

PUBLISHED PATENTS From 2015 To 2021

| S.NO | Year | Total | Title of the Patent | Name(S) of the Inventor(S) | Patent Application Number | Date Of Publication |
|--|------|-------|---|--|---------------------------|---------------------|
| Automobile Engineering / Automobile Electronics | | | | | | |
| 1 | 2015 | 1 | Safe Calls For Vehicle Riders | Ganesan Kaliyaperumal Vishnu S, Nair Jenish Abraham. V | 5396/CHE/2015 | 14-April-2015 |
| 2 | | 2 | Imaging Based Automatic Vehicle Windshield/Window Tint Detection System | Kaliyaperumal Ganesan, Swapnil M Parate | 5580/CHE/2013 | 12-June-2015 |
| 3 | | 3 | Mobile Usage Denial System While Driving Vehicles | Kaliyaperumal Ganesan, Sidda Mahesh Reddy | 5578/CHE/2013 | 12-June-2015 |
| 4 | | 4 | Detection Of Improper Usage Of Clutch | Rammohan A, Kaliyaperumal Ganesan, Sree Harsha K, Navaneeth Ankam | 5581/CHE/2013 | 12-June-2015 |
| 5 | 2016 | 1 | Next Generation Remote Control | Ganesan K., Santosh K.,Surya Rao T J N., Narasimha Rao K., Mahesh M B S, Balaji Gupta S., Manikanta D | 2010/CHE/2013 | 10-June-2016 |
| 6 | | 2 | Customer Centric Secured Locker System | Kaliyaperumal Ganesan, Kanaga G | 5576/CHE/2013 | 24-June-2016 |
| 7 | | 3 | Electronic Belt For Waist Measurement | Kaliyaperumal Ganesan, Surya Rao T J N, Narasimha Rao Kommuri | 5582/CHE/2013 | 24-June-2016 |
| 8 | | 4 | Smart Bin Tracking System | Kaliyaperumal Ganesan.Sayan Giri, Satyajit Bhattacharya | 5443/CHE/2014 | 1-July-2016 |
| 9 | 2017 | 1 | Internet Of Things (Iot) Enabled Smart Cooking System | Ganesan K, Revathi T | 5395/CHE/2015 | 14-April-2017 |
| 10 | 2018 | 1 | A Vehicle Traction System | Subramaniam C,Ganesan K, Givith Abraham, Jayapal Chodon, Jerin Geogy George, Nithin Puthiyaveetil, Siddharth M | 201641027055 | 9-February-2018 |
| 11 | | 2 | Automatic Vehicle Air Conditioner Load Manager System And Method | Ganesan K, Rammohan A R., Mathiazhagan | 201841037007 | 30-November-2018 |
| 12 | | 3 | Energy Utilization System And Method For A Two-Wheeler | Subramaniam C K., Ganesan K, Ratayan Jeta | 201741020328 | 14-December-2018 |
| Mechanical Engineering | | | | | | |
| 13 | 2016 | 1 | Structure To Reduce Noise In Linear Switched Reluctance Motor | Lenin N C; Arumugam R | 3330/CHE/2014 | 12-February-2016 |
| 14 | | 2 | Governor Controlled Dual Charger (Antilag Turbocharger) | Venugopal Thangavel, Tapan Mujumdar Abhisek Kumar Singh | 4477/CH E/2014 | 1-July-2016 |
| 15 | 2017 | 1 | Single Axis Semi Automatic Tracking Mechanism For Solar Invention | Srinivas T | 5030/CHE/2015 | 21-July-2017 |
| 16 | | 2 | Tri Generation Cycle | Srinivas T | 5029/CHE/2015 | 21-July-2017 |
| 17 | | 3 | Sliding Vane Internal Combustion Engine | Kovalan S, Arun Tom Mathew | 201641016649 | 17-November-2017 |
| 18 | 2018 | 1 | A Mobile Vehicle Garage Assembly | Kshiti Bhopalkar, Arun Tom Mathew | 201641034360 | 13-April-2018 |
