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NATIONAL INSTITUTE OF TECHNOLOGY
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LIST OF GRANTED PATENTS TILL DATE (NOVEMBER 2022)

S.No	Application Number	Title	Application Date	Patent Number	Granted Date
1	202141042633	A PROCESS OF SYNTHESIS OF 5,5'-(FURAN-2,5-DIYL)BIS(THIOPHENE-5,2-DIYL)DIMETHANOL	21/09/2021	405546	01/09/2022
2	202141026551	BIOGENIC PICKLING SOLUTION FOR MILD STEEL	15/06/2021	391300	07/03/2022
3	202141013980	PORTABLE VIBRATING SHEEPSFOOT COMPACTOR AND METHOD THEREOF	29/03/2021	396927	17/05/2022
4	202141005994	A NOVEL FLUX COMPOSITION FOR STAINLESS-STEEL SMAW ELECTRODES WITH MILD STEEL CORE WIRE	12/02/2021	410768	02/11/2022
5	202141002355	A MULTI-DIRECTIONAL DISPLAY DEVICE TO ENABLE ACTIVE USER SCREEN TIME AND METHOD THEREOF	19/01/2021	400556	30/06/2022
6	202141000717	SYNGAS FROM SEMECARPUS ANACARDIUM SHELLS AND METHOD THEREOF	07/01/2021	380314	27/10/2021
7	202041040239	SINGLE AXIS SOLAR TRACKING SYSTEM AND METHOD THEREOF	17/09/2020	394395	07/04/2022
8	202041036386	IOT BASED SMART MULTI-FUNCTIONAL VENTILATOR SYSTEM AND METHOD THEREOF	24/08/2020	402746	01/08/2022
9	201941050564	BIODIESEL FROM NON-EDIBLE SEMECARPUS ANACARDIUM SEED OIL AND METHOD THEREOF	07/12/2019	364821	16/04/2021
10	201941043080	A SOLID WASTE BARRIER LINER COMPOSITION FOR LANDFILL WITH CLAY AND MICROSILICA	23/10/2019	361492	16/03/2021
11	201941022285	REAL-TIME DIGITAL FAULT MONITORING SYSTEM FOR TRANSMISSION LINES IN AUTONOMOUS POWER GRIDS AND METHOD THEREOF	05/06/2019	388584	04/02/2022
12	201741042164	"CARICA PAPAYA EXTRACT BASED CONDUCTIVITY ADDITIVE FOR HYDROCARBON FUELS AND METHOD THEREOF"	24/11/2017	383295	30/11/2021
13	201741041005	VARIABLE VOLUME MINI TANK TESTING EQUIPMENT AND METHOD OF AN AIRBAG CHEMICAL PERFORMANCE TEST	16/11/2017	384748	21/12/2021
14	201741039083	SMART LOAD NODE FOR NON-SMART LOAD	02/11/2017	370466	29/06/2021



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15	201741037531	BIODIESEL FROM AEGLE MARMELOS CORREA AND A METHOD THEREOF	24/10/2017	378291	29/09/2021
16	201641012033	A METHOD OF DIFFERENTIAL RELAY FOR POWER TRANSFORMER PROTECTION USING DSP PROCESSOR	05/04/2016	380676	28/10/2021
17	3413/CHE/2014	A SYSTEM WITH MULTIPLE TRANSMISSION LOSS COEFFICIENTS FOR DYNAMIC ECONOMIC GENERATOR DISPATCH	10/07/2014	382380	23/11/2021
18	3192/CHE/2013	A PHOTOVOLTAIC SYSTEM AND A METHOD OF ARRANGING PV ARRAYS IN PV SYSTEM	17/07/2013	359780	26/02/2021
19	1707/CHE/2010	"APPARATUS FOR SEPARATING PARTICLES USING PIEZOELECTRIC SENSOR AND ACTUATOR AND A METHOD THEREFOR"	18/06/2010	319119	27/08/2019
20	1713/CHE/2010	A PIEZOELECTRIC MOTOR AND A METHOD OF OPERATING THEREFOR	18/06/2010	299108	24/07/2018
21	1715/CHE/2010	AN ELECTRONIC CIRCUIT FOR SELF SENSING PIEZOELECTRIC ACTUATOR AND METHOD OF OPERATING THEREFOR	18/06/2010	327603	17/12/2019



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LIST OF PUBLISHED PATENTS TILL DATE (NOVEMBER 2022)

