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Anna University, Chennai – 600 025**



**Patent Published Details  
2015-16 to 2020-21**

<b>S.No</b>	<b>Name of the Applicant</b>	<b>Application Number</b>	<b>Title of the Application</b>	<b>Filing date</b>	<b>Year of publication</b>
1	Dr. S. Thanigaiarasu, Dharmahiner Singh Chand, R. Asad Ahmed,	3765/CHE/2015	Method and device for controlling sonic under - expanded jets	22.07.2015	07.08.2015
2	C. Ramachandran, R. Sudha Rani, Dr. Usha Antony	3785/CHE/2014	A new method to incorporate lactobacillus reuteri in millet fermentation as a probiotic for enrichment with vitamin B12	01.08.2014	14.08.2015
3	Dr. R. Senthil, R. Silambarasan	1892/CHE/2015	Nox reducing additive composition for annona biodiesel	10.04.2015	18.09.2015
4	Dr. R. Senthil, R. Silambarasan	1893/CHE/2015	Jamun methyl ester new alternative fuel for diesel engine	10.04.2015	18.09.2015

5	Dr. R. Senthil, G. Mohan	1869/CHE/2015	Additive composition for biodiesel to reduce emission in diesel engine	09.04.2015	18.09.2015
6	Dr. K. Malathi, K .P. Jayaram, M. Gulam Nabi Alsath,	5336/CHE/2015	A UHF RFID reader antenna integrated with near field and far field operations	06.10.2015	30.10.2015
7	Dr. K. Malathi, M. Gulam Nabi Alsath, Livya Lawrance,	5337/CHE/2015	A device and method for fabrication of ultra-wide band micro strip grid array antenna (GAA)	06.10.2015	30.10.2015
8	Dr. K. Malathi, R. Vimal Samsingh, S. Esther Florence,	5338/CHE/2015	Method and apparatus for non-destructive testing of composites using planar sensor	06.10.2015	23.10.2015
9	Dr. K. Malathi, S. Esther Florence, R. Vimal Samsingh,	5620/CHE/2015	A method to fully integrate multi-layer woven electro-textile patch antenna	19.10.2015	06.11.2015
10	Dr. K. Malathi, S. Ramparabhu, M. Balaji,	5621/CHE/2015	A method and device for a passive reconfigurable frequency selective surface	19.10.2015	06.11.2015
11	University of Hyderabad, Anna University, Chennai	2506/CHE/2014	Sintered in-situ titanium carbide ceramic cutting tool and method of making the same	20.05.2014	15.01.2016

12	Dr. C. Senthil Kumar, M. Ramakrishna,	201641018606	Saw toothed leading edge delta wings	31/05/2016	10.06.2016
13	Dr. C. Senthil Kumar, M. Ramakrishna,	201641018605	Sinusoidal toothed leading edge delta wings	31/05/2016	10.06.2016
14	Dr. K.M. Parammasivam, B. Navin Kumar,	201641016085	Aerodynamic braking system for wind turbine using chordwise spacing	09/05/2016	10.06.2016
15	Dr. M. Kanthababu, Dr. S. Gowri, M. Venkateshwaran,	201641018235	Focusing nozzle condition monitoring system of abrasive water jet machine comprising accelerometer	27/5/2016	10.06.2016
16	Dr. M. Kanthababu, Dr. S. Gowri, M. Venkateshwaran,	201641018236	Focusing nozzle condition monitoring unit of abrasive water jet machine comprising sound sensor	27/5/2016	10.06.2016
17	Dr. M. Kanthababu, V. Mohan Kumar, V. Sailesh, G. Anuradha,	201641020717	Smart seat belt system	17.06.2016	24.06.2016
18	Anna University, Chennai & Department of Atomic Energy, Mumbai	201641005129	Mechanical grippers for handling plurality of micro components	15/02/2016	08.07.2016

