

LIST OF PATENTS PUBLISHED AND GRANTED IN 2021 FOR NIRF

Patents Published in 2021: 9

Patents Granted in 2021: 16

Sl. No.	Patent Application No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM/YY)	Patent Published Date / Granted Date (DD/MM/YYYY)	Patent Publication Number / Patent Granted Number	Assignee/s Name (Institute Affiliation/s at time of Application)
2021- Patents Published									
1	202121027003	Published	Dr. M P Khond, Aayush Kaul, Juber Firoj Shaikh Salman Shakil Shaikh Sohel Shakil Shaikh	Innovative Mechanism For Stabilizing The Oscillations Of Passive Yaw In Wind Turbines.	College of Engineering Pune	17/06/2021	16/07/2021	202121027003 A, E Reference No- E/12/928/2021 /MUM	College of Engineering Pune
2	German patent No. : 20 2022 100 696.2	Published	G. V. Lakhekar, G. M. Malwatkar, V. V. Jogdand, D. R. Shende	An analog emulator system for temperature control of heat exchanger	College of Engineering Pune	17/02/2022	31/03/2022	—	College of Engineering Pune
3	No. 2022210401 28 A	Published	Akanksha A. Somani, Dr. RAjendra D. Kokate, Dr. Abhilasha Mishra, Mr. Rajesh K	Method and system for FPGA Based tool conditioning using SOM-HEBB classifier in Manufacturing Industry	College of Engineering Pune	13/07/2022	29/07/2022	—	College of Engineering Pune
4	No. 2022210654 49 A	Published	Mr Dayanand B. Jadhav, Dr. Rajendra D. Kokate, Mrs. Nandini D. Jadhav	Development of Nano-sensing green element for hybrid vehicle application	College of Engineering Pune	15/11/2022	25/11/2022	—	College of Engineering Pune

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5	Application No. TEMP/E-1/47966/2019-MUM	Published	Rutuj Wankhade, M.N. Shaikh, B B Ahuja	Angular Mating Spur Gear	College of Engineering Pune	07/11/2019	14/05/2021	—	College of Engineering Pune
6	Application No. 20214 1042374	Published	Vijay M. Khadse	Image Processing Based Cost Effective The Municipal Parking Management System	College of Engineering Pune	19/09/2021	01/10/2021	—	College of Engineering Pune
7	Application No. 2019210 27975	Published	K.K.Tripathi, Kaksahab D Waghmare, Tanveer Bagwan	Image Processing Based Cost Effective The Municipal Parking Management System	College of Engineering Pune	12/07/2019	15/01/2021	—	College of Engineering Pune
8	202121 016466	Published	Shyamal Virnodkar, Vinod Pachghare	A System for Water Stress Identification In Crops And Method Thereof	College of Engineering Pune	07/04/2021	28/05/2021	—	College of Engineering Pune
9	20202 1052979	Published	Kamlesh Chandravanshi ; Dr. Durgesh Kumar Mishra	A System and Method for Secure and Competent Energy Aware Routing in Spontaneous Wireless Sensor Network	College of Engineering Pune	04/12/2020	12/02/2021	—	College of Engineering Pune

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2021- Patents Granted									
1	Application No. 409/MUM/2013	Granted	Dr. S. N. Sapali, Dr. Sandeep Kale	Unidirectional Wind Turbine	College of Engineering Pune	12/02/2013	29/09/2021	Granted Patent No. 378209	College of Engineering Pune
2	Application No. : 2212/MUM/2014	Granted	Dr S. S. Ohol; Banerjee Siddharth Sudhir; Kulkarni Shreyas Bhalchandra; Junghare Sarang Sahebrao	An Arrangement To Maintain Stability Of A Body Mounted On A Rocker-Bogie Mechanism	College of Engineering Pune	07/07/2014	19/03/2021	Granted Patent No. : 362205	College of Engineering Pune
3	Application No: 2021100238	Granted	Dr Girish Lakhekar, Dr L M waghmare, Dr Dipali Shende	Adaptive Spatial Trajectory Tracking Control for Autonomous Underwater Vehicle	College of Engineering Pune		31/03/2021	Granted Patent number: 2021100238	College of Engineering Pune
4	Application No. 2022/01523	Granted	PAWAR Manju Dhanraj, KOKATE, .R. D. DESHMANE, Anil K, Gosavi, Vinodpur Rampuri SABLE, Ganeshi	An Automatic Speech Emotion Recognition System	College of Engineering Pune	03/02/2022	25/05/2022		College of Engineering Pune

