE FUEL OIL MIXTURE FOR WATERY HOLE BLASTING AND PROCESS FOR PREPARING THE FUEL COMPOSITION	BRAJ MOHAN PAT PINGUA, MOHAMMAD NABIULLAH	27/Oct/2015	25/Oct/20 16	3471DEL201 5	IF	31/Mar/2022	393970