| 19 | | 2 | Seat Position Adjusting Mechanism For Lifting And Shifting A Seat Of A Wheelchair | Ramakrishnan R, Saransh Chawchharia, Anirudhparmar, Akshay Bhaskar | 201841034478 | 2-November-2018 |
| 20 | | 3 | Hybrid Power Generator Assembly For Hybrid Generation Of Electricity | Natarajan Ramakrishna | 201741016654 | 17-November-2018 |
| 21 | | 4 | Solar Pv Panels Assembled As A Raceway Pond For Generating Electric Power And Cultivating Algae | Natarajan Ramakrishna | 201841037173 | 30-November-2018 |
| 22 | | 5 | Asymmetric Strain Wave Gearing System | Bikas Routh | 201841005925 | 30-November-2018 |
| 23 | 2019 | 1 | Rotating Radiator For Improved Heat Transfer In Motor Vehicles | Abinav Shankar, Ashok, Yagnavalkya Mukkamala | 201741025506 | 25-January-2019 |
| 24 | | 2 | A Novel Two Speed Transmission Gearbox For A Differently Abled Friendly Wheel Chair | Ramakrishnan R, Ankit Sharma | 201941009878 | 22-March-2019 |
| 25 | | 3 | Multi Thermocouple Technique To Nullify Radiation Error In Temperature Measurements | Vijesh V, Shirang Ambaji | 201941011055 | 24-March-2019 |
| 26 | | 4 | Process Of Manufacturing A Ti-Based Implant With Improved Surface Properties | Revathi A, Geetha Manivasagam, Sathya Swaroop | 201941005757 | 9-August-2019 |
| 27 | 2020 | 1 | An Automated System For Sanitizing A Pre-Defined Vicinity | Arivazhagan Natarajan, Harsh Umang, Harshal Thikare, Madhukumar S | 201941047690 | 3-February-2020 |
| 28 | | 2 | Walker Assembly For Hemiplegic Patients | Arun Tom Mathew, Prahlad Rajhans | 201841044742 | 29-May-2020 |
| 29 | | 3 | An Integrated Tool Holder Device With A Multi-Cooling System | Venkatesan Kannan, Devendiran Sundararajan, Arun Tom Mathew | 201941005826 | 21-August-2020 |
| 30 | | 4 | Variable Stroke Volume Reciprocating Pump | Naman Sachdeva, Edision G, Saksham Verma, Shreyas Shanker, Bhavya Mathur | 201941015369 | 20-October-2020 |
| 31 | 2021 | 1 | Cutting Tool To Drill Square Holes | RAJYALAKSHMI G, ARAVIND RAJ S, PUSHPARAJ R M | 201941044985 | 7-May-2021 |
| 32 | | 2 | A Solar Assisted Close Coupled Hybrid Desiccant Wheel System With A Catalytic Combustion Unit | Mr. Selvaraj, Dr. Sekarapandian Natarajan | 202141005376 | 08-October-2021 |
| 33 | | 3 | A Liquid-Cooled Battery Thermal Management System For A Two-Wheeler Vehicle | Dr. Thundil Karuppa Raj Rajagopal, Dr Elangovan Devaraj, Mr. Jeevesh Jain, Mr. Sumit Nilesh Vadodaria | 202141005377 | 02-April-2021 |
| 34 | | 4 | MODULAR FILTRATION SYSTEM FOR HARVESTING PURE RAINWATER | Sejal Budhojiya, Aayush Bhat, Anubhav Anurag, Dr.S.Aravind Raj | 202141017620 | 7 -Feb-2021 |

| Bio Sciences And Technology | | | | | | | |
|---|------|------|----|---|--|--|-------------------|
| 35 | 2017 | 1 | 1 | Method Of Enhancing Antimicrobial Acivity Using Linear Alkylbenzene Sulphonate (LAS) | Jayaraman G, Rajiniraja M | 201641009938 | 29-September-2017 |