S.No	Application Number	Title	Application Date	Publication date
1	202241050994	MEMBRANE FREE CYLINDRICAL CAPACITIVE DEIONIZATION(CDI) SYSTEM FOR THE BRACKISH WATER TREATMENT	07/09/2022	23/09/2022
2	202241050996	CONCENTRIC TRIPLE CHAMBERED MICROBIAL DESALINATION CELL	07/09/2022	23/09/2022
3	202241050026	BIO-OIL FROM CASSIA FISTULA SEED PODS AND METHOD THEREOF	01/09/2022	30/09/2022
4	202241046986	A PROCESS FOR HIGH-GRADE TRANSPORTATION FUEL PRODUCTION FROM NON-WOVEN FABRIC WASTE	18/08/2022	23/09/2022
5	202241045736	AN ACTIVE BALANCING METHOD WITH BUILT-IN EQUALIZATION FOR SERIES-CONNECTED ULTRACAPACITORS	10/08/2022	26/08/2022
6	202241034294	NANO-ENHANCED PHASE CHANGE MATERIAL (NEPCM) FOR REVERSIBLE THERMOELECTRIC POWER GENERATION	15/06/2022	05/08/2022
7	202241031140	DUAL POLARIZER BASED ON SUBSTRATE INTEGRATED WAVEGUIDE CAVITY AND METHOD THEREOF	31/05/2022	24/06/2022
8	202241031141	CAVITY BASED FREQUENCY SELECTIVE LINEAR-TO-CIRCULAR POLARIZING C-SANDWICH AIRBORNE RADOME FOR STRATEGIC APPLICATION	31/05/2022	24/06/2022
9	202241022910	DUAL-GENERATION MIMO ANTENNA WITH DB-BPF CHARACTERISTICS FOR 4G AND 5G BTS APPLICATIONS AND METHOD THEREOF	19/04/2022	06/05/2022
10	202241021753	COLD-FORMED STEEL-CONCRETE COMPOSITE BEAM WITH A PREFABRICATED SHEAR CONNECTOR AND METHOD THEREOF	12/04/2022	29/04/2022
11	202241011401	LOGIC ENCRYPTION DECRYPTION SYSTEM FOR PROTECTING HARDWARE CIRCUITS AND METHOD THEREOF	03/03/2022	11/03/2022
12	202141059942	FORCED COOLING FRICTION STIR WELDING TOOL AND METHOD THEREOF	22/12/2021	31/12/2021
13	202141052237	SYSTEM AND METHOD FOR DESIGNING FREQUENCY SELECTIVE SURFACES BASED ON MULTI-CAVITY SUBSTRATE INTEGRATED WAVEGUIDE	15/11/2021	03/12/2021



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14	202141042633	A PROCESS OF SYNTHESIS OF 5,5'-(FURAN-2,5-DIYL)BIS(THIOPHENE-5,2-DIYL)DIMETHANOL	21/09/2021	01/10/2021
15	202141039952	METHOD OF DESIGNING ON-CHIP DECOUPLING CAPACITORS BY SPARE CELL RECONFIGURATION FOR STANDARD CELL DESIGN	03/09/2021	28/10/2022
16	202141026551	BIOGENIC PICKLING SOLUTION FOR MILD STEEL	15/06/2021	02/07/2021
17	202141023226	SHAPE GUIDED ROTARY ACTUATOR FOR GRIPPERS AND METHOD THEREOF	25/05/2021	03/06/2022
18	202141017539	AUTOMATED PAVEMENT DISTRESS DETECTION DEVICE AND METHOD THEREOF	15/04/2021	22/04/2022
19	202141013980	PORTABLE VIBRATING SHEEPSFOOT COMPACTOR AND METHOD THEREOF	29/03/2021	01/10/2021
20	202141005994	A NOVEL FLUX COMPOSITION FOR STAINLESS-STEEL SMAW ELECTRODES WITH MILD STEEL CORE WIRE	12/02/2021	11/02/2022
21	202141002355	A MULTI-DIRECTIONAL DISPLAY DEVICE TO ENABLE ACTIVE USER SCREEN TIME AND METHOD THEREOF	19/01/2021	31/12/2021
22	202141000717	SYNGAS FROM SEMECARPUS ANACARDIUM SHELLS AND METHOD THEREOF	07/01/2021	15/01/2021
23	202041049605	LASER GLAZED FUNCTIONALLY GRADED LANTHANUM MAGNESIUM HEXALUMINATE/YTTRIA-STABILIZED ZIRCONIA BASED THERMAL BARRIER COATING	13/11/2020	20/05/2022
24	202041040239	SINGLE AXIS SOLAR TRACKING SYSTEM AND METHOD THEREOF	17/09/2020	17/09/2021
25	202041036386	IOT BASED SMART MULTI-FUNCTIONAL VENTILATOR SYSTEM AND METHOD THEREOF	24/08/2020	27/08/2021
26	202041028529	SYSTEM FOR THERMAL RESPONSE ENHANCEMENT OF PHASE CHANGE MATERIALS OF ENERGY STORAGE AND METHOD THEREOF	04/07/2020	31/07/2020



