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 Department for Promotion of Industry and Internal Trade  
 Ministry of Commerce & Industry,  
 Government of India

(<http://ipindia.nic.in/index.htm>)



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Application Details	
APPLICATION NUMBER	202231012984
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/03/2022
APPLICANT NAME	1 . Dr. Rupam Gupta Roy 2 . Dr. Girish V. Lakhekar 3 . Anurupa Gupta Roy Lodh 4 . Rajakumar B. R 5 . Binu Dennis
TITLE OF INVENTION	SHANK FOOT ORTHOSIS SYSTEM USING SECOND-ORDER SLIDING MODE CONTROLLER
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	royrupamgupta@gmail.com
ADDITIONAL-EMAIL (As Per Record)	rupamguptaroy05@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	06/10/2022
PUBLICATION DATE (U/S 11A)	15/04/2022
REPLY TO FER DATE	24/09/2023

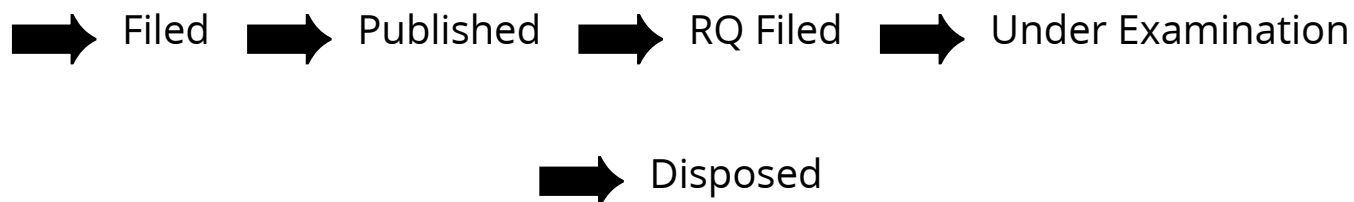
### Application Status

APPLICATION STATUS

# Application Refused U/S 15

Order(s)/Decision(s)

View Documents



In case of any discrepancy in status, kindly contact [ipo-helpdesk@nic.in](mailto:ipo-helpdesk@nic.in)





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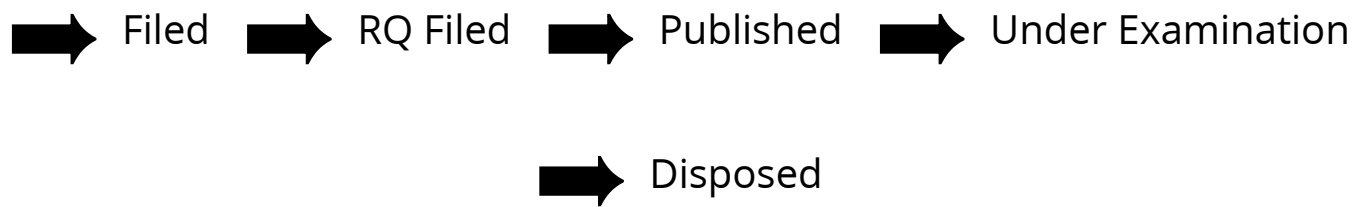
#### Application Details

APPLICATION NUMBER	202321006687	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	02/02/2023	
APPLICANT NAME	COEP TECHNOLOGICAL UNIVERSITY	
TITLE OF INVENTION	A MULTIPLE DEGREES-OF-FREEDOM, TENDON-ACTUATED, ROBOTIC TENTACLE ARM SYSTEM	
FIELD OF INVENTION	ELECTRONICS	
E-MAIL (As Per Record)	chirag@inkidee.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	16/01/2024	
PUBLICATION DATE (U/S 11A)	09/08/2024	

#### Application Status

APPLICATION STATUS	<b>FER Issued, Reply not Filed</b>
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(<http://ipindia.nic.in/index.htm>)

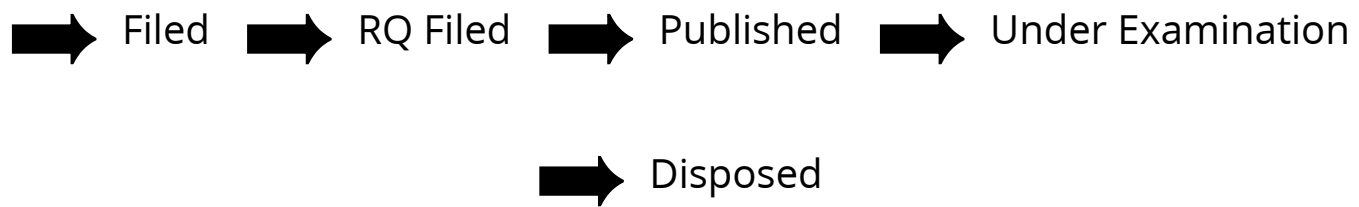
#### Application Details

APPLICATION NUMBER	202321035974	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	24/05/2023	
APPLICANT NAME	COEP TECHNOLOGICAL UNIVERSITY	
TITLE OF INVENTION	PROCESS FOR POST SINTER QUENCHING OF SOLID-STATESYNTHESIZED CALCIA-STABILIZED ZIRCONIA	
FIELD OF INVENTION	METALLURGY	
E-MAIL (As Per Record)	chirag@inkidee.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	08/05/2024	
PUBLICATION DATE (U/S 11A)	29/11/2024	