19	Dr. K.V. Radha, P. Thyriyalakshmi	201641009242	Biosynthesis of silver nanoparticles loaded corncob for effluent treatment	17.03.2016	15.07.2016
20	C. Ramachandran, R. Sudha Rani, S. R. Nivaz, Prince R. Pravhu, Dr. Usha Antony	6135/CHE/2014	A new method of encapsulation using leguminous protein for food and pharmaceutical applications	05.12.2014	19.08.2016
21	R. Sudha Rani, C. Ramachandran, S.Senthil Kumaran, Dr. Usha Antony	1134/CHE/2015	A new method to extend the shelf life of yogurt	09.03.2015	19.08.2016
22	Council of scientific & industrial research	591/DEL/2015	Interplanetary travel gravity simulator (IPTGS)	03.03.2015	09.09.2016
23	Dr. N. Gobi	201641032148	Construction of polymeric/electro spun composite membrane for water filtration and a method thereof	21.09.2016	30.09.2016
24	Dr. K. Malathi, S. Ramprabhu	201641032341	Polarization independent reconfigurable 3D frequency selective surface and method thereof	22.09.2016	30.09.2016
25	Dr. K. Malathi, K. P. Jayaram	201641032342	A multiservice chipless RFID transponder	22.09.2016	30.09.2016

26	Dr. K. Malathi, R. Vimal Samsingh, S. Sangeetha, P. Yogeshwari, Saffrine Kingsly	201641032343	Electromagnetic nondestructive material characterization of dielectrics deploying planar EBG based transmission line sensor	22.09.2016	30.09.2016
27	Dr. K. Malathi, K. P. Jayaram	201641032344	A magnetic coupling UHF near field rfid reader antenna deploying CSRR elements	22.09.2016	30.09.2016
28	Dr. K. Malathi, V. Sangeetha, Saffrine Kingsly, P. Yogeshwari	201641032345	Planar quad-band rat-race coupler with spurious pass-band suppression	22.09.2016	30.09.2016
29	Vaidheeswaran Sivanesan, Subramanian Sundaramoorthy	201741000650	Leakless facial shape fitting component for respirators	06.01.2017	27.01.2017
30	Dr. K. Malathi, P. Sandeep Kumar, E. Lavanya, P. Yogeshwari, S. Sangeetha, Saffrine Kingsly	201741008383	Rhombic compound reconfigurable antenna	10.03.2017	24.03.2017
31	Dr. K. Malathi, N. Rajesh	201741008376	Integrated vivaldi antenna with switchable radiation pattern	10.03.2017	24.03.2017
32	Dr. K. Malathi, Yogeshwari Panneer Selvam, P. Sandeep Kumar, Saffrine Kingsly, &	201641024647	Dual mode polarization diverse antenna array	19.07.2017	31.03.2017

	Sangeetha Subbaraj				
33	K. Vigneshwaran, A. Sureshkumar,	201641024483	Footboard accident prevention system	18/07/2016	31.03.2017
34	B. Dhayalini, R. Senthil	201741004535	A Biodegradable acoustic panel from small millets husk	08.02.2017	31.03.2017
35	M. Kanthababu, R. Giri	201741012118	A method for operating optimal assembly sequence in an indexing table using genetic algorithm	04/04/2017	21.04.2017
36	M. Kanthababu, S. Gowri, R. Prabhakaran, K. R. Sunilkumar, M.S. Ajmal Deen Ali	201741016668	Condition monitoring system for focusing nozzle wear in abrasive waterjet machine comprising acoustic emission sensor	12.05.2017	19.05.2017
37	M. Kanthababu, S. Gowri, R. Prabhakaran, K. R. Sunilkumar, M.S. Ajmal Deen Ali	201741016669	Condition monitoring system for focusing nozzle wear in abrasive waterjet machine comprising cutting force dynamometer	12.05.2017	19.05.2017
38	Dr. A. Peer Mohamed, Dr. S. Subramanian, P. Kathirvel V. Preethi	201641027276	Devices to reduce inter fibre friction in roller drafting system for yarn manufacture	10.08.2016	08.09.2017

