



Summary

Year	Applied	Published	Granted
Jan 2020 – Dec 2020	3	6	5

List of Patents Filed in Jan-Dec 2020

Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1	Mr. Yogesh Kamble, Dr. B. Rajeev, Dr. P.D. Pantawane, Prof. B.B. Ahuja	Manufacturing Engineering & Industrial Management	Design and Development of Slotted Center Drilling Tool for Friction Drilling Process	202021040960 Dated: Sept 22, 2020	--	Applied
2	Mr. Swapnil A. Bukshete, Dr. Sandeep Anasane, Prof. B.B. Ahuja, Dr. Nikhil Panse,	Manufacturing engineering And Industrial management	Hand Rehabilitation Device	Application No.20201038770, Date: September 8, 2020	--	Applied
3	Mr. Pratik Waghmare, Dr. B Rajiv and Prof. B.B. Ahuja	Manufacturing Engineering & Industrial Management	Method and Device for Proceeding Based Asset Safety and Actuation with Device Smartphone-Unique pairing.	Application No. 202021055455, Date:Dec.21, 2020	--	Applied



List of Patents Published in Jan-Dec 2020

Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1	Dr. C. Y. Patil, Mr. Y. G. Adhav	Instrumentation & Control Engineering	MEMS Sensor for Real Time Measurement of Specific Gravity and State of Charge of Lead Acid Battery	Application No: 201821037211 Date: October 2, 2018	10/04/2020	Published
2	Prof. N.B. Dhokey, Jay Runwal, Revati Ambekar	Metallurgy & material Science	A Mechanical Grinding System And Process Of Surface Modification Of Irregular Shaped Powders	201921003487 Dated: January 29, 2019	31/07/2020	Published
3.	Dr. Sandeep Anasane, Dr. B. B. Ahuja, Juilee Deshpande, Gandali Kelkar, Aaman Nadaf, Mayur Sanas, Dr. Arati V. Mulay, Dr.Prakash Bhawe	Manufacturing Engineering & Industrial Management	X-Ray Diagnostic Device	Application No: 201821011503 Date : March 28, 2018	19/06/2020	Published
4	M.R.Nandgaonkar Apte A A ,Shaikh Hamdaan Asif Kadam V G , Shinde G G Kothawade PP,Pawar GR	Mechanical Engineering	An Intake System For A Turbocharged Engine	Application No. 201921010780 A Date: March 20, 2019	25/09/2020	Published
5	Mrs.S.H. Deshpande, Dr. Jayant A. Kher, Shirish N. Phadtare, M. H. Tadpatrikar, Mrs.Nandini V. Iyer, Dr. M.Y. Khaladkar, Dr. Ganesh L. Agawane,	Applied Science	Process for synthesis of diesel oil by catalytic pyrolysis of thermo softening plastic waste	Application No. 202021023096 A Date: June 04, 2020	03/07/2020	Published
6	Dr. M. P. Khond, Mr. Milind Vasekar, Vivekanand Naikwadi	Mechanical Engineering	Design & Development of Compact Temp Indicator devicing disc pads in Modern vehicles	Application No. 202021039875 Date: September 15, 2020	06/11/2020	Published




List of Patent Granted in Jan-Dec 2020


Sr. No.	Faculty / Students	Department	Title	Application No. & Date	Date of Publication	Status
1	Dr. B.B.Ahuja Mr. S.M. Patil Mr. A. P.Patil	Production Engineering	Variable Loading Wear and Friction Monitor (VLWAFM) Pin-on-disc Sliding Tribometer	No.: 1521/MUM/2012 Date: May 18, 2012	30/11/2012	Granted Patent No :331165 Date: February 4, 2020
2	Prof.G.V. Parishwad and H.U. Tiwari	Mechanical Engineering	An Instant Potable and Compact Cooling System working on Multiple Heat Sources	No.: 768/MUM/2012 Date: March 22, 2012	27/12/2013	Granted Patent No. 335788 Date: April 22, 2020
3	Dayaram Sonawane , Seattle , WA (US) ; Manan Pathak , Seattle , WA (US) ; Venkat Subramanian , Seattle , WA (US) ; Matthew Lawder , St. Louis , MO (US	Instrumentation	Battery Models , Systems , And Methods Using Robust Fail - Safe Iteration Free Approach For Solving Differential Algebraic Equations	Appl . No .: 15 / 745,984 PCT Filed : Jul . 20 , 2016 (86) PCT No .: PCT / US2016 / 043188	26/1/2017	Granted Patent US 10,769,236 B2 Date: September 9, 2020
4	Dr. B.B.Ahuja , Mr. Sudhir Madhav Patil Mr. Sachin Hiraji Mhatre	Production Engineering	Variable Loading Pin-On-Plate Reciprocating Sliding Tribometer [VLPOPRST]	No.: 84/MUM/2013 Date: January 10, 2013	17/10/2014	Granted Patent No :347732 Date: September 25, 2020
5	Charthal Jayesh Suresh, Chandarana Saurabha, Munot Hema Kishore	Civil Engineering	Process for Preparation of Geopolymer-Composite Articles	Application No: 1957/MUM/2014, Date: June 17, 2014	18/12/2015	Granted Patent No. :352755 Date: December 1, 2020