#### Application Status

APPLICATION STATUS	<b>Application Awaiting Examination</b>
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(<http://ipindia.nic.in/index.htm>)

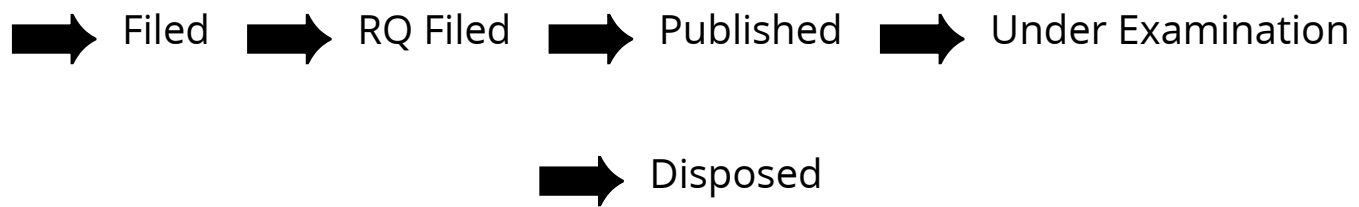
#### Application Details

APPLICATION NUMBER	202321036001	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	24/05/2023	
APPLICANT NAME	COEP TECHNOLOGICAL UNIVERSITY	
TITLE OF INVENTION	PROCESS FOR OPTIMIZATION OF SOLID-STATE SYNTHESIS OF CALCIA-STABILIZED ZIRCONIA POWDERS	
FIELD OF INVENTION	METALLURGY	
E-MAIL (As Per Record)	chirag@inkidee.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	08/05/2024	
PUBLICATION DATE (U/S 11A)	29/11/2024	

#### Application Status

APPLICATION STATUS	<b>Application Awaiting Examination</b>
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(<http://ipindia.nic.in/index.htm>)

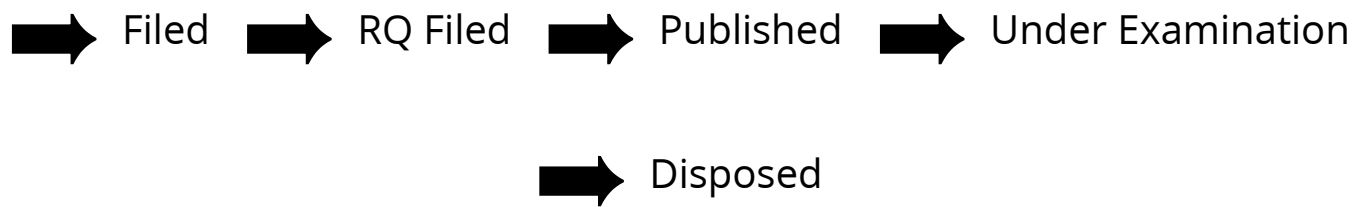
#### Application Details

APPLICATION NUMBER	202321036717	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	27/05/2023	
APPLICANT NAME	COEP TECHNOLOGICAL UNIVERSITY	
TITLE OF INVENTION	SYSTEMS AND METHODS FOR ESTIMATION OF COMPUTATION COMPLEXITY OF ALGORITHMS	
FIELD OF INVENTION	COMPUTER SCIENCE	
E-MAIL (As Per Record)	chirag@inkidee.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	27/05/2024	
PUBLICATION DATE (U/S 11A)	29/11/2024	

#### Application Status

APPLICATION STATUS	<b>FER Issued, Reply not Filed</b>
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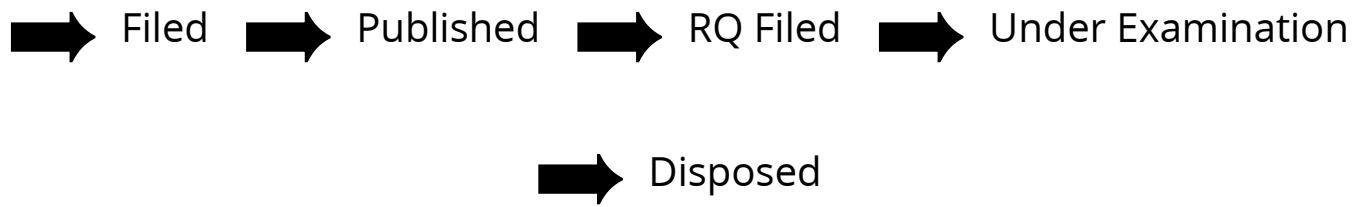
#### Application Details

APPLICATION NUMBER	202321039715	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	09/06/2023	
APPLICANT NAME	1 . VAHIDA ZAKIRHUSEN ATTAR 2 . COLLEGE OF ENGINEERING, PUNE	
TITLE OF INVENTION	SECVISION: A COMPUTER VISION BASED SECURITY SURVEILLANCE SOFTWARE	
FIELD OF INVENTION	COMPUTER SCIENCE	
E-MAIL (As Per Record)	vahida.comp@coeptech.ac.in	
ADDITIONAL-EMAIL (As Per Record)	vahida.comp@coeptech.ac.in	
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	07/01/2024	
PUBLICATION DATE (U/S 11A)	25/08/2023	
REPLY TO FER DATE	03/11/2025	

#### Application Status

APPLICATION STATUS	<b>Reply Filed. Application in amended examination</b>
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(<http://ipindia.nic.in/index.htm>)