| 36 | 2018 | 1 | 2 | A Nanobiocomposite For The Removal Of Mercury(Ii) Ions From Aqueous Solution | Devlina Das, Lina Rose Varghese, Nilanjana M | 201641034054 | 6-April-2018 |
| 37 | | 2 | 3 | A Layered Double Hydroxide (Ldh) For The Remediation Of Organophosphate Pesticides | Sahithy A K, Devlina Das, Nilanjana M | 201641039253 | 18-May-2018 |
| 38 | | 3 | 4 | A Pharmaceutical Composition For Inhibiting The Protein Kinase B (Pknb) Of Mycobacterium Tuberculosis | Sivakumar A , Jayraman G, Pannerselvam T | 201741013375 | 19-October-2018 |
| 39 | | 4 | 5 | Stabilization Of Lyophilized Caudovirales Bacteriophages | Ramesh N, Prasanth .M | 201841034247 | 2-November-2018 |
| 40 | | 5 | 6 | Non-Invasive Salivary Glucose Estimator For Estimating A Concentration Of Glucose Present In Saliva Sample | Radha Saraswathy, Murugan Ezumalai | 201741019077 | 7-December-2018 |
| 41 | | 6 | 7 | Bio Compisition For Degrading Phenylpyrazole Insecticide | Jayanthi Abraham , Anugurga G, | 201741020327 | 14-December-2018 |
| 42 | | 2019 | 1 | 8 | Bread Making Process To Reduce Residual Bromate | Ramalingam Chidambaram, Chandan Krishnamoorthy | 201941026398 |
| 43 | 2 | | 9 | Hybrid Hydrogel Dispersed Low Fat And Heat Resistant Chocolate | Ramalingam Chidambaram, Florentina Priyangini Francis | 201941029712 | 31-July-2019 |
| 44 | 2020 | 1 | 10 | Bioactive Compounds Against Leishmania Donovanii And Method Of Production Thereof | Veena Sreedharan, Kokati Venkata Bhaskara Rao | 201841043275 | 22-May-20 |
| 45 | 2021 | 1 | 11 | Rapid Sperm Genomic DNA Isolation Protocol And Kit | Parameswari R, Sridharan T.B. | 201941033490 | 26-February-2021 |
| Electronics Engineering | | | | | | | |
| 46 | 2016 | 1 | 1 | Polymer Blend Composition With Inceasd Weld Line Strength And Process Of Preparation Of The Same | Arungalai Vendan | 4415/CHE/2014 | 1-July-2016 |
| 47 | | 2 | 2 | Thermoplastic Elastomeric Blend Composition With Increased Weld Strength And Quality , And Process Of Preparation Of The Same | Arungalai Vendan, Chinnadurai Thangam, Senthil Kumar K | 1071/CHE/2015 | 9-September-2016 |
| Electrical Engineering | | | | | | | |
| 48 | 2018 | 1 | 1 | Internet Of Things (Iot) Based Thin Film Biosensor To Detect Uric Acid | Vivekanandan S, Parthasarathy,P | 201841019379 | 29-November-2019 |
| 49 | 2019 | 1 | 2 | Current Fed Fuel Cell Powered High Voltage Charging Circuit For Electric Vehicles | Elangovan D, Peter K Joeseeph, Thundil Karupuraj | 201941048472 | 13-December-2019 |
| Advanced Sciences (Physics & Chemistry) | | | | | | | |
| 50 | 2016 | 1 | 1 | Method For Improving Compressive Residual Stress And Hardness In AISI 321 Stainless Steel Using LASER Peening | Kalainathan S, Karthik D, Sathya Swaroop N R | 1365/CHE/2015 | 30-September-2016 |
| 51 | | 2 | 2 | Method For Improving Surface Mechanical Properties In 17-4 Ph Stainless Steel Using Laser Peening | Kalainathan S, Karthik D, Sathya Swaroop N R | 1364/CHE/2015 | 30-September-2016 |
