



HINDUSTAN
INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)

Department of Mechanical Engineering

PATENTS

(International and National)

2014 - 2025



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India



Index
(International)

S.No	Application number	Date of filling	Applicant name	Title of the Invention	Present status
1	2021105524	15.8.2021	Mr. Mathevan Pillai T	A system and methodology for preparing lignite oil tar slurry for substitute for furnace oil	Granted
2	2021106040	19.8.2021	Dr. Seralathan S (Dr. Hariram V)	An aerodynamically upgraded Bach type rotor device with external overlapping of blades	Granted
3	2021106042	19.8.2021	Dr. Hariram V	A method for replacement of forged automotive wheel with GFR sheet moulding compound material	Granted
4	2021106045	19.8.2021	Dr. Amal Rebin A X	An insect trapping device for domestic applications	Granted
5	2021106351	21.08.2021	Dr. Balaji D	A method for development of refractory castable for enhancing life of CFBC boilers	Granted
6	2021106355	21.8.2021	Dr. S. Sathish (Dr. Hariram V)	A system and method to improve biogas production from designed floating dome anaerobic digester	Granted
7	2021106704	21.8.2021	Muthukumaran, G.; Ramachandraiah, Uppu and Vijayabalan, P.	A patent essentials transport system	Granted



Index (National)

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1	5739/CHE/2014	14.11.2014	Dr. G Ravikumar Solomon	Enhancement of heat transfer during the solidification of PCM for free cooling applications	Granted on 19.5.2023
2	5748/CHE/2014	14.11.2014	Dr. Micha Premkumar	Design and fabrication of vertical axis wind turbine used in low wind speed regimes	Granted on 22.03.2023
3	201641023062	05.07.2016	Dr D G Harris Samuel	Design and development of double basin solar still with thermoelectric module with condensing chamber	Granted on 24.9.2021
4	201941014657	11.04.2019	Dr Hariram & Dr Seralathan	Power augmentation in vertical axis small wind turbine using magnetic bearing and booster nozzle combination	Granted on 28.12.2023
5	201941014664	11.04.2019	Dr Hariram V	Design and fabrication of batch type pyrolysis reactor to transform heterogeneous waste plastic into fuel	Granted on 21.3.2024
6	5738/CHE/2014	14.11.2014	Dr. T S Ravikumar	A novel design of CA4S Engine	Under Examination

7	201641023072	05.07.2016	Dr D G Harris Samuel	Design of effective cover cooling in a solar PV panel with baffles cum distillation system	Under Examination
8	201741026463	26.07.2017	Dr John Presin Kumar	Hybrid reinforced composite material for prosthesis and bone grafting substitutes	Under Examination
9	201941014655	11.04.2019	Dr Seralathan S	Flat plate collector to heat water for domestic applications using natural fibre as thermal insulator	Final Hearing
10	201941027370	07.09.2019	Dr John Presin Kumar	A simplified methodology for activated carbon synthesis for use as soil fertility improver along wit	Published
11	201941043896	30.10.2019	Mr Arun Raja A	Intra-layered hybrid natural fiber reinforced composite	Under Examination
12	201941052755	19.12.2019	Mr Arun Raja A	Wind powered operated pump	Published
13	202041009692	06.03.2020	Mr Abraham Eben Andrews A	Compressor less Peltier refrigerator	Published
14	202041009694	06.03.2020	Mr Abraham Eben Andrews A	Bio tank	Under Examination
15	202041036346	24.08.2020	Mr Arun Raja A	Methyl esters of Karanja oil for diesel engine	Published
16	202041049923	16.11.2020	Mr Arun Raja A	Tib 2 particulate reinforced al-alloy metal matrix composites	Published