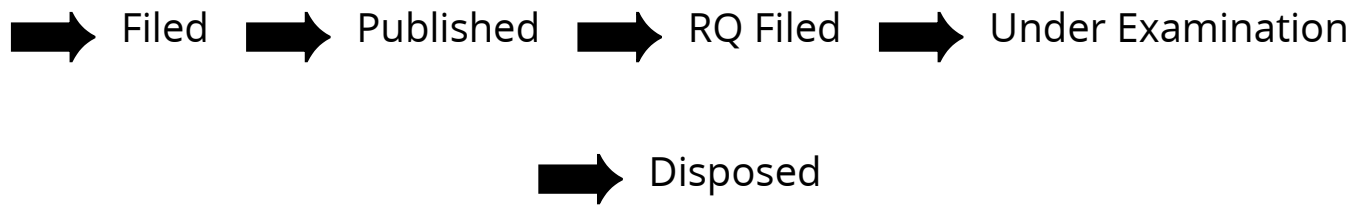
#### Application Details

APPLICATION NUMBER	202341028256	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	18/04/2023	
APPLICANT NAME	<ol style="list-style-type: none"> <li>1 . Mohammed Irshad Ali</li> <li>2 . Rashmi Shrikant Kulkarni</li> <li>3 . Dr. Lalit Abhilashi (Pro-Chancellor)</li> <li>4 . Miss Parinidhi Singh</li> <li>5 . Mr. Pawan Kumar Singh</li> <li>6 . Prof. Dr. B.K.Sarkar</li> </ol>	
TITLE OF INVENTION	Method of a simulated objects in computer animation	
FIELD OF INVENTION	PHYSICS	
E-MAIL (As Per Record)	dr.bksarkar2003@yahoo.in	
ADDITIONAL-EMAIL (As Per Record)	dr.bksarkar2003@gmail.com	
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	--	
PUBLICATION DATE (U/S 11A)	05/05/2023	

#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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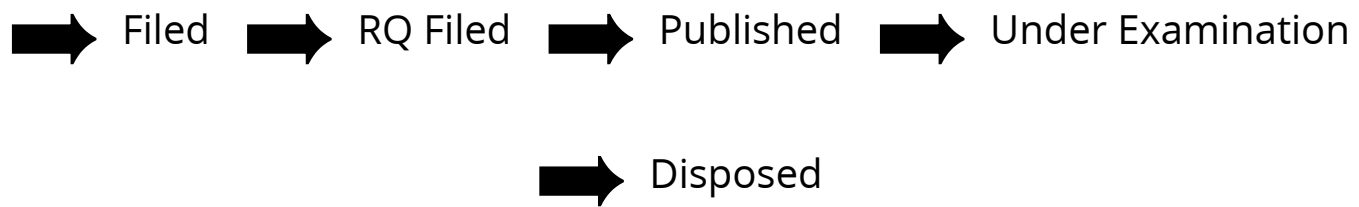
#### Application Details

APPLICATION NUMBER	202421058988	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	05/08/2024	
APPLICANT NAME	VAHIDA ZAKIRHUSEN ATTAR	
TITLE OF INVENTION	CROPWHIZ: GREEN DIAGNOSTIC WIZARD FOR FARMERS	
FIELD OF INVENTION	COMPUTER SCIENCE	
E-MAIL (As Per Record)	sps22.comp@coeptech.ac.in	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	05/08/2024	
PUBLICATION DATE (U/S 11A)	30/08/2024	
REPLY TO FER DATE	12/11/2025	

#### Application Status

APPLICATION STATUS	<b>Reply Filed. Application in amended examination</b>
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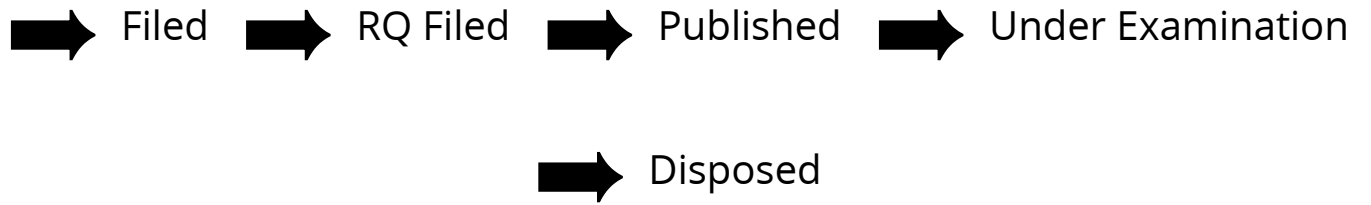
#### Application Details

APPLICATION NUMBER	202421077292	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	11/10/2024	
APPLICANT NAME	<b>VAHIDA ZAKIRHUSEN ATTAR</b>	
TITLE OF INVENTION	AGRI -WEEDVISION: AI INTEGRATED WEB APP FOR PRECISE WEED MANAGEMENT	
FIELD OF INVENTION	COMPUTER SCIENCE	
E-MAIL (As Per Record)	sps22.comp@coeptech.ac.in	
ADDITIONAL-EMAIL (As Per Record)	vahida.comp@coeptech.ac.in	
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	11/10/2024	
PUBLICATION DATE (U/S 11A)	15/11/2024	

#### Application Status

APPLICATION STATUS	<b>FER Issued, Reply not Filed</b>
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# Urkunde