39	C. Ramachandran, R. Sudha Rani, Dr. Usha Antony	201641040735	Semi-cooked and dried ready-to-cook porridge from processed finger millet (eleusine coracana)	29.11.2016	08.09.2017
40	C. Ramachandran, R. Sudha Rani, Dr. Usha Antony	201641040736	Ready-to-cook, bio-fortified, fermented batter with extended shelf-life and heat-stable probiotics	29.11.2016	08.09.2017
41	C. Ramachandran, R. Sudha Rani, Dr. Usha Antony	201641040751	Incorporation of heat stable probiotics and bioactive compounds into semi-dried ready-to-cook food	29.11.2016	08.09.2017
42	Noel Jacob Kaleekkal D. Mohan,	201741031660	Method of preparing fouling resistant polyetherimide mixed matrix membranes	07/09/2017	22.09.2017
43	K. Thanigal Arul, S. Narayana Kalkura, J. Ramana Ramya, E. Manikandan	201741031668	Bionanocomposite coating and its method thereof	07.09.2017	22.09.2017
44	J. K. Pallavi	201741032819	Dia-dahi: a prebiotic formulation of milk/curd/yoghurt/buttermilk that can regulate blood glucose	16.09.2017	22.09.2017
45	A. J. D Nanthakumar, J. Jancirani	201741036049	A real time adaptable damper	11.10.2017	20.10.2017
46	Dr. S. Subramanian, Dr. A. Peer Mohamed	201641043615	Modified cradle and nose bar for apron drafting system	21.12.2016	24.11.2017
47	R. Nandhakumar, Dr. S. N. Deepa, B. Arunadevi	201741041426	Automatically deployable and retractable vehicle sheathe system	20.11.2017	24.11.2017

48	J.Kumar C. Bagavath	201741043550	Disposable nitric oxide sensor construction using gallium nitride nanowires and its method thereof	05/12/2017	15.12.2017
49	M. Kanthababu, V. Vidyaa	201741046617	Fatigue testing machine for mechanical microgrippers	26/12/2017	05.01.2018
50	M. Kanthababu V. Vidyaa	201741046610	Micro arc welding machine	26/12/2017	05.01.2018
51	M. Kanthababu, S. Anish Kumar, M. S. Ajmal Deen Ali, R. Madhumathi	201741046614	lot enabled online condition monitoring of the exhaust gas emission system of the automobiles using gas sensors	26/12/2017	05.01.2018
52	J. Jancirani A. Sangeet Sahaya Jeyangel G. Anandraj	201841001033	Air curtain side skirt for reducing underbody drag	10/01/2018	19.01.2018
53	M. Kanthababu, S. Akash, M. Jeeva, B. Manikandan Shreyas M Kabirdass	201841013438	Internet of things based cam actuated bell	09/04/2018	13.04.2018
54	M. Kanthababu, K. R. Sunil Kumar	201841022038	IOT enabled tool wear condition monitoring system for cnc turning comprising sound	13/06/2018	22.06.2018



	A. Sarath Kumar		sensor		
55	M. Kanthababu, K. R. Sunil Kumar	201841022047	IOT enabled tool wear condition monitoring system for cnc turning comprising acoustic emission sensor	13/06/2018	22.06.2018
56	M. Kanthababu, K. R. Sunil Kumar	201841022035	IOT enabled tool wear condition monitoring system for CNC tuning comprising Accelerometer sensor	13/06/2018	22.06.2018
57	M. Kanthababu, K. R. Sunil Kumar	201841022044	IOT enabled tool wear condition monitoring system for CNC tuning comprising multiple sensors	13/06/2018	22.06.2018
58	N. Gobi B. Devi	201841025473	Method to synthesis tio2 nanoparticles and lycopene - tio2 nanoparticles complex	09/07/2018	13.07.2018
59	R. Ramakrishnan Noel Jacob Kaleekkal T. Sivakumar D. Mohan	201841027725	Mixed Matrix Polymeric Membrane Catalytic Reactor for Carbohydrate Valorization and Separation and Method thereof	24/07/2018	27.07.2018
60	A. Rajadurai, Suresh Patil	201841028671	Chlorine-Doped Tin Monoxide the D Type transparent conducting particles and manufacturing process thereof	31/07/2018	03.08.2018

61	Shubra Singh, Suchita, Vavilapalli Durga Sankar	201841028665	Method for developing Ca <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> Nanoparticles for Enhanced Photocatalysis under direct Sunlight	31/07/2018	03.08.2018
62	Shubra Singh, Vavilapalli Durga Sankar	201841028670	Method for synthesis of sillenite Bi <sub>12</sub> FeO <sub>20</sub> single crystals	31/07/2018	03.08.2018
63	N.Gobi S.Arun Karthick	201841029428	Multifunctional nanocomposite nanofibrous filter for aerosol filtration, chemical and biological protection	06/08/2018	17.08.2018
64	A. Saravanakumar Madhankumar, & K.Saravanakumar, Souhith	201841031722	Ground Testing Apparatus for Solar Sails	24/08/2018	31.08.2018
65	S. Chitrakala	201841031721	Automatic scene understanding assistive system with refreshable tactile device including voice for visually impaired people	24/08/2018	31.08.2018
66	N. Vasudevan G. Sunantha	201841015253	Method for detecting PFOA and PFOS in water samples using Genetically Engineering Bacterial Biosensor	23/04/2018	07.09.2018
67	K. Kamalanand, A. Paramasivam, C. Emmanuel	201841033641	An apparatus for generation of gastric electric waveforms in normal and abnormal conditions	07/09/2018	14.09.2018

