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**Patent Published Details**

**2015-16 to 2020-21**

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| **S.No** | | **Name of the Applicant** | **Application Number** | **Title of the Application** | **Filing date** | **Year of publication** |
| 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 enginer | 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 |
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| 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, & Sangeetha Subbaraj | 201641024647 | Dual mode polarization diverse antenna array | 19.07.2017 | 31.03.2017 |
| 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. ThanigaI 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 |
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| 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 |
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| 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 | Iot 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 A. Sarath Kumar | 201841022038 | IOT enabled tool wear condition monitoring system for cnc turning comprising sound sensor | 13/06/2018 | 22.06.2018 |
| 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 |
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| 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 Ca2Fe2O5 Nanoparticles for Enhanced Photocatalysis under direct Sunlight | 31/07/2018 | 03.08.2018 |
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| 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 imapaired people | 24/08/2018 | 31.08.2018 |
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| 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 |
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| 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 |
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| 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 capacitor(Casc)&method for fabricating the same | 13/11/2019 | 29.11.2019 |
| 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 |
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|  | 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 |
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|  | 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 |
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**Patent Granted Details  
2015-16 to 2020-21**

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| **S.No** | **Name of the Applicant** | **Grant Number** | **Title of the Application** | **Filing Date** | **Year of Grant** |
| 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-? for enhanced sensitivity of detection in ELISA | 03/09/2010 | 14.10.2016 |
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| 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 |
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| 11 | Dr.N. Vasudevan, V. R. Manoj, | 295017 | A method for the treatment and recirculation of aquaculture wastewater | 14/06/2010 | 06.04.2018 |
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| 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 |
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| 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 |
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| 22 | Anna University, Chennai | 336780 | Disposable nitric oxide sensor construction using gallium nitride nanowires and its method thereof | 05/12/2017 | 13.05.2020 |
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| 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 generatiom | 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 |
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| 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 |
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| 31 | Malathi,  &  K. P. Jayaram | 364763 | A multiservice chipless RFID transponder | 22/09/2016 | 16.04.2021 |
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| 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 |