über die Eintragung des  
Gebrauchsmusters Nr. 20 2022 100 696

**Bezeichnung:**

Ein analoges Emulatorsystem für die Temperaturregelung eines  
Wärmetauschers

**IPC:**

G05D 23/19

**Inhaber/Inhaberin:**

Jogdand, Vishakha Vishwanath, Aurangabad, Maharashtra, IN  
Lakhekar, Girish Vithalrao, Pune, Maharashtra, IN  
Malwatkar, Gajanan Madhavrao, Jalgaon, Maharashtra, IN  
Shende, Dipali Rohit, Pune, Maharashtra, IN

**Tag der Anmeldung:**

07.02.2022

**Tag der Eintragung:**

17.02.2022

Die Präsidentin des Deutschen Patent- und Markenamts



Cornelia Rudloff-Schäffer

München, 17.02.2022





क्रम सं/SL No :022129201



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 460111

आवेदन सं. / Application No. 200/MUM/2015

फाइल करने की तारीख / Date of Filing 20/01/2015

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE (COEP) an autonomous institute of Government of Maharashtra

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A POLY PHASE TRANSVERSE FLUX MACHINE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2015 के बीसवें दिन 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 **A POLY PHASE TRANSVERSE FLUX MACHINE** as disclosed in the above mentioned application for the term of 20 years from the 20<sup>th</sup> day of January 2015 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
Controller of Patents

अनुदान की तारीख : 18/10/2023  
Date of Grant :

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2017 के बीसवें दिन 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 20<sup>th</sup> day of January 2017 and on the same day in every year thereafter.



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

457569

आवेदन सं. / Application No.

209/MUM/2014

फाइल करने की तारीख / Date of Filing

21/01/2014

पेटेंटी / Patentee

COLLEGE OF ENGINEERING, PUNE(COEP) AN  
AUTONOMOUS INSTITUTE OF GOVERNMENT OF  
MAHARASHTRA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित **DOUBLE STATOR DOUBLE ROTOR PERMANENT MAGNET SYNCHRONOUS MACHINE WITH CLAW POLE ARRANGEMENT FOR INNER ROTOR** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2014 के इक्कीसवें दिन 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 **DOUBLE STATOR DOUBLE ROTOR PERMANENT MAGNET SYNCHRONOUS MACHINE WITH CLAW POLE ARRANGEMENT FOR INNER ROTOR** as disclosed in the above mentioned application for the term of 20 years from the 21<sup>st</sup> day of January 2014 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

अनुदान की तारीख : 09/10/2023  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patents

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2016 के इक्कीसवें दिन 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 21<sup>st</sup> day of January 2016 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 448968

आवेदन सं. / Application No. 466/MUM/2013

फाइल करने की तारीख / Date of Filing 18/02/2013

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE (COEP)

आविष्कारकों का नाम / Name of Inventor(s) 1.AHUJA BHARATKUMAR BHAGATRAJ 2.AMRUTKAR PURUSHOTTAM MADHUKAR

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित **A SYSTEM FOR HYDRO-DYNAMIC POLISHING** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख फरवरी 2013 के अठारहवें दिन 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 **A SYSTEM FOR HYDRO-DYNAMIC POLISHING** as disclosed in the above mentioned application for the term of 20 years from the 18<sup>th</sup> day of February 2013 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

अनुदान की तारीख / Date of Grant : 01/09/2023 **Controller of Patents**

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, फरवरी 2015 के अठारहवें दिन 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 18<sup>th</sup> day of February 2015 and on the same day in every year thereafter.





**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 445160

आवेदन सं. / Application No. 1465/MUM/2015

फाइल करने की तारीख / Date of Filing 08/04/2015

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **AN AUTOMATED ACUPRESSURE GLOVE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2015 के आठवें दिन 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 AUTOMATED ACUPRESSURE GLOVE** as disclosed in the above mentioned application for the term of 20 years from the 8<sup>th</sup> day of April 2015 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

Controller of Patents

अनुदान की तारीख : 16/08/2023  
Date of Grant :

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2017 के आठवें दिन 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 8<sup>th</sup> day of April 2017 and on the same day in every year thereafter.



**INTELLECTUAL  
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

क्रमांक : 022116341  
SL No :



भारत सरकार  
GOVERNMENT OF INDIA  
पेटेंट कार्यालय  
THE PATENT OFFICE  
पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No. : 386732  
आवेदन सं. / Application No. : 1615/MUM/2015  
फाइल करने की तारीख / Date of Filing : 21/04/2015  
पेटेंटी / Patentee : COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A MUSICAL MUFFLER FOR EXHAUST SYSTEMS नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 21st day of April 2015 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 A MUSICAL MUFFLER FOR EXHAUST SYSTEMS as disclosed in the above mentioned application for the term of 20 years from the 21st day of April 2015 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 18/01/2022  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 21st day of April 2017 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 21st day of April 2017 and on the same day in every year thereafter.