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5	Application No.20211058714	Granted	Abhishek Bhatt	Multimode Image Fusion Technique for Automated Correlation Identification in Medical Images	College of Engineering Pune		03/11/2021	Granted Patent number:2021105871	College of Engineering Pune
6	2022/06580	Granted	Vibha Vyas	A Convolutional Neural Network-Based Method and System for Associating Face and Facial Components	College of Engineering Pune	04/08/2021	20/04/2022	2021104946	College of Engineering Pune
7		Granted	Mukul Sutaone, Rajendra Patil	Optimal Resource allocation in Next-Generation Heterogeneous Mobile Network	College of Engineering Pune	24/08/2021	24/11/2021	Patent number: 2021107065	College of Engineering Pune
8	Application No. 201621007499	Granted	Dr. Parag Sadgir Priyanand Agale	Self-Purification Based Polluted Water Purification	College of Engineering Pune	03/03/2016	28/04/2021	Granted Patent No. 365518	College of Engineering Pune
9	2212/MUM/2014	Granted	Banerjee Siddhartha Sudhir, Kulkarni Shreyas B., Jungare sarang S., Shirude Abhijit Rajendra, Sapkal Ashok, Ohol S S	An Arrangement to Maintain Stability of a body Mounted on a Rocker Bogie Mechanism	College of Engineering Pune	15/01/2016	19/03/2021	Granted Patent No.:362205	College of Engineering Pune

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10	Application No: 3781/MUM/2013	Granted	Dr. B.B.Ahuja, Mr. S. R. Bahulikar	Variable Speed Drive System with Ball Cluster	College of Engineering Pune	20/12/2013	05/02/2021	Granted Patent No. :357923	College of Engineering Pune
11	Application No: 1464/MUM/2015	Granted	Mayur Sanas, Dr. B.B.Ahuja, Dr. Arati Mulay	An Orthopaedic Plaster Splint	College of Engineering Pune	08/04/2015	30/04/2021	Granted Patent No. 365828	College of Engineering Pune
12	3621/MUM/2012	Granted	B. N. Chaudhari, R. T. Ugale and S. Baka	Hybrid excited rotor structures for line start permanent	College of Engineering Pune	15/02/2013	11/08/2021	Granted Patent No. :374267	College of Engineering Pune
13	--	Granted	Rupali Chopade, Vinod Pachghare	A Sorted String Table Based Data Recovery Technique for Cassandra	College of Engineering Pune	12/08/2021	24/11/2021	Patent number: 2021105374	College of Engineering Pune
14	--	Granted	Shyamal Satish Virnodkar, Vinod Pachghare	A System for Water Stress Identification In Crops And Method There Of	College of Engineering Pune	22/06/2021	28/07/2021	Patent number: 2021103519	College of Engineering Pune
15	--	Granted	D N Sonawane, Jayant Pawar, Kiran Diwate, Geeta Karande, S. Awachkar D K Agrawal	Disinfecting and Sterilizing Tray	College of Engineering Pune	10/12/2020	10/11/2021	Design No. 336098-001	College of Engineering Pune

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16	--	Granted	D N Sonawane, Jayant Pawar, Kiran Diwate, Geeta Karande, Swapnil Awachkar, D K Agrawal	Disinfecting and Sterilizing Chamber	College of Engineering Pune	10/12/2020	22/11/2021	Design No. 336097-001	College of Engineering Pune

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Ministry of Commerce & Industry,
Government of India

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 INTELLECTUAL PROPERTY INDIA
INTELLECTUAL PROPERTY RIGHTS AND INNOVATION (<http://ipindia.nic.in/index.htm>)

Application Details	
APPLICATION NUMBER	202221040128
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/07/2022
APPLICANT NAME	1 . AKANKSHA A. SOMANI (Assistant Professor) 2 . DR. RAJENDRA D. KOKATE (Professor) 3 . DR. ABHILASHA MISHRA (Associate Professor) 4 . MR. RAJESH K (IT Department)
TITLE OF INVENTION	METHOD AND SYSTEM FOR FPGA BASED TOOL CONDITION MONITORING USING SOM-HEBB CLASSIFIER IN MANUFACTURING INDUSTRY
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	ssapatents@gmail.com
ADDITIONAL-EMAIL (As Per Record)	asomani20@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/07/2022

