



PSG Institute of Technology and Applied Research

Approved by AICTE, New Delhi Image Affiliated to Anna University, Chennai

Research and Development

List of Patents Granted

S.No	Name of the Patent	Patent No	Application No	Date of Filing	Date of Grant	Name of the inventors
1	Process for the Production of Alkali Metal Silicates and Aluminosilicates from Clay-Bonded and Sodium Silicate-Bonded Spent Foundry Sand	352814	201941026558	03/07/2019	01/12/2020	Dr.M.I.AbdulAleem, Mr.K.Kavikumaran, Dr.P.Prabunathan, Dr.M.Alagar
2	Preparation of Nano-Silica from Waste Foundry Sand	355945	202041002565	21/01/2020	15/01/2021	Dr.P.Prabunathan, Dr.M.Arun, Mr.K.Kavikumaran,Dr.M.Manoj, Dr.M.Alagar
3	Process for the Production of Novel Latent Self-Curable Epoxy Resins	385765	202141000869	08/01/2021	31/12/2021	Dr.M.Arun,Dr.K.Balaji,Dr.M.Alagar
4	A Facile Process Route for the Production of Active Zinc Oxide	397986	202141047109	18/10/2021	30/05/2022	Dr.A.Hariharan,Dr.K.Balaji, Dr.G.Latha,Dr.M.Alagar
5	Process for the Production of Sodium Silicate from Spent Foundry Sand	400379	201941016001	23/04/2019	29/06/2022	Dr.M.I.AbdulAleem, Mr.K.Kavikumaran, Dr.P.Prabunathan,Dr.A.Hariharan

6	Process for the Production of Novel Bio-Based Hybrid Polymeric Composites as Electrical Insulator	404562	202141038854	27/08/2021	25/08/2022	Dr.M.Mohamed Iqbal, Dr.A.Hariharan,Dr.K.Balaji, Dr.C.L.Vasu,Dr.M.Alagar
7	Parabolic Trough Solar Collector	424756	201841028741	31/07/2018	10/03/2023	Mr.T.Prem kumar, Mr.S.Saravanaraj, Mr.S.Kishore Kumar, Mr.S.Aravinth,Mr.K.Siddart
8	Method for Producing a TiO ₂ - Based Photocatalytic Microbial Dye Degrading Nanocomposite	436490	201941029820	24/07/2019	30/06/2023	Ms.Vedi Santhana, Dr.D.Thangaraju, Dr.S.Jayakumar,Dr.Matsuda Satoshi
9	Process for the Production of Imidazole-Nitrile Based Catalyst for Epoxy Resins	436858	202241071828	13/12/2022	03/07/2023	Dr.R.Sasikumar, Mr.Khaja Najimudeen Mohamed Mydeen,Dr.A.Hariharan,Dr.M.Alagar
10	Process for the Production of Polyphenols Using Cardanol	437235	202241071825	13/12/2022	04/07/2023	Dr.R.Sasikumar,Ms.Madesh Priyanka,Dr.A.Hariharan,Dr,M,Alagar
11	Memory Circuit with Minimized Leakage Current	444444	201741023894	07/07/2017	11/08/2023	Ms.Akshaya,Mr.R.Vasu,Dr.E.Malar
12	Apparatus for additive manufacturing to create composite structure	6301223		03/08/2023	12/08/2023	Dr. Rajeshkumar Guruswamy
13	Stretcher Convertible Wheelchair	448440	201941047213	19/11/2019	30/08/2023	Mr.J.Nagarjun, Mr.Mohamed Shakeel, Mr.R S Kathir Gowtham, Mr.V.Balaji, Mr.S V Naveen



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2	Parabolic Trough Solar Collector	201841028741	31/07/2018	Mr.T.Prem kumar, Mr.S.Saravananaraj, Mr.S.Kishore Kumar, Mr.S.Aravinth,Mr.K.Siddart
3	Process for the Production of Sodium Silicate from Spent Foundry Sand	201941016001	23/04/2019	Dr.M.I.AbdulAleem, Mr.K.Kavikumaran, Dr.P.Prabunathan,Dr.A.Hariharan
4	Process for the Production of Alkali Metal Silicates and Aluminosilicates from Clay-Bonded and Sodium Silicate-Bonded Spent Foundry Sand	201941026558	03/07/2019	Dr.M.I.AbdulAleem, Mr.K.Kavikumaran, Dr.P.Prabunathan, Dr.M.Alagar
5	Method for Producing a Tio ₂ - Based Photocatalytic Microbial Dye Degrading Nanocomposite	201941029820	24/07/2019	Ms.Vedi Santhana, Dr.D.Thangaraju, Dr.S.Jayakumar,Dr.Matsuda Satoshi
6	Stretcher Convertible Wheelchair	201941047213	19/11/2019	Mr.J.Nagarjun, Mr.Mohamed Shakeel, Mr.R S Kathir Gowtham, Mr.V.Balaji, Mr.S V Naveen
7	Preparation of Nano-Silica from Waste Foundry Sand	202041002565	21/01/2020	Dr.P.Prabunathan, Dr.M.Arun, Mr.K.Kavikumaran,Dr.M.Manoj, Dr.M.Alagar