**INTELLECTUAL  
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)

क्रमांक : 022124049  
SL No :



पेटेंट सं. / Patent No. : 429710  
आवेदन सं. / Application No. : 1884/MUM/2012  
फाइल करने की तारीख / Date of Filing : 29/06/2012  
पेटेंटी / Patentee : COLLEGE OF ENGINEERING, PUNE  
आविष्कारक (जहां लागू हो) / Inventor(s) : DHOKEY NARENDRA BABANRAO

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A PROCESS FOR PREPARING IRON PARTICLES COATED WITH MAGNESIUM COMPOUNDS AND COUNTER CURRENT REACTION APPARATUS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2012 के उन्नीसवें दिन 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 A PROCESS FOR PREPARING IRON PARTICLES COATED WITH MAGNESIUM COMPOUNDS AND COUNTER CURRENT REACTION APPARATUS as disclosed in the above mentioned application for the term of 20 years from the 29<sup>th</sup> day of June 2012 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 21/04/2023  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2014 के उन्नीसवें दिन 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 29<sup>th</sup> day of June 2014 and on the same day in every year thereafter.



REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

## CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

**PAWAR, MANJU DHANRAJ;  
KOKATE, R. D., DESHMANE;  
ANIL K, GOSAVI;  
VINODPURI RAMPURI;  
SABLE, GANESH**

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

**2022/01523**

copy of the complete specification is annexed, together with the relevant Form P2.

In testification thereof, the seal of the Patent Office has been affixed at Pretoria with effect

from the 25<sup>th</sup> day of May 2022



  
.....  
Registrar of Patents

REPUBLIC OF SOUTH AFRICA



REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

# CERTIFICATE

accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

**DR. HEMANGI SHINDE; DR. VIBHA VYAS; DR. RAJSHRI CHITTARANJAN AHAJAN; DR. VIDYA NITIN MORE; DR. SHRINIVAS PADMAKAR MAHAJAN; DR. MUKUL SHARAD SUTAONE**

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

**2022/06580**

copy of the complete specification is annexed, together with the relevant Form P2.

In testimony whereof, the seal of the Patent Office has been affixed at Pretoria with effect from the **28<sup>th</sup>** day of **September 2022**



A handwritten signature in black ink, consisting of a stylized 'S' and 'A'.

Registrar of Patents

REPUBLIC OF SOUTH AFRICA  
 PATENTS ACT, 1978  
**APPLICATION FOR A PATENT AND ACKNOWLEDGEMENT OF RECEIPT**  
**[Section 30 (1)-Regulation 22]**

The granting of a patent is hereby requested by the undermentioned applicant on the basis of the present application.

Official Application No.		Applicant's or Agent's Reference
21	01	2691LPS
<b>2022/13807</b>		

71	Full Name(s) of Applicant(s)
DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India BHADADE, Raghunath S. MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India	

54	Title of invention
<b>ARTIFICIAL INTELLIGENCE BASED SMART ANTENNA SYSTEM FOR GREEN COMMUNICATION</b>	

The applicant claims priority as set out on the accompanying Form P.2. The earliest priority claimed is		
COUNTRY:	NUMBER:	DATE:

<del>This application is for a patent of addition to patent application No:</del>		
21	01	

<del>This application is a fresh application in terms of section 37 and based on Application No:</del>		
21	01	

This application is accompanied by:		
-------------------------------------	--	--

X	1.	A single copy of a complete specification of 6 pages.
	2.	Drawings of _____ sheet(s).
X	3.	Publication particulars and abstract(Form P8)
	4.	A copy of a figure of the drawing (if any) for the abstract
X	5.	Assignment of invention
	6.	Certified priority document(s)
	7.	Translation(s) of the priority document(s)
	8.	Assignment of priority rights
	9.	A copy of the Form P.2 and the specification of S.A Patent Application (if applicable).
X	10.	A declaration and power of attorney on Form P3
X	11.	Statement on the use of indigenous Biological Resource, Genetic Resource, Traditional Knowledge or Use on Form P26
X	12.	

74	Address of Service:
Wolmarans and Susan Inc. 337 Surrey Avenue, Randburg, Gauteng, 2194 SOUTH AFRICA	

Dated this 21st day of December 2022

**Digitally signed by : Leon Pierre Susan**

.....  
 Signature of Applicant(s)

This is returned to the applicant's address for service as proof of lodging.

RECEIVED
Official Date Stamp
..... Registrar of Patents

REPUBLIC OF SOUTH AFRICA

REGISTER OF PATENTS

PATENTS ACT, 1978

Official application No.		Lodging date: Provisional		Acceptance date	
21	01	<b>2022/13807</b>		22	
International classification		Lodging date: Complete		Granted date	
51	G06F	23	2022/12/21		
71	Full name(s) of applicant(s)/Patentee(s):				
DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India BHADADE, Raghunath S. MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India					
71	Applicant substituted:			Date registered	
71	Assignee(s):			Date registered	
72	Full name(s) of inventor(s):				
BHADADE, Raghunath S. MAHAJAN, Shrinivas Padmakar ANUSE, Alwin Damodar KUTE, Rupali Sandip PURNAYE, Prasad Purushottam MUNOT, Mousami Vaibhav					
Priority claimed:		Country	Number	Date	
54	Title of invention				
<b>ARTIFICIAL INTELLIGENCE BASED SMART ANTENNA SYSTEM FOR GREEN COMMUNICATION</b>					
Address of applicant(s)/patentee(s):					
DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038 INDIA MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038 INDIA					
74	Address for service				
Wolmarans and Susan Inc. 337 Surrey Avenue, Randburg, Gauteng, 2194 SOUTH AFRICA Reference No. 2691LPS					
61	Patent of addition No.			Date of any change	
Fresh application based on.			Date of any change		

REPUBLIC OF SOUTH AFRICA  
PATENTS ACT, 1978  
**APPLICATION OR REQUEST TO THE REGISTRAR**  
**(REGULATION 39)**

OFFICIAL APPLICATION NO.			AGENT REFERENCE	
21	01	<b>2022/13807</b>	2691LPS	

IN THE NAME OF:	
71	DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY BHADADE, Raghunath S.