Proof for Patent Applied-3




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Ministry of Commerce & Industry,
Government of India



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Application Status

APPLICATION STATUS	Awaiting Complete Specification
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graph LR; A[ ] --> B[Filed]; B --> C[Published]; C --> D[RQ Filed]; D --> E[Under Examination]; E --> F[Disposed];
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सत्यमेव जयते

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



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GEOGRAPHICAL INDICATIONS

Application Status	
APPLICATION STATUS	Awaiting Complete Specification



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graph LR; A[ ] --> B[Filed]; B --> C[Published]; C --> D[RQ Filed]; D --> E[Under Examination]; E --> F[Disposed];
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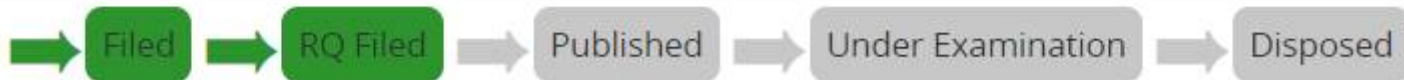
Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Status

APPLICATION STATUS

Application not yet published



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते



Application Status

APPLICATION STATUS

Application not yet published



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in



Estd-1854



सत्यमेव जयते

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	201821037211
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/10/2018
APPLICANT NAME	COLLEGE OF ENGINEERING, PUNE
TITLE OF INVENTION	A LEAD ACID BATTERY CHARGE MONITORING SYSTEM
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	chirag@inkidee.com
ADDITIONAL-EMAIL (As Per Record)	chirag@inkidee.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	10/04/2020



Estd-1854



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



Application Details

APPLICATION NUMBER	201921003487
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/01/2019
APPLICANT NAME	1 . N.B.DHOKEY 2 . JAY RUNWAL 3 . REVATI AMBEKAR
TITLE OF INVENTION	A MECHANICAL GRINDING SYSTEM AND PROCESS OF SURFACE MODIFICATION OF IRREGULAR SHAPED POWDERS
FIELD OF INVENTION	TEXTILE
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	nbdhokey@yahoo.co.in
E-MAIL (UPDATED Online)	chirag@inkidee.com
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	25/12/2020
PUBLICATION DATE (U/S 11A)	31/07/2020



Estd-1854

College of Engineering Pune

Forerunners in Technical Education




सत्यमेव जयते

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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India




Application Details	
APPLICATION NUMBER	201821011503
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/03/2018
APPLICANT NAME	COLLEGE OF ENGINEERING, PUNE
TITLE OF INVENTION	AN ASSISTIVE MECHANISM FOR X-RAY IMAGE ENHANCEMENT
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	chirag@inkiee.com
ADDITIONAL-EMAIL (As Per Record)	chirag@inkidee.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	20/05/2019
PUBLICATION DATE (U/S 11A)	19/06/2020





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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	201921045241
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/11/2019
APPLICANT NAME	COLLEGE OF ENGINEERING
TITLE OF INVENTION	ANGULAR MATING SPUR GEAR
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	chirag@inkidee.com
ADDITIONAL-EMAIL (As Per Record)	chirag@inkidee.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	19/01/2021
PUBLICATION DATE (U/S 11A)	14/05/2021
REPLY TO FER DATE	21/12/2021

Application Status	
APPLICATION STATUS	Reply Filed. Application in amended examination


View Documents




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graph LR
    A[Filed] --> B[RQ Filed]
    B --> C[Published]
    C --> D[Under Examination]
    D --> E[Disposed]
  
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GEOGRAPHICAL INDICATIONS

Application Details	
APPLICATION NUMBER	202021023096
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/06/2020
APPLICANT NAME	1 . Sangeeta Hanumant Deshpande 2 . Jayant Ambadas Kher 3 . Shirish Alias Ratnakar Nilkanth Phadatare 4 . Medha Hari Tadpatrikar 5 . Nandini Venkat Iyer 6 . Manisha Yogesh Khaladkar 7 . Ganesh Labhas Agawane 8 . Kaustubh Vyankatesh Ghamande
TITLE OF INVENTION	PROCESS FOR SYNTHESIS OF DIESEL OIL BY CATALYTIC PYROLYSIS OF THERMO SOFTENING PLASTIC WASTES
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	infobl100@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sjgawande@gmail.com
E-MAIL (UPDATED Online)	ashutosh@bliconsultancy.co.in
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	11/06/2020
PUBLICATION DATE (U/S 11A)	03/07/2020
REPLY TO FER DATE	11/11/2021