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27	202041019653	IDENTIFICATION AND LOCALIZATION OF ARRAY FAULTS WITH OPTIMIZED PLACEMENT OF VOLTAGE SENSORS IN A PV SYSTEM	09/05/2020	12/11/2021
28	202041011873	A MOLD FOR CASTING PERVIOUS CONCRETE AND METHOD THEREOF	19/03/2020	08/05/2020
29	202041007125	A DATA SCHEDULING REGISTER TREE FOR RADIX-2 FFT ARCHITECTURE	19/02/2020	27/08/2021
30	202041006504	AN ELASTOPLASTIC DEFORMATION PROCESSING, TOOL AND METHOD THEREOF	14/02/2020	21/02/2020
31	202041005420	THERMOMAGNETIC TEMPERATURE INDICATOR AND METHOD THEREOF	07/02/2020	14/02/2020
32	201941050564	BIODIESEL FROM NON-EDIBLE SEMECARPUS ANACARDIUM SEED OIL AND METHOD THEREOF	07/12/2019	13/12/2019
33	201941043080	A SOLID WASTE BARRIER LINER COMPOSITION FOR LANDFILL WITH CLAY AND MICROSILICA	23/10/2019	01/11/2019
34	201941037604	METHOD FOR EXTRACTING THE I-V CURVE OF THE PHOTOVOLTAIC (PV) MODULE	18/09/2019	27/09/2019
35	201941022285	REAL-TIME DIGITAL FAULT MONITORING SYSTEM FOR TRANSMISSION LINES IN AUTONOMOUS POWER GRIDS AND METHOD THEREOF	05/06/2019	14/06/2019
36	201941021210	SOLAR REVERSE THERMOELECTRIC POWER GENERATION SYSTEM AND METHOD THEREOF	29/05/2019	07/06/2019
37	201941020952	A NATURAL FIBER PROCESSING TECHNIQUE FOR UNIFORM GSM FABRICS	27/05/2019	07/06/2019
38	201741041009	DOUBLE SHOULDER FRICTION STIR PROCESSING TOOL FOR COATING APPLICATIONS	16/05/2018	24/05/2019
39	201841015328	WIRELESS VEHICLE MONITORING SYSTEM AND METHOD THEREOF	23/04/2018	04/05/2018
40	201841002213	METHOD FOR REMOVAL OF NILE BLUE DYE FROM WASTE WATER	19/01/2018	25/01/2019
41	201841000510	NATURAL FIBRE REINFORCED INDUSTRIAL SAFETY HELMET	05/01/2018	11/01/2019



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42	201741041008	FRICTION WELDING OF TUBE TO TUBE USING A GUIDE TOOL	16/12/2017	21/12/2018
43	201741042164	ELECTRICAL CONDUCTIVITY ENHANCEMENT OF LOW CONDUCTIVITY HYDROCARBON FUELS BY BIO-ADDITIVES	24/11/2017	30/11/2018
44	201741042165	NOVEL REACTION CHAMBER FOR COLLECTION OF DECOMPOSITION RESIDUES OF PYROTECHNIC COMPOSITIONS AND METHOD THEREOF	24/11/2017	30/11/2018
45	201741042166	INDUSTRIAL HELMET FOR WELDING FUME EXPULSION AND METHOD THEREOF	24/11/2017	30/11/2018
46	201741041005	VARIABLE VOLUME MINI TANK TESTING EQUIPMENT AND METHOD OF AN AIRBAG CHEMICAL PERFORMANCE TEST	16/11/2017	23/11/2018
47	201741041006	ELECTRICAL CONDUCTIVITY ENHANCEMENT OF LOW CONDUCTIVITY FUELS BY NANO ADDITIVES	16/11/2017	23/11/2018
48	201741041007	SYNTHESIS OF CARBON SUPPORTED CALCIUM METHOXIDE GREEN CATALYST FROM SENNA SIAMEA POD FOR BIODIESEL PRODUCTION	16/11/2017	23/11/2018
49	201741039083	SMART LOAD NODE FOR NON-SMART LOAD	02/11/2017	01/03/2019
50	201741039073	A NOVEL PCM BASED WINDOW FOR IMPROVING IAQ IN SPLIT AC BUILT SPACE	02/11/2017	11/01/2019
51	201741039055	DURABLE, COST-EFFECTIVE AND EFFICIENT MEMBRANE FOR HARVESTING DRINKING WATER FROM ATMOSPHERIC AIR AND METHODS THEREOF	02/11/2017	01/03/2019
52	201741039045	"SYSTEM AND METHOD FOR EFFICIENT ENERGY EXTRACTION FROM AN EXISTING SOLAR PV SYSTEM"	02/11/2017	01/03/2019
53	201741038676	AIRBAG GAS GENERANTS COMPRISING LAYERED COPPER HYDROXY NITRATE NANOSHEETS	31/10/2017	11/01/2019
54	201741038449	SELF SEALING TYPE FRICTION BRAZING/SOLDERING OF TUBE TO TUBE PLATE USING AN EXTERNAL TOOL	30/10/2017	11/01/2019