In terms of the following section(s) of the Act and/or regulation(s) of the Patent Regulations, the applicant hereby request the following:  Request for expedited acceptance in terms of section 40, regulation 39 and 44.
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Documents, if any, lodged in support of the request:
N/A

ADDRESS FOR SERVICE	
74	Wolmarans and Susan Inc. 337 Surrey Avenue, Randburg, Gauteng, 2194 SOUTH AFRICA

21 December 2022

Digitally signed by : Leon Pierre Susan

\_\_\_\_\_  
Signature of Applicant

FOR OFFICIAL USE ONLY

The above application or request is hereby allowed/refused.

Reasons for refusal of conditions of allowance, if any:

OFFICIAL DATE STAMP
_____ REGISTRAR OF PATENTS

REPUBLIC OF SOUTH AFRICA  
 PATENTS ACT, 1978  
**COMPLETE SPECIFICATION**  
**[Section 30(1) – Regulation 28]**

OFFICIAL APPLICATION NO.

21	01	<b>2022/13807</b>
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LODGING DATE

22	2022/12/21
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INTERNATIONAL CLASSIFICATION

51	G06F
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FULL NAME(S) OF APPLICANT(S)

71	DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India BHADADE, Raghunath S. MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India
----	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

FULL NAME(S) OF INVENTORS(S)

72	1. BHADADE, Raghunath S. 2. MAHAJAN, Shrinivas Padmakar 3. ANUSE, Alwin Damodar 4. KUTE, Rupali Sandip 5. PURNAYE, Prasad Purushottam 6. MUNOT, Mousami Vaibhav
----	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

TITLE OF INVENTION

54	<b>ARTIFICIAL INTELLIGENCE BASED SMART ANTENNA SYSTEM FOR GREEN COMMUNICATION</b>
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REPUBLIC OF SOUTH AFRICA  
PATENTS ACT, 1978  
**PUBLICATION PARTICULARS AND ABSTRACT**  
[Section 32(3)(a) – Regulation 2291(g) AND 31]

OFFICIAL APPLICATION NO.		LODGING DATE	ACCEPTANCE DATE
21	01	22	2022/12/21
<b>2022/13807</b>			47

INTERNATIONAL CLASSIFICATION	NOT FOR PUBLICATION
51	G06F
	CLASSIFIED BY: Wolmarans and Susan Inc.

FULL NAME(S) OF APPLICANT(S)	
71	DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY DR.VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India BHADADE, Raghunath S. MIT WORLD PEACE UNIVERSITY S.NO.124, PAUD ROAD, KOTHRUD, PUNE, MAHARASHTRA, 411038, India

FULL NAME(S) OF INVENTORS(S)	
72	<ol style="list-style-type: none"> <li>1. BHADADE, Raghunath S.</li> <li>2. MAHAJAN, Shrinivas Padmakar</li> <li>3. ANUSE, Alwin Damodar</li> <li>4. KUTE, Rupali Sandip</li> <li>5. PURNAYE, Prasad Purushottam</li> <li>6. MUNOT, Mousami Vaibhav</li> </ol>

EARLIEST PRIORITY CLAIMED		
COUNTRY	NUMBER	DATE
33	31	32

TITLE OF INVENTION	
54	<b>ARTIFICIAL INTELLIGENCE BASED SMART ANTENNA SYSTEM FOR GREEN COMMUNICATION</b>

57	In the future of wireless communications, the required data rate and the number of connected mobile devices are expected to increase dramatically. Wireless networks manage billions of devices that are all inter-connected. However, applications such as real-time videos, games, voice, and movies which is what the devices are used for, need very high throughput. Demand for wireless devices and extra bandwidth will forever be on the rise. The level of energy consumption by the wireless systems is also on the rise causing much concern. Hence, next generation wireless systems need to meet three demands namely, i) to have a high throughput; ii) to be able to serve multiple users at the same time; and iii) energy consumed by wireless systems has to be reduced. It is not possible for the existing 4G systems and standards to meet these requirements. There needs to be a thrust in the development of 5G systems in order to maintain higher rates of data for get improved coverage, conform to "green communication" to bring down the consumption of energy and have better backward compatibility. Massive multiple - input multiple - output (MIMO) technology has the potential to meet these ever increasing demands. The base stations (BS) or access points (AP) in the Massive MIMO systems have many more antennas as compared with 4G systems. The Massive MIMO is a key element of the 5G standard. The 5G systems and future generations of systems will have the capacity to serve a huge number of users at the same time in the same time-frequency resource. Taking advantage of the high spatial degrees-of-freedom permits extensive spatial multiplexing, which can result in high data-rates, but with no increase in the spectrum as well as the transmit power.
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**INTELLECTUAL  
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

क्रमांक : 022121558  
SL No :



भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 415985  
आवेदन सं. / Application No. : 2035/MUM/2015  
फाइल करने की तारीख / Date of Filing : 26/05/2015  
पेटेंटी / Patentee : 1.SAPALI SHIVALINGAPPA NAGAPPA 2.AHUJA  
BHARATKUMAR BHAGATRAJ 3.AVINASH M.  
DESHMUKH 4.KALE SANDIP ACHUTRAO

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित MIST NOZZLE AND METHOD OF MAKING THE SAME नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मई 2015 के छब्बीसवें दिन 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 MIST NOZZLE AND METHOD OF MAKING THE SAME as disclosed in the above mentioned application for the term of 20 years from the 26<sup>th</sup> day of May 2015 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 29/12/2022  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मई 2017 के छब्बीसवें दिन 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 26<sup>th</sup> day of May 2017 and on the same day in every year thereafter.