| 52 | 2017 | 1 | 3 | Optimized Method For Manufacturing Automotive Spring Steel With Enhanced Fatigue Properties | Kalainathan S, Prabhakaran S | 201641006199 | 25-August-2017 |
| 53 | | 2 | 4 | Process For Treating Material Surfaces Using Warm Laser Shock Peening Without A Coating | Kalainathan S, Prabhakaran S | 201641006200 | 25-August-2017 |
| 54 | 2018 | 1 | 5 | Stable Formulation Development For Nitroglycerin Sublingual Tablets By Direct Compression Technique With Povidone And Croscopolone | Sangeetha Dhanaraj, Manoj Kumar V | 201641022805 | 26-January-2018 |
| 55 | | 2 | 6 | Fluorescence "Turn-On" And "Naked Eye" Detection Of Aromatic Primary Amines By Tetrahydrodibenzo[A,I]Phenanthridine-5-Yl Phenols- Reactivity Based Approach | Sahityanarayanan Kulathu Iyer, Umamahesh B | 201641022804 | 26-January-2018 |
| 56 | | 3 | 7 | Removal Of Dyes From Effluents In Absence And Presence Of Light Employing A Novel Nanocomposite | Rajagopalan Vijayaraghavan, Lakshmi Prasanna Vaddadi | 201641024032 | 19-January-2018 |
| 57 | | 4 | 8 | Process For Severe Laser Shock Peening Using Low Enertry Nd: Yag Laser | Kalainathan S, Prabhakaran S | 201641031003 | 16-March-2018 |
| 58 | | 5 | 9 | Method Of Extracting Bioactive Compounds With Antidiabetic And Anticancer Activity From Pods Of Pithecellobium Dulce | Mary Saral A, Preethi S | 201741034217 | 2-November-2018 |
| 59 | | 6 | 10 | Organoruthenium Based Phototoxic Cancer Cell Markers And Methods Of Preparation And Use | Priyanka Pairs, Anuja Pluvavlapil Kumaran , Lavanya Thiak Babu Ashaparna Mondal | 201741020410 | 14-December-2018 |
| 60 | | 2021 | 1 | 11 | Process Of Preparing 2-Dimensional (2d) Molybdenum Carbide (Mo2C) | Ravuri Syamsi, A, Nirmala Grace | 201941025485 |
| 61 | 2 | | 12 | Formulation And Method Of Preparation Of A Bi-Layer Tablet For Enhancing Bioavailability Of Atorvastatin | S.R Suseem, Dhanish Joeseeph | 201941033022 | 19-February-2021 |
| 62 | 3 | | 13 | Photonic Crystal Based Optical Logic Gates That Employs An Optical Kerr Effect | Renju Rajan, K, Senthilnathan, P, Ramesh Babu | 201941034122 | 26-February-2021 |
| 63 | 4 | | 14 | Adapter For Fluorescence Imaging | Dr. Jitendra Satija, Sangeeta Yadav, S. Manoj Kumaran | 201941042478 | 23-April-2021 |
| 64 | 5 | | 15 | Internet Of Things (Iot) Based Fuel Meter | Kaliyaperumal Ganesan, R. Karthik , Rammohan. A | 201941034933 | 03-May-2021 |
| Civil Engineering | | | | | | | |
| 65 | 2016 | 1 | 1 | Development Of Eco-Bacterial Lime Mortar Using Kadukai And Jaggery | Sekar S K, Ravi.R, Thirumalini | 4631/CHE/2014 | 1-July-2016 |
| 66 | 2021 | 1 | 2 | A Prefabricated Assembly Of Grated Stone Columns For Improving The Performance Of Soft Grounds | Muthukumar M | 202141029295 | 02-April-2021 |
| Nano Biotechnology | | | | | | | |