Application Status	
APPLICATION STATUS	Reply Filed. Application in amended examination

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graph LR
    A[Filed] --> B[RQ Filed]
    B --> C[Published]
    C --> D[Under Examination]
    D --> E[Disposed]
            
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Application Details


APPLICATION NUMBER	202021039875
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/09/2020
APPLICANT NAME	1 . MILIND KAWADU WASEKAR 2 . Dr.Mohan Pandurang Khond 3 . Vivekanand Arun naikwadi
TITLE OF INVENTION	DESIGN AND DEVELOPMENT COMPACT TEMPERATURE INDICATOR DEVICE IN DISK PADS IN MODERN VEHICLES.
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	naikwadivivek@gmail.com
ADDITIONAL-EMAIL (As Per Record)	naikwadivivek@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	15/09/2020
PUBLICATION DATE (U/S 11A)	06/11/2020

Application Status


			View Documents
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THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)


क्रमांक : 022108325
SL No :



पेटेंट सं. / Patent No.	:	335788
आवेदन सं. / Application No.	:	768/MUM/2012
प्रदत्त करने की तारीख / Date of Filing	:	22/03/2012
पेटेंटी / Patentee	:	1.PROF. DR. GAJANAN V. PARISHWAD 2.MR. HARISH TIWARI


प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में सथाप्रकृतित "AN INSTANT, PORTABLE AND COMPACT COOLING SYSTEM WORKING ON MULTIPLE HEAT SOURCES" नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 22nd day of March 2012 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled "AN INSTANT, PORTABLE AND COMPACT COOLING SYSTEM WORKING ON MULTIPLE HEAT SOURCES" as disclosed in the above mentioned application for the term of 20 years from the 22nd day of March 2012 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 22/04/2020
Date of Grant :

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पेटेंट नियंत्रक
Controller of Patent


टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखना है, 22nd day of March 2014को और उसके पचास प्रत्येक वर्ष में उसी दिन रखा होगी।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 22nd day of March 2014 and on the same day in every year thereafter.



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THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)


क्रमांक : 022107588
SL No :



पेटेंट सं. / Patent No.	:	331165
आवेदन सं. / Application No.	:	1521/MUM/2012
फाइल करने की तारीख / Date of Filing	:	18/05/2012
पेटेटी / Patentee	:	COLLEGE OF ENGINEERING, PUNE


प्रमाणित किया जाता है कि पेटेटी को उपरोक्त आवेदन में बयांस्कृत VARIABLE LOADING WEAR AND FRICTION MONITOR (VLWAFM) PIN-ON-DISK SLIDING TRIBOMETER नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 18th day of May 2012 से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled VARIABLE LOADING WEAR AND FRICTION MONITOR (VLWAFM) PIN-ON-DISK SLIDING TRIBOMETER as disclosed in the above mentioned application for the term of 20 years from the 18th day of May 2012 in accordance with the provisions of the Patents Act,1970.



Date of Grant 04/02/2020

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Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा गया है, 18th day of May 2014 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 18th day of May 2014 and on the same day in every year thereafter.



US010769236B2

(12) **United States Patent**
Sonawane et al.

(10) **Patent No.:** **US 10,769,236 B2**
(45) **Date of Patent:** **Sep. 8, 2020**

- (54) **BATTERY MODELS, SYSTEMS, AND METHODS USING ROBUST FAIL-SAFE ITERATION FREE APPROACH FOR SOLVING DIFFERENTIAL ALGEBRAIC EQUATIONS**
- (71) Applicants: **University of Washington**, Seattle, WA (US); **Washington University**, St. Louis, MO (US)
- (72) Inventors: **Dayaram Sonawane**, Seattle, WA (US); **Manan Pathak**, Seattle, WA (US); **Venkat Subramanian**, Seattle, WA (US); **Matthew Lawder**, St. Louis, MO (US)
- (73) Assignees: **University of Washington**, Seattle, WA (US); **Washington University**, St. Louis, MO (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 309 days.