**INTELLECTUAL  
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)

क्रमांक : 022121837  
SL No :



पेटेंट सं. / Patent No. : 417624  
आवेदन सं. / Application No. : 2474/MUM/2012  
फाइल करने की तारीख / Date of Filing : 27/08/2012  
पेटेंटी / Patentee : SAPALI SHIVALINGAPPA NAGAPPA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित SOLAR OPERATED ENERGY EFFICIENT EVAPORATIVE AIR COOLER WITHOUT PUMP नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2012 के सत्ताईसवें दिन 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 SOLAR OPERATED ENERGY EFFICIENT EVAPORATIVE AIR COOLER WITHOUT PUMP as disclosed in the above mentioned application for the term of 20 years from the 27<sup>th</sup> day of August 2012 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 11/01/2023  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अगस्त 2014 के सत्ताईसवें दिन 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 27<sup>th</sup> day of August 2014 and on the same day in every year thereafter.





**INTELLECTUAL  
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

क्रमांक : 022116998  
SL No :



भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

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

पेटेंट सं. / Patent No. : 390617  
आवेदन सं. / Application No. : 3754/MUM/2015  
फाइल करने की तारीख / Date of Filing : 01/10/2015  
पेटेंटी / Patentee : Suhas Sakharam Mohite  
आविष्कारक (जहां लागू हो) / Inventor(s) : 1.Suhas Sakharam Mohite 2.Vinayak P. Gaikwad

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित MICRO-CHANNEL HEAT-EXCHANGER INSPIRED BY LEAF-VENATION FOR ELECTRONIC COOLING नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 1st day of October 2015 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 MICRO-CHANNEL HEAT-EXCHANGER INSPIRED BY LEAF-VENATION FOR ELECTRONIC COOLING as disclosed in the above mentioned application for the term of 20 years from the 1st day of October 2015 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 28/02/2022  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 1st day of October 2017 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 1st day of October 2017 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 457626

आवेदन सं. / Application No. 4020/MUM/2015

फाइल करने की तारीख / Date of Filing 25/10/2015

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A SYSTEM AND METHOD FOR CENTRIFUGAL AIR BLAST SHOT PEENING** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2015 के पच्चीसवें दिन 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 **A SYSTEM AND METHOD FOR CENTRIFUGAL AIR BLAST SHOT PEENING** as disclosed in the above mentioned application for the term of 20 years from the 25<sup>th</sup> day of October 2015 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*  
Controller of Patents

अनुदान की तारीख : 09/10/2023  
Date of Grant :

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2017 के पच्चीसवें दिन 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 25<sup>th</sup> day of October 2017 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं./ Patent No. 456539

आवेदन सं./ Application No. 4474/MUM/2015

फाइल करने की तारीख / Date of Filing 29/11/2015

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *AN AUTO-RETRACTABLE AND AUTOMATED ASSISTIVE DEVICE FOR USE PRIOR TO DIALYSIS* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2015 के उन्तीसवें दिन 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 AUTO-RETRACTABLE AND AUTOMATED ASSISTIVE DEVICE FOR USE PRIOR TO DIALYSIS* as disclosed in the above mentioned application for the term of 20 years from the 29<sup>th</sup> day of November 2015 in accordance with the provisions of the Patents Act,1970.



*(Signature)*  
Controller of Patents

अनुदान की तारीख / Date of Grant : 04/10/2023

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2017 के उन्तीसवें दिन 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 29<sup>th</sup> day of November 2017 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र | Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

**पेटेंट सं. / Patent No.** 530699

**आवेदन सं. / Application No.** 4865/MUM/2015

**फाइल करने की तारीख / Date of Filing** 28/12/2015

**पेटेंटी / Patentee** COLLEGE OF ENGINEERING, SHIVAJINAGAR, PUNE, AN  
 AUTONOMOUS INSTITUTE OF GOVERNMENT OF  
 MAHARASHTRA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित UNDER RUN PROTECTION DEVICE FOR FOUR WHEELER VEHICLES HAVING LOW GROUND CLEARANCE नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2015 के अट्टाईसवें दिन 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 UNDER RUN PROTECTION DEVICE FOR FOUR WHEELER VEHICLES HAVING LOW GROUND CLEARANCE as disclosed in the above mentioned application for the term of 20 years from the 28<sup>th</sup> day of December 2015 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
**इन्वेंटर की संज्ञित**  
 पेटेंट नियंत्रक

**अनुदान की तारीख / Date of Grant :** 28/03/2024 **Controller of Patents**

**टिप्पणी -** इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2017 के अट्टाईसवें दिन 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 28<sup>th</sup> day of December 2017 and on the same day in every year thereafter.