	P. Mannar Jawahar				
68	S. Thanigaiarasu, & K. Rajaguru Nathan	201841033139	Aerodynamically Designed Variable Trailing Edge Serrations for Vertical Axis Wind Turbine Blades	04/09/2018	14.09.2018
69	S. Thanigaiarasu, K. Rajaguru Nathan	201841033159	Aerodynamically shaped feathered winglets for vertical axis wind turbine	04/09/2018	14.09.2018
70	S. Thanigaiarasu, S. A. Dawn Pradeeb	201841033156	Effect of nozzle rotation on mixing characteristics of subsonic jets	04/09/2018	14.09.2018
71	S. Thanigaiarasu S. Venkataramanan	201841033145	Vortex Generators in Increasing the mixing characteristics of high speed jets	04/09/2018	14.09.2018
72	N. Gobi R. Senthil	201841033152	Blended Suture for Surgical Application and a preparation process thereof	04/09/2018	14.09.2018
73	J Jancirani. A. Sangeet Sahaya Jeyangel G. Anandraj	201841039705	Conduit side skirt for underbody drag reduction	22/10/2018	26.10.2018
74	K. Senthil Kumar, S. Thamarai Selvi	201841042082	Ground object position annotation using standalone on-board embedded system	08.11.2018	16.11.2018

75	K. Senthil Kumar, S. Thamarai Selvi	201841042078	Tethered aerial platform	08.11.2018	16.11.2018
76	D. Arivuoli Preethi Ramadoss	201841044636	Biodegradable sanitary napkin for personal and environmental hygiene and method thereof	27/11/2018	07.12.2018
77	K. Senthil Kumar, S. Thamarai Selvi, A. Mohamed Rasheed	201841032030	An arming and guidance switch for an unmanned aerial vehicle and a method of operating thereof	27.08.2018	15.02.2019
78	M. Kanthababu	201941027751	An interactive lamp system for communication between users without using smart mobile communication devices	11/07/2019	02.08.2019
79	Anna University, Chennai	201941027752	Software defined radio-based ground receiving station system for low earth orbit satellites communication	11/07/2019	02.08.2019
80	Anna University, Chennai	201941030202	A scalable compact UV-LED photo catalytic reactor	26.07.2019	09.08.2019
81	Anna University, Chennai	201941042605	A method for detection of phthalate esters in drinking water and beverages	21/10/2019	01.11.2019
82	Anna University, Chennai	201941040877	A hand gesture recognition system for speech impaired people and a method thereof	10/10/2019	25.10.2019
83	Anna University Chennai	201941046038	Method of growing metal oxide micro particles on pencil graphite as a binder free electrode for a coaxial asymmetric super	13/11/2019	29.11.2019

			capacitor(Casc)&method for fabricating the same		
84	Anna University Chennai	202041019232	Ground water recharge system using soil ventilation technique	06.05.2020	22.05.2020
85	Prof. N. Vasudeven, Dr. O. Greeshma	201941030196	A process for treating pesticide contaminated water	26.07.2019	08.05.2020
86	Prof. N. Vasudeven, Dr. O. Greeshma	201941039118	A novel and comprehensive process for production of biogas and fuel oil from used feminine sanitary napkins (UFSN)	27.09.2019	08.05.2020
87	Anna University, Chennai	202041020116	Method for mitigation of methane released from agricultural lands	13.05.2020	22.05.2020
88	Anna University, Chennai	201941021876	Process of producing amino acids from its ketoacid by enzyme amino acid dehydrogenases	03.06.2019	05.06.2020
89	Anna University, Chennai	202041019235	Two stage process for treating pyrethroid pesticide wastewater using halotolerant bacteria	06.05.2020	05.06.2020
90	Anna University, Chennai	202041023617	A suture force measurement system for surgical procedures	05.06.2020	12.06.2020
91	Anna University, Chennai	202041025020	Hyper cross-linked iron-queracetin-3-malonylglucoside in textile wastewater treatment	15.06.2020	26.06.2020