8	Automated Ironing System	202041005797	11/2/2020	Mr.C.Goplal Krishnan, Mr.R.Vishal Subramaniam, Mr.S.C.Kousik, Mr.Nithesh Kumar, Mr.R.Santhosh Ram, Mr.R.Venkat Raghvan, Mr.A.Barath Narayanan
9	Process for the Production of Novel Latent Self-Curable Epoxy Resins	202141000869	08/01/2021	Dr.M.Arun,Dr.K.Balaji,Dr.M.Alagar
10	Process for the Production of Civil Engineering Construction Products from Waste Foundry Sand Using	202141007303	22/02/2021	Dr.A.Hariharan,Mr.K.Kavikumaran, Dr.M.I.Abdul Aleem,Dr.M.Alagar
11	Process for the Production of Novel Bio-Based Hybrid Polymeric Composites as Electrical Insulator	202141038854	27/08/2021	Dr.M.Mohamed Iqbal, Dr.A.Hariharan,Dr.K.Balaji, Dr.C.L.Vasu,Dr.M.Alagar
12	A Facile Process Route for the Production of Active Zinc Oxide	202141047109	18/10/2021	Dr.A.Hariharan,Dr.K.Balaji, Dr.G.Latha,Dr.M.Alagar
13	Process for the Production of Pyrimidinone Based Polymeric Materials	202241038726	06/07/2022	Dr.A.Hariharan,Dr.K.Balaji, Dr.G.Latha,Dr.M.Alagar
14	Process Route for the Production of Mesoporous Bio-Calcium Silicate from Sustainable Bio-Resources	202241056676	03/10/2022	Ms.A.Subasri, Dr.K.Balaji, Dr.A.Hariharan, Dr.G.Latha, Dr.M.I.Abdul Aleem, Dr.M.Alagar
15	Process Route for the Production of Hybrid Bio-Mass Briquettes	202241056678	03/10/2022	Dr.A.Hariharan,Dr.K.Balaji, Dr.M.I.Abdul Aleem, Dr.M.Mohamed Iqbal, Dr.M.Alagar
16	A System for Determining Anthropometric Measurements of an Individual	202241063242	05/11/2022	Mr.S.Thivaharan, Dr.V.C.Maha Vishnu, Mr.Isaac Abraham Thottathil, Mr.S.R.Nirmalswaran,
17	Device to Identify Powdery Mildew Disease in Grape Plants Using Computer Vision	202241067189	23/11/2022	Mr.S.Thivaharan, Dr.R.Ravikumar, Dr.D.Sivaganesan, Mr.A.S.Karthikeyan
18	Development of Re3ga5012-Based Hybrid Semiconductor for Energy Storage Applications	202241069331	01/12/2022	Dr.D.Thangaraju, Ms.Bagavathy Shanmughanathan, Ms.Priyadharshini Shanmugam, Ms.Govarthini Seerangan Selvam, Mr.Jesman Sthevan
19	A System to Monitor and Regulate Traffic on Ghat Roads	202241069951	05/12/2022	Mr.S.Thivaharan, Dr.D.Sivaganesan, Dr.R.S.Sankara Subramanian, Dr.G.Srivatsun, Mr.A.S.Karthikeyan
20	Process for the Production of Polyphenols Using Cardanol	202241071825	13/12/2022	Dr.R.Sasikumar,Ms.Madesh Priyanka,Dr.A.Hariharan,Dr,M,Alagar

21	Process for the Production of Imidazole-Nitrile Based Catalyst for Epoxy Resins	202241071828	13/12/2022	Dr.R.Sasikumar, Mr.Khaja Najimudeen Mohamed Mydeen,Dr.A.Hariharan,Dr.M.Alagar
22	Pneumatic System for Crushing one or more cans Automatically	202241073211	16/12/2022	Mr.M.Senthilvel, Mr.S.Ravikrishna, Dr.N.Saravanakumar, Ms.M.Hareni, Ms.M.Janani, Ms.N.Thaarikaa, Ms.N.Priyaadharesheni
23	Smart Refrigerator with Dual Compressor and Automatic Temperature Regulators	202341014204	02/03/2023	Mr.S.Thivaharan, Dr.D.Sivaganesan, Dr.V.C.Maha Vishnu, Mr.B.Ajith Jerom, Mr.S.Rathan Aswath
24	Production of Extreme Range of PH Indicators from Benzoxazines	202341027342	13/04/2023	Ms.S.Harinei, Dr.A.Hariharan, Dr.G.Latha, Dr.M.Alagar
25	Apparatus for additive manufacturing to create composite structure	6301223	03/08/2023	Dr. Rajeshkumar Guruswamy
26	System for ensuring a quality check of a component that is manufactured in a manufacturing unit	202341004832	11/08/2023	Dr. P.Reba, Dr. G. Santhanamari, M.Deepa, N.Susithra and M.M Suriyaa
27	IOT based disease prediction and diagnosis system for Healthcare using fuzzy Neural network classifier	202341033457 A	18/08/2023	Kala I
28	Process for production of thymol based polyphenols, epoxies and benzoxazine resins	202341054519	14/08/2023	Balaji K, K. Mohamed Mydeen, Hariharan A and Dr.M.Alagar