Application Status	
APPLICATION STATUS	Awaiting Request for Examination

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<https://ipindia.nic.in/PatentSearch/PatentSearch/ViewApplicationStatus> 1/2

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(12) PATENT APPLICATION PUBLICATION	(21) Application No.201921045241 A
(19) INDEA	
(22) Date of filing of Application :07/11/2019	(43) Publication Date : 14/05/2021
(54) Title of the invention : ANGULAR MATING SPUR GEAR	
(51) International classification	(71)Name of Applicant :
F16H0048110000, F16H0048100000, A43C0017020000, B23F0021280000, F16K0011074000	1)COLLEGE OF ENGINEERING Address of Applicant :WELLESLEY RD., SHIVAJINAGAR, PUNE 411005, MAHARASHTRA, INDIA Maharashtra India
(31) Priority Document No	(72)Name of Inventor :
(32) Priority Date	1)RUTUJ MOHAN WANKHADE
(33) Name of priority country	2)ABHITA ABHAY JOGLEKAR
(86) International Application No	3)MOHEMMED SULEMAN SHAIKH
Filing Date	4)BHARATKUMAR BHAGATRAJ AIBUJA
(87) International Publication No	
(61) Patent of Addition to Application Number	
Filing Date	
(62) Divisional to Application Number	
Filing Date	

(57) Abstract :
 ABSTRACT AN ANGULAR MATING SPUR GEAR An angular mating spur gear (AMSG) comprising a base radial component and teeth extending from the base radial component, each of said teeth being formed by defining a prior artTMs spur gear toothTMs involute profile, configuring a first point (P1-L), on a first lateral side of a tooth of a gear, a second point (P2-L), on a second lateral side of the tooth of the gear, configuring a secant (10), passing through said configured first point (P1-L) and said configured second point (P2-L), said secant (10) forming an axis of rotation about which said involute profile of said tooth is rotated (angularly displaced), thereby, forming a new inventive tooth, with a new profile, on the gearTMs circumferential edge. [Figure 1]



No. of Pages : 24 No. of Claims : 13

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Application Details	
APPLICATION NUMBER	20214104214
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/05/2021
APPLICANT NAME	1. Yashwanth 2. Dr. Premnand Prakash Shastri, Maharashtra Institute of Technology 3. Mr. Manish B. Shastrikar, Pune Institute of Computer Technology 4. Mrs. Mayura K. Shastri, Biological Academy of Engineering 5. Dr. Debalakra Beem, Pimpri Chinchwad Energy University 6. Mr. Rahul Subhash Shastri 7. Dr. Subhraj Shastri Wajantanda, Maharashtra Institute of Technology 8. Mr. Vijay M. Shastri, College of Engineering Pune 9. Mr. Rahul Shauna Shastri, Maharashtra Institute of Technology
TITLE OF INVENTION	IMAGE PROCESSING BASED COST EFFECTIVE THE MUNICIPAL WASTE MANAGEMENT SYSTEM
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	yashwanth@gmail.com
ADDITIONAL E-MAIL (As Per Record)	
E-MAIL (UPDATED-Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (As Per IPR)	05/10/2021
Verification Status	

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Application Details

APPLICATION NUMBER	2019/162715
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/01/2019
APPLICANT NAME	COLLEGE OF ENGINEERING
TITLE OF INVENTION	IN-SITU TORSIONAL DIRECT SHEAR TEST DEVICE
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	ching@inipat.com
ADDITIONAL E-MAIL (As Per Record)	ching@inipat.com
E-MAIL (UPDATED-Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/04/2021
PUBLICATION DATE (UPD 11A)	19/04/2021
REPLY TO FEE DATE	08/05/2021

Application Status

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(<http://ipr.india.nirf.in/index.html>)

Application Details	
APPLICATION NUMBER	202121019400
APPLICATION TYPE	ORIGINAL APPLICATION
DATE OF FILING	07/04/2021
APPLICANT NAME	1. Mrs. Shyamal Satish Menonkar 2. Dr. Vinod Padghare 3. Mrs. Sangita Patel 4. Dr. V. C. Patel 5. Mr. Sunil Kumar Jha 6. Mrs. Kavita Deepanshi Bhatia 7. Mrs. Musali Anil Desai
TITLE OF INVENTION	A SYSTEM FOR WATER STRESS IDENTIFICATION IN CROPS AND METHOD THEREOF
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail@india.ipr.com
ADDITIONAL E-MAIL (As Per Record)	mail@india.ipr.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (SUS-11A)	28/05/2021