92	Anna University, Chennai	201941048041	Flexible and biodegradable polymer composite for sensing sweat glucose	25.11.2019	26.06.2020
	Anna University, Chennai & L&T Construction Limited	202041007025	Multi-zone attached growth batch bio-reactor & method of biological treatment of domestic wastewater	19.02.2020	24.02.2020
	Anna University, Chennai	202041025876	A vehicle speed monitoring and controlling system using geofencing technology and a method thereof	19.06.2020	03.07.2020
	Anna University, Chennai	202041025878	A system for automatic detection of vehicular accidents and a method thereof	19.06.2020	03.07.2020
	Anna University, Chennai	202041025872	A system for monitoring exhaust of the vehicle based on IoT and a method thereof	19.06.2020	03.07.2020
	Anna University, Chennai	202041028146	Method for producing glycerol carbonate by direct carbonation reaction of glycerol and co2 presence of heterogeneous catalyst	02.07.2020	17.07.2020
	Anna University, Chennai	20204108142	Lyophilized nano – hydroxyapatite a bio friendly adsorbent for fluoride adsorption	02.07.2020	10.07.2020
	Anna University, Chennai	202041029694	A signal generating device for calibration of electromyogram (EMG) acquisition devices and a method thereof	13.07.2020	31.07.2020
	Anna University, Chennai	202041029695	A galvanic skin response (GSR) signal device and method for GSR waveforms recording system	13.07.2020	31.07.2020

	P. Sakthivel, Sridhar Udayakumar, Manjula Pattnaik, Balachandra Pattanaik, S. Palaniyappan, and Shikha Maheshwari,	202041032422	Method for detecting the malpractice in online examinations by motion detection	29.07.2020	21.08.2020
	Anna University, Chennai	202041033301	A pneumatic decompression therapeutic device for treatment of localized edema in patients with Lymphatic filariasis	04.08.2020	14.08.2020
	Anna University	202141013917	Cold formed Steel Hybrid Double t Box Girdres	29.03.2021	09.04.2021
	Anna University	202141013921	An image description generating system and method for visuallyimpaired people	29.03.2021	09.04.2021

**Patent Granted Details  
2015-16 to 2020-21**

<b>S.No</b>	<b>Name of the Applicant</b>	<b>Grant Number</b>	<b>Title of the Application</b>	<b>Filing Date</b>	<b>Year of Grant</b>
1	Tata Consultancy Services, Anna University, Chennai	US 9082042	System and method for classification of moving object during video surveillance	29/07/2011	14.07.2015
2	KBC Research Foundation Pvt. Ltd, Anna University, Chennai	US 12/716,803	Methods and systems for detecting a preamble of a data packet in wireless communication systems	03/03/2010	26.04.2014
3	Registrar, Anna University, Chennai,	276270	Method of bacterial lipid modification of hu-ifn- $\gamma$ for enhanced sensitivity of detection in ELISA	03/09/2010	14.10.2016
4	Registrar, Anna University, Chennai,	275504	Chimeric peptide vaccines for lymphatic filariasis	20/04/2011	09.09.2016
5	Registrar, Anna University, Chennai,	278637	Immunogenic composition for lymphatic filarial vaccine	20/04/2011	30.12.2016
6	Registrar, Anna University,	276679	A bacterial lipid modification of a filarial protein to enhance the immune-prophylactic efficacy in	15/06/2011	04.11.2016



	Chennai,		animal & humans		
7	Registrar, Anna University, Chennai	282117	A process to characterize biochemical reactions using sensor instrumentation based on capacitance and conductance change	18/10/2010	07.04.2017
8	Dr.N. Vasudevan, Veenagayathri,	282627	A method for biodegradation of chlorophenols by a halotolerant bacterial consortium under saline conditions	27/04/2010	21.04.2017
9	Tata Consultancy Services, Anna University, Chennai	EP11169344A	A system and method for classification of moving object during video surveillance	09.06.2011	18.10.2017
10	Registrar, Anna University, Chennai,	291589	A method to detect bacterial growth and antibacterial resistance based on fluorescence quenching	02/07/2010	19.01.2018
11	Dr.N. Vasudevan, V. R. Manoj,	295017	A method for the treatment and recirculation of aquaculture wastewater	14/06/2010	06.04.2018
12	Mark Crocker, Rodney Andrews, A. Pandurangan, Dali Qian,	US12942396	Method for production of germanium nanowires encapsulated within multi-walled carbon nanotubes	09/11/2009	24.04.2018
13	Tata Consultancy Services, & Anna University, Chennai	299550	A system and method for classification of moving object during video surveillance	29.07.2010	31.07.2018