| 67 | 2018 | 1 | 1 | Process For Detection Of Homocysteine In A Urine Sample Using Gold Nanoparticles Laden Detection Strip | Amitava Mukherjee, Chandrasekaran N, Abhinav Parashar | 201741007445 | 6-April-2018 |
| 68 | | 2 | 2 | Process For Scaling Up Of The Synthesis Of Zero Valent Iron Nanoparticles (Nzvi) | Amitava Mukherjee, Chandrasekaran N, Mrudula P, Deepak Kumar, Konda Venkata Giri R | 201741007444 | 6-April-2018 |
| 69 | | 3 | 3 | Process Of Synthesing Nano Zero Valent Iron-Calcium Alginate Beads For Removal Of Dye From Effluent | Amitava Mukherjee, Chandrasekaran N, Mrudula P, Konda Venkata Giri R | 201741005011 | 6-April-2018 |
| 70 | | 4 | 4 | Method For Detection Of A Warfare Agent Using Immobilised Acetylcholinesterase Enzyme In A Glass Substrate | Amitava Mukherjee, Chandrasekaran N, Dashanada Nanda Kumar | 201741005012 | 8-June-2018 |
| 71 | | 5 | 5 | Antibacterial Composition Effective Against Aeromonas Salmonicida Infection In Aquaculture | John Thomas, Chandrasekaran N, Amitava Mukherjee, Thangaivel S | 201741002439 | 27-July-2018 |
| 72 | | 6 | 6 | Seaweed Polysaccharide Nanoparticle And A Method Of Preparing The Same | Chandrasekaran N, Amitava Mukherjee, Jayakumar K, Saghya Infant Shofia B | 201741003682 | 3-August-2018 |
| 73 | | 7 | 7 | An Anti-Cancer Formulation Comprising Orange Oil Nanoemulsion | Chandrasekaran N, Amitava Mukherjee, Jayakumar K, Saghya Infant Shofia B | 201741004832 | 17-August-2018 |
| 74 | | 8 | 8 | Formulation Comprising Lemongrass Oil With Anti Bacterial Properties | Chandrasekaran N, Amitava Mukherjee, Andrew Ebenazer L | 201741005874 | 24-August-2018 |
| 75 | 2019 | 1 | 9 | Gold Nano Particle Immobilised Glass Substrate To Detect Melamine And The Method Of Detection | Amitava Mukherjee, Chandrasekaran, Ida Evangeline Paul | 201741027740 | 11-January-2019 |
| 76 | 2020 | 1 | 10 | In-Situ Synthesis Of Bimetallic Nzvi-Sand (Cu/Pd As Dopant) Using Fruit Peel Extract And Its Application For Tetracycline Removal | Amitava Mukherjee, Natarajan Chandrasekaran, Konda Venkata Giri Ravi Kumar, Geetha Gopal | 201941052328 | 3-January-2020 |
| 77 | | 2 | 11 | A Bimetallic Nano-Zeravalent Iron Nanoparticle Coated Quartz Sand And Method Of In-Situ Synthesis Thereof | Amitava Mukherjee, Chandrasekaran N, Konda Venkata Giri Ravi Kumar, Geetha gopal | 201941052328 | 3-February-2020 |

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| 78 | 2021 | 1 | 12 | Silver Nanoparticle-Based Biosensor For Detection Of Target Nucleic Acid Of Serotype Specific Dengue Virus | N.Chandrasekaran, Amitava Mukherjee, Saranya.V | 201941035852 | 12-March-2021 |
| 79 | | 2 | 13 | Cocktail Of Newly Isolated Lytic Bacteriophages Against Multi Drug Resistant Salmonella And Uses Thereof | Avtar Sain, Dr. N. S.Jayaprakash | 202041006569 | 20-April-2021 |
| 80 | | 3 | 14 | Adapter For Fluorescence Imaging | Jitendra Satija, Sangeeta Yadav, S. Manoj Kumaran | 201941042478A | 23-April-2021 |