LIST OF PATENTS PUBLISHED AND GRANTED IN 2021 FOR NIRF

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Application Details	
APPLICATION NUMBER	2019/010178
APPLICATION TYPE	Ordinary Application
DATE OF ISSUE	04/12/2021
APPLICANT NAME	1 . Kamlesh Chandravarshi 2 . Dr. Gungesh Kumar Mishra
TITLE OF INVENTION	A SYSTEM AND METHOD FOR SECURE AND COMPETENT ENERGY ASSESS (ACTIVE) IN DISTRIBUTION NETWORKS (POWER NETWORKS)
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	kamlesh@tme.com
ADDITIONAL E-MAIL (As Per Record)	kamlesh2019@gmail.com
E-MAIL (UPLOADED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (As Per Record)	12/03/2021

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PATENT REGISTER SHEET

REPUBLIC OF SOUTH AFRICA		REGISTER OF PATENTS		PATENTS ACT, 1978	
Official application No	Lodging date: Provisional	Acceptance date			
21 01 2022/01523	23	47 2022/03/14			
International classification	Lodging date: Complete	Classified date			
M. 0101	21 2022/02/03	2022/02/03			
F1 (Full name(s) of applicant(s)/Patentee(s)) PIRAKA, Manoj Chhang MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD, SATANA, PARSHUR, BEED BY PASS, AURANGABAD, MAHARASHTRA, 431010, India KOKOTE, R. D. COLLEGE OF ENGINEERING COEP, PUNE, MAHARASHTRA, 411005, India SHIMBHE, SURE JPM'S BHADRAT INSTITUTE OF TECHNOLOGY, BARDOLI, DIST SOLAPUR, MAHARASHTRA, 410611, India GOSAVI, Vinayak Ramraj MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD, SATANA, PARSHUR, BEED BY PASS, AURANGABAD, MAHARASHTRA, 431010, India SHREY, Ganesh MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD, SATANA, PARSHUR, BEED BY PASS, AURANGABAD, MAHARASHTRA, 431010, India					
F1 Applicant sub-class		Date registered			
F1 Assignee(s)		Date registered			
F2 (Full name(s) of inventor(s)) PIRAKA, Manoj Chhang Priority claimant: Country Number Date					
M. Title of invention AN AUTOMATIC SPEECH EMOTION RECOGNITION SYSTEM					
Address of applicant(s) (inventor(s)) MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD, SATANA, PARSHUR, BEED BY PASS, AURANGABAD, MAHARASHTRA, 431010, India PIRAKA, Manoj Chhang COLLEGE OF ENGINEERING COEP, PUNE, MAHARASHTRA, 411005, India SHIMBHE, SURE JPM'S BHADRAT INSTITUTE OF TECHNOLOGY, BARDOLI, DIST SOLAPUR, MAHARASHTRA, 410611, India GOSAVI, Vinayak Ramraj MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD, SATANA, PARSHUR, BEED BY PASS, AURANGABAD, MAHARASHTRA, 431010, India SHREY, Ganesh MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD, SATANA, PARSHUR, BEED BY PASS, AURANGABAD, MAHARASHTRA, 431010, India					
F3 Address for service Wilmarans and Susan Inc. 337 Sunny Avenue, Randburg, 2194 SOUTH AFRICA					
Reference file An: Number of addition No Date of any change Fresh application based on Date of any change					

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RENEWAL SHEET

Year	Payment Date	Receipt Number	Amount

HISTORY SHEET

Date entry made	Description
2022-02-04	Request for the acceptance of a Patent electronically filed on 3/2/2022, numbered 2022/01523
2022-02-04	Proof reading performed automatically
2022-02-22	Application accepted on 14/2/2022
2022-02-26	Patent advertised on 23-02-2022
2022-02-26	Patent granted on 25-02-2022



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The image shows a certificate of grant for an innovation patent. It features the Australian Government logo and the text 'CERTIFICATE OF GRANT INNOVATION PATENT'. The patent number is 2021 104948. The Commissioner of Patents has granted the patent on 28 April 2022, and certifies that the claims have been registered in the Register of Patents. The name and address of the patentee is Rupal Sandhu, Vice-Chancellor of Dr. Vishwanath Karal MIT World Peace University, S. No. 104, Paud Road Kothrud Pune 411008 India. The title of the invention is 'A CONVOLUTIONAL NEURAL NETWORK-BASED METHOD AND SYSTEM FOR ASSOCIATING FACE AND FACIAL COMPONENTS'. The name of the inventor(s) is Rupal Sandhu, Vithalrao Anand, Akash Chavhan, Siddhant, Mahul, Vaidhan Murad, Muskan and Nishi Shrivastava, Sujash Chandra. The term of the patent is eight years from 4 August 2021. A note at the bottom states that the patent cannot be enforced until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued.