- (21) Appl. No.: **15/745,984**
- (22) PCT Filed: **Jul. 20, 2016**
- (86) PCT No.: **PCT/US2016/043188**
§ 371 (c)(1),
(2) Date: **Jan. 18, 2018**
- (87) PCT Pub. No.: **WO2017/015396**
PCT Pub. Date: **Jan. 26, 2017**
- (65) **Prior Publication Data**
US 2018/0210861 A1 Jul. 26, 2018

Related U.S. Application Data

- (60) Provisional application No. 62/194,678, filed on Jul. 20, 2015.

- (51) **Int. Cl.**
H02J 7/00 (2006.01)
G06F 17/13 (2006.01)
(Continued)
- (52) **U.S. Cl.**
CPC **G06F 17/13** (2013.01); **G06F 30/20** (2020.01); **H01M 10/44** (2013.01);
(Continued)
- (58) **Field of Classification Search**
CPC H02J 7/0021; H02J 7/0048
(Continued)
- (56) **References Cited**
U.S. PATENT DOCUMENTS
5,420,493 A 5/1995 Hargadon et al.
5,936,385 A * 8/1999 Patillon G01R 31/367 320/136
(Continued)
- FOREIGN PATENT DOCUMENTS**
WO 2017015396 A1 1/2017

OTHER PUBLICATIONS

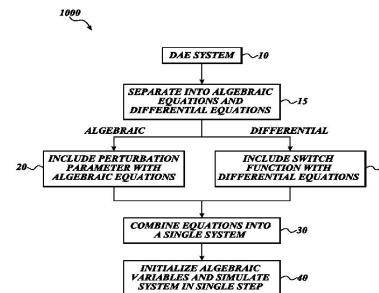
9th IFAC Symposium on Advanced Control of Chemical Processes ADCHEM 2015 Proceedings (B. Huang et al., Ed.) Jun. 7-10, 2015, pp. i-v. Retrieved Oct. 5, 2016 from Google Web at http://www.sciencedirect.com/science?_ob=ArticleListURL&_method=list&ArticleListID=-1062567390&_sort=r&_st=13&view=c&md5=39c9ff9558e82e87c5822eb670c15fc8&searchtype=a. ISSN 2405-8963.

(Continued)

Primary Examiner — Jerry D Robbins
(74) *Attorney, Agent, or Firm* — Christensen O'Connor Johnson Kindness PLLC


(57) **ABSTRACT**

Battery models using robust fail-safe iteration free approach for solving Differential Algebraic Equations, and associated systems and methods are disclosed. In one embodiment, a
(Continued)






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THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

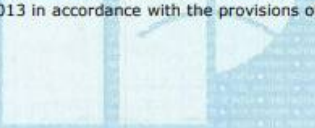
क्रमांक : 022110089
SL No :




पेटेंट सं. / Patent No.	:	347732
आवेदन सं. / Application No.	:	84/MUM/2013
फाइल करने की तारीख / Date of Filing	:	10/01/2013
पेटेंटी / Patentee	:	COLLEGE OF ENGINEERING, PUNE(COEP)

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में बधाप्रस्तुत VARIABLE LOADING PIN-ON-PLATE RECIPROCATING SLIDING TRIBOMETER नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख 10th day of January 2013 से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled VARIABLE LOADING PIN-ON-PLATE RECIPROCATING SLIDING TRIBOMETER as disclosed in the above mentioned application for the term of 20 years from the 10th day of January 2013 in accordance with the provisions of the Patents Act,1970.



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अनुदान की तारीख : 25/08/2020
Date of Grant :

(Signature)
पेटेंट नियंत्रक
Controller of Patent


टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाता है, 10th day of January 2015 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 10th day of January 2015 and on the same day in every year thereafter.



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पेटेंट कार्यालय
THE PATENT OFFICE
पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)


क्रमांक : 022110902
SL No :




पेटेंट सं. / Patent No.	:	352755
आवेदन सं. / Application No.	:	1957/MUM/2014
प्रदत्त करने की तारीख / Date of Filing	:	17/06/2014
पेटेटी / Patentee	:	COLLEGE OF ENGINEERING, PUNE (COEP)

प्रमाणित किया जाता है कि पेटेटी को उपरोक्त आवेदन में यथाप्रकटित PROCESS FOR PREPARATION OF GEOPOLYMER-COMPOSITE ARTICLES नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 17th day of June 2014 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled PROCESS FOR PREPARATION OF GEOPOLYMER-COMPOSITE ARTICLES as disclosed in the above mentioned application for the term of 20 years from the 17th day of June 2014 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 01/12/2020
Date of Grant :



पेटेंट अधिकारी
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, की पूरी रकम रखा जाना है, 17th day of June 2016 को और उसके पश्चात प्रत्येक वर्ष में उन्ही दिन पर होगी।
Note - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 17th day of June 2016 and on the same day in every year thereafter.