14	Registrar, Anna University, Chennai	299588	Aerodynamic drag reduction of a hatch back car using base bleed	10.12.2010	03.08.2018
15	Dr. M. Alagar, S. Devaraju	305656	One pot synthesis of novel skeletal modified diamine used as a curative and impact modifier for epoxy resins	25.04.2014	18.01.2019
16	Dr. S. Kanmani, V. Preethi	308383	Gas-phase recovery of hydrogen from hydrogen sulphide using photocatalysis	24.02.2015	08.03.2019
17	Malathi Kanagasabai, Thipparaju Ram Rao, Sandeep Kumar Palaniswamy, Saffirine Kingsly, Mohammed Gulam Nabi Alsath, Deepa Thangarasu, Padmathilagam Sambandam, Sangeetha Subbaraj Yogeshwari Panneer Selvam	US10333225B1	Multiband reconfigurable microwave filtenna	24/02/2018	25.06.2019
18	Malathi Kanagasabai, Jayaram K .P., M. Gulam Nabi Alsath	322861	A UHF RFID reader antenna integrated with near field and far field operations	06.10.2015	15.10.2019
19	K.V. Radha, V. Thamilselvi	329942	Corncob adsorbent for waste water treatment	17/3/2016	22.01.2020
20	Registrar, Anna University, Chennai	334492	Dual band notched dielectric resonator reflect array for C/X band	04/04/2012	12.03.2020

21	Dharmalingam Sangeetha, Santhanam Senthil Kumar, Srinivasan Guhan, Lakshmanan Babu	335241	Design and development of a proton exchange membrane fuel cell stack	03/06/2010	19.03.2020
22	Anna University, Chennai	336780	Disposable nitric oxide sensor construction using gallium nitride nanowires and its method thereof	05/12/2017	13.05.2020
23	Dr. A. Pandurangan & S. Chandrakishore	345147	Novel catalyst-free self seeded method for the production of C-SI-GE and nanotubes by CVD	07/11/2014	26.08.2020
24	K.Shanmuga Sundaram & S.Rajiv	343841	Fabrication of Electromagnetic forming machine	07.06.2012	10.08.2020
25	R.Velraj & V. Gayathri	347381	Harnessing energy from nature/ocean/large water bodies for the operation of compressed air energy storage system integrate with renewable energy sources for power generation	19.01.2018	22.09.2020
26	N.Gobi & S.Arun Karthick	354229	Multifunctional nanocomposite nanofibrous filter for aerosol filtration, chemical and biological protection	06/08/2018	22.12.2020
27	D. Arivuoli & Preethi Ramadoss	355605	Biodegradable sanitary napkin for personal and environmental hygiene and method thereof	27/11/2018	11.01.2021
28	Anna University, Chennai & L&T Construction Limited	356748	Multi-zone attached growth batch bio-reactor & method of biological treatment of domestic wastewater	19.02.2020	27.01.2021

29	Anna University, Chennai	358457	Method for producing glycerol carbonate by direct carbonation reaction of glycerol and co2 presence of heterogeneous catalyst	02.07.2020	12.02.2021
30	Shubra Singh, Suchita, & Vavilapalli Durga Sankar	360199	Method for developing Ca <sub>2</sub> Fe <sub>2</sub> O <sub>5</sub> Nanoparticles for Enhanced Photocatalysis under direct Sunlight	31/07/2018	04.03.2021
31	Malathi, & K. P. Jayaram	364763	A multiservice chipless RFID transponder	22/09/2016	16.04.2021
32	Dr. K. Malathi, Aswathy K Sarma, A. Henridass, C. Raviteja, V. Sangeetha, & M. Gulam Nabi Alsath	366853	Mutual coupling reduction in MIMO antenna with serpentine type structure resonator	30/05/2014	17.05.2021
33	Malathi Kanagasabai, Esther Florence S, and Vimal Samsingh R	370289	A Method To Fully Integrate Multi-Layer Woven Electro-Textile Patch Antenna	19.10.2015	25.06.2021