Australian Government
IP Australia

CERTIFICATE OF GRANT
INNOVATION PATENT

Patent number: 2021 104948

The Commissioner of Patents has granted the above patent on 28 April 2022, and certifies that the claims defined below have been registered in the Register of Patents.

Name and address of patentee(s):
Rupal Sandhu, Vice-Chancellor of Dr. Vishwanath Karal MIT World Peace University, S. No. 104, Paud Road Kothrud Pune 411008 India
Dr. Vishwanath Karal MIT World Peace University of S. No. 104 Paud Road Kothrud Pune Maharashtra 411008 India
College of Engineering Pune of Wadgaon Rd, Shreeganga Pune-411 005, Maharashtra, India

Title of invention:
A CONVOLUTIONAL NEURAL NETWORK-BASED METHOD AND SYSTEM FOR ASSOCIATING FACE AND FACIAL COMPONENTS

Name of inventor(s):
Rupal Sandhu, Vithalrao Anand, Akash Chavhan, Siddhant, Mahul, Vaidhan Murad, Muskan and Nishi Shrivastava, Sujash Chandra

Term of Patent:
Eight years from 4 August 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. (See sections 136(1A) and 136A of the Patents Act 1990, set out on the reverse of this document.)

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Application Details	
APPLICATION NUMBER	2019101011
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	2019/04/24
APPLICANT NAME	1. COLLEGE OF ENGINEERING, PUNE 2. SANGHVI INSTITUTE OF TECHNOLOGY 3. PUNE 4. (PUNJABI) INDIAN ENGINEERING
TITLE OF INVENTION	AN APPARATUS FOR MONITORING STABILITY OF A BUILT STRUCTURE AN APPARATUS FOR MONITORING
FIELD OF INVENTION	MECHANICAL ENGINEERING
CLASS. NO. IN THE FIELDS	G06G 01/00
ADDITIONAL CLASS. NO. IN THE FIELDS	G06G 01/00
CLASS. EXPANDED CODES	
PRIORITY DATE	
REQUEST FOR PUBLICATION DATE	2019/04/24
PUBLICATION DATE (IPC CLASS)	2021/01/06
POST PUBLICATION AMEND DATE	2021/01/06
DATE OF CERTIFICATE ISSUE	2021/01/06
POST GRANT JUDICIAL DATE	2021/01/06
GRANT TO THE DATE	2021/01/06
Application Status	
<p>2019101011</p> <p>2019101011</p>	
APPLICATION TYPE	Granted Application, Patent Number :20210101

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Application Details	
APPLICATION NUMBER	3781/MUM/2013
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/12/2013
APPLICANT NAME	COLLEGE OF ENGINEERING, PUNE (CEEP)
TITLE OF INVENTION	VARIABLE SPEED DRIVE SYSTEM WITH BALL BEARING
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	deewan@indewar.com
ADDITIONAL E-MAIL (As Per Record)	deewan@indewar.com
E-MAIL (UPDATED-Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/12/2013
PUBLICATION DATE (AS 11A)	29/12/2013
FIRST EXAMINATION REPORT DATE	12/07/2018
Date Of Certificate Issue	05/02/2023
POST GRANT JOURNAL DATE	12/02/2023
REPLY TO FER DATE	12/01/2019

Application Status	
APPLICATION STATUS	Granted Application, Patent Number :357923

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Ministry of Commerce & Industry,
Government of India



Application Details	
APPLICATION NUMBER	1464/MUM/2015
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/04/2015
APPLICANT NAME	COLLEGE OF ENGINEERING, PUNE
TITLE OF INVENTION	AN ORTHOPAEDIC PLASTER-SPLINT
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL E-MAIL (As Per Record)	chrag@nikodee.com
E-MAIL UPDATED Online	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	23/07/2016
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