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55	201741038399	LOW MULTIPLIER COMPLEXITY IN-PLACE HIGHER RADIX REAL-VALUED FFT ARCHITECTURES WITH MODIFIED PROCESSING ELEMENT.	30/10/2017	11/01/2019
56	201741038209	DROWNING DETECTION DEVICE	27/10/2017	22/03/2019
57	201741037531	PREPARATION OF BIOCATALYST FROM AEGLE MARMELOS CORREA FRUIT SHELL FOR BIO DIESEL PRODUCTION	24/10/2017	11/01/2019
58	201741033366	METHOD FOR PREPARING IBUPROFEN CRYSTALS USING A GREEN SOLVENT AND PRODUCT THEREOF	20/09/2017	16/08/2019
59	201741030634	A SYSTEM AND A METHOD FOR EXTRACTING MAXIMUM POWER IN THERMOELECTRIC GENERATORS	30/08/2017	20/07/2018
60	201741022616	SMART BI-LATERAL PEDAL MODULE	28/06/2017	03/08/2018
61	201741001065	AN IMPROVED TRANSPARENT ELECTROTHERMAL DEVICE	11/01/2017	31/03/2017
62	201741000938	GAS SENSOR BASED ON NANOWIRES AND CARBON NANOTUBES HETEROSTRUCTURE	10/01/2017	31/03/2017
63	201641012033	A METHOD OF DIFFERENTIAL RELAY FOR POWER TRANSFORMER PROTECTION USING DSP PROCESSOR	05/04/2016	27/10/2017
64	5145/CHE/2014	HIGH LONGEVITY COATINGS AND ALTERNATE MATERIAL FOR EROSION AND CORROSION RESISTANCE IN MINING PUMPS	14/10/2014	31/10/2014
65	3413/CHE/2014	A SYSTEM WITH MULTIPLE TRANSMISSION LOSS COEFFICIENTS FOR DYNAMIC ECONOMIC GENERATOR DISPATCH	10/07/2014	08/08/2014
66	1826/CHE/2014	SURFACE RENEWAL PHOTOBIOREACTOR	05/04/2014	01/01/2016
67	3192/CHE/2013	A PHOTOVOLTAIC SYSTEM AND A METHOD OF ARRANGING PV ARRAYS IN PV SYSTEM	17/07/2013	10/01/2014
68	2409/CHE/2012	SURGE SUPPORTER (AN ALTERNATIVE POWER SUPPLY SYSTEM FOR AN AUTOMOBILE)	18/06/2012	20/12/2013
69	3073/CHE/2011	METHOD OF JOINING PLATES IN A LAP CONFIGURATION	07/09/2011	21/06/2013



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70	1569/CHE/2011	CLAD-MODIFIED FIBER OPTIC AMMONIA GAS SENSOR WITH NANOCRYSTALLINE TITANIUM DIOXIDE AND CERIUM DOPED ZINC OXIDE	05/05/2011	16/11/2012
71	2646/CHE/2010	METHOD OF JOINING DISSIMILAR MATERIALS	09/09/2010	29/03/2013
72	1713/CHE/2010	A PIEZOELECTRIC MOTOR AND A METHOD OF OPERATING THEREFOR	18/06/2010	08/04/2016
73	1715/CHE/2010	AN ELECTRONIC CIRCUIT FOR SELF SENSING PIEZOELECTRIC ACTUATOR AND METHOD OF OPERATING THEREFOR	18/06/2010	13/07/2012

YEAR OF PUBLICATION	PUBLISHED	GRANTED
2022	16	08
2021	11	10
2020	04	00
2019	19	02
2018	10	01
2017	03	
2016	02	
2014	03	
2013	03	
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