

MANJARA CHARITABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI
(Permanently Affiliated to University of Mumbai)
DEPARTMENT OF MECHANICAL ENGINEERING

PATENTS

PATENTS
(2024-2025)

Sr. No.	Publisher	Title of the Patent	Patent ID/ Application Number	Date of Publication	Author/ Authors
1	Indian Patent Office	Central Receiver Tube With Modified Nano Additive Thermal Storage For Parabolic Trough Collector	202421060724	30/08/2024	Dr. Rajesh Kale

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(2023-2024)**

Sr. No.	Publisher	Title of the Patent	Patent ID/ Application Number	Date of Publication	Author/ Authors
1	Indian Patent Office	Machine for the Development of 2-D and 3-D Microfractals Through Lifting Plate Hele-Shaw Cell. (Utility Patent)	202321081635	05/01/2024	Prof. Amol Mangrulkar
2	Indian Patent Office	Quantify Renal Obstruction for Radiotracer 99mTc-DTPA and MAG3, Renal Diuretic Renography using Density Count Approach. (Utility Patent)	202321067312	24/11/2023	Prof. Amol Mangrulkar
3	Indian Patent Office	Design of Blended Wing Airplane (Design patent)	202321066482	24/11/2023	Prof. Amol Mangrulkar
4	Indian Patent Office	Improvement in Surface quality of hole and tool health of Helical Milling for Ti6Al4V using Hybrid Tri-nano Flood Coolant along with optimizing shearing parameters. (Utility Patent)	202321045685	01/09/2023	Prof. Amol Mangrulkar
5	Indian Patent Office	Dual Absorber Solar Water Heater with built-in Heat Exchanger	202421026834	03/05/2024	Dr. Rajesh Kale

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(2022-2023)**

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1	Indian Patent Office	Auxiliary Flap Turbocharger (AFT) for Automobile, Applications	202221001648	11/02/2022	Dr, R.V. Kale, Dr. S.U. Bokade
2	Indian Patent Office	Clamper for Turbocharger of petrol and diesel engines	322981-001	11/02/2022	Dr, R.V. Kale, Dr. S.U. Bokade
3	Indian Patent Office	Flapper for Turbocharger of petrol and diesel engines	340292-001	26/08/2022	Dr, R.V. Kale, Dr. S.U. Bokade
4	Indian Patent Office	Development of Nanoengineered ABS-MWCNTs composite using Fused Deposition Modeling (FDM) 3D Printing infill patterns	202221040861	05/08/2022	Prof. N.B. Shahapure

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(2020-2021)**

Sr. No.	Publisher	Title of the Patent	Patent ID/ Application Number	Date of Publication	Author/ Authors
1	Indian Patent Office	A flywheel powered bicycle with hybrid technology	202141013028	25/03/2021	Prof. A.L. Mangrulkar
2	Indian Patent Office	Installation and experimental and computational evaluation of an integrated thermal storage and solar	202141018162	30-04-2021	Prof. A.L. Mangrulkar
3	Indian Patent Office	An experimental investigation of the heat transfer in the thermal drying process, by convection of agricultural products	202141016992	23-04-2021	Prof. A.L. Mangrulkar
4	Indian Patent Office	Robust real-time action or pose recognition training model using 3d graphics engine	202011053368	11-12-2020	Prof. A.L. Mangrulkar

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(2020-2021)**

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1	Indian Patent Office	A flywheel powered bicycle with hybrid technology	202141013028	25/03/2021	Prof. A.L. Mangrulkar
2	Indian Patent Office	Installation and experimental and computational evaluation of an integrated thermal storage and solar	202141018162	30-04-2021	Prof. A.L. Mangrulkar
3	Indian Patent Office	An experimental investigation of the heat transfer in the thermal drying process, by convection of agricultural products	202141016992	23-04-2021	Prof. A.L. Mangrulkar
4	Indian Patent Office	Robust real-time action or pose recognition training model using 3d graphics engine	202011053368	11-12-2020	Prof. A.L. Mangrulkar
5	Indian Patent Office	Flapper of turbocharger for petrol and diesel engines	340292-001	03/06/2021	, Dr. S.U. Bokade, Dr.R. V. Kale
6	Indian Patent Office	Ergonomically Designed adaptable Laptop Briefcase With Adjustable Table & Cooling System	201821013670	11/10/2019	Prof. N.J. Panaskar

**PATENTS
(2019-2020)**

Sr. No.	Publisher	Title of the Patent	Patent ID/ Application Number	Date of Publication	Author/ Authors
1	Indian Patent Office	System And Method For Facilitating Mutual Interaction Between Institutes, Industries, Faculty, Alumni And Students	201821002569	26/07/2019	Prof. N.J. Panaskar

**PATENTS
(2015-2016)**

Sr. No.	Publisher	Title of the Patent	Patent ID/ Application Number	Date of Publication	Author/ Authors
1	European Patent Office	ACCUMULATOR FOR AN AIR CONDITIONING SYSTEM	EP 15173645 A 20150624	06-01-2016	Prof. A.V. Gotmare