## Design Application Details

**Application Number:**

363646-001

**CBR Number:**

201231

**CBR Date:**

04/05/2022 15:21:13

**Applicant Name:**

**COLLEGE OF ENGINEERING**

## Design Application Status

**Application Status:**

Design Accepted and Published, Journal No is 01/2024 and Journal Date is 05/01/2024

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : [controllerdesign@ipc@nic.in](mailto:controllerdesign@ipc@nic.in)

Controller General of Patents, Designs and Trademarks

## Design Application Details

**Application Number:**

379602-001

**CBR Number:**

202242

**CBR Date:**

18/02/2023 11:48:41

**Applicant Name:**

1. Dr. Tarun Kumar Tailor      2. Chintan D. Patel      3. Dr. Krishnav Bhatia  
4. Gauri Sarode      5. Dr. Mukesh Kirar

## Design Application Status

**Application Status:**

Design Accepted and Published, Journal No is 17/2023 and Journal Date is 28/04/2023

[Back \(/DesignApplicationStatus/\)](#)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : [controllerdesign@ipc@nic.in](mailto:controllerdesign@ipc@nic.in)

Controller General of Patents, Designs and Trademarks





पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India  
डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 422949-001  
तारीख / Date : 11/07/2024  
पारस्परिकता तारीख / Reciprocity Date\* :  
देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **IOT BASED PORTABLE SOLAR POWERED CHARGER FOR ELECTRONIC DEVICE** से संबंधित है, का पंजीकरण, श्रेणी 13-02 में 1.Ms. Kiran Sharma 2. Dr. Devendra Joshi 3.Mrs.Vinodini Bhushan Bhole 4.Dr Aftab Ahmed Ansari 5.Dr. S. Kanchana 6.Sweety Bakyrani E 7.Dr. Reeta Pawar 8.Poornima Shrivastava के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

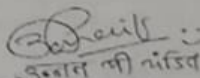
Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 13-02 in respect of the application of such design to **IOT BASED PORTABLE SOLAR POWERED CHARGER FOR ELECTRONIC DEVICE** in the name of 1.Ms. Kiran Sharma 2. Dr. Devendra Joshi 3.Mrs.Vinodini Bhushan Bhole 4.Dr Aftab Ahmed Ansari 5.Dr. S. Kanchana 6.Sweety Bakyrani E 7.Dr. Reeta Pawar 8.Poornima Shrivastava.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्याधीन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 25/09/2024  
Date of Issue :



  
महानिबंधक पेटेंट, डिजाइन और व्यापार चिह्न  
Controller General of Patents, Designs and Trade Marks

\*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वतःपिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।  
The reciprocity date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in legal proceedings or for obtaining registration abroad.



Intellectual  
Property  
Office

## Certificate of Registration for a UK Design

Design number: 6349635

Grant date: 08 March 2024

Registration date: 28 February 2024

### This is to certify that,

in pursuance of and subject to the provision of Registered Designs Act 1949, the design of which a representation or specimen is attached, had been registered as of the date of registration shown above in the name of

COEP Technological University, Mr. Mahavir Kantilal Beldar,

Dr. Bharatkumar Bhagatraj Ahuja, Dr. Nagesh Kallappa Chougule,

Dr. Kashinath Sahoo

in respect of the application of such design to:

Dynamic Splint for Clubfoot Treatment

International Design Classification:

Version: 14-2023

Class: 24 MEDICAL AND LABORATORY EQUIPMENT

Subclass: 04 MATERIALS FOR DRESSING WOUNDS, NURSING AND  
MEDICAL CARE

**Adam Williams**

Comptroller-General of Patents, Designs and Trade Marks

Intellectual Property Office

The attention of the Proprietor(s) is drawn to the important notes overleaf.





Australian Government

IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021104946

The Commissioner of Patents has granted the above patent on 20 April 2022, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

Rupali Sandip Kute of Dr. Vishwanath Karad MIT World Peace University, S. No. 124, Paud Road Kothrud Pune 411038 India

Dr. Vishwanath Karad MIT World Peace University of S. No. 124 Paud Road Kothrud Pune Maharashtra 411038 India

College of Engineering Pune of Wellesely Rd, Shivajinagar 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):**

Kute, Rupali Sandip; VibhaVyas; Anuse, Alwin Damodar; Sutaone, Mukul; Vaibhav Munot, Mousami and Nath Srivastava, Suyash 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 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 20<sup>th</sup> day of April 2022

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



**REPUBLIC OF SINGAPORE  
THE PATENT ACT (CHAPTER 221)  
CERTIFICATE ISSUED UNDER SECTION 35**

*I HEREBY CERTIFY that under the provisions of the Patent Act, a patent has been granted in respect of an invention having the following particulars:*

**TITLE** : AN EPIDERMAL SUSPENSION SPRAY DEVICE

**APPLICATION NUMBER/  
PATENT NUMBER** : 11202009572W

**DATE OF FILING** : 28 MARCH 2019

**PRIORITY DATA** : 28 MARCH 2018 - PATENT APPLICATION NO.  
201821011504 (INDIA)

**NAME OF INVENTOR(S)** : POYAREKAR, SAIPRASAD;  
MAHALE, CHETAN;  
ANASANE, SANDIP;  
AHUJA, BHARATKUMAR;  
PANSE, NIKHIL;  
PHULWAR, ROHIT

**NAME(S) AND ADDRESS(ES) OF  
PROPRIETOR(S) OF PATENT** : COLLEGE OF ENGINEERING, PUNE  
WELLESLEY ROAD., SHIVAJINAGAR PUNE 411005,  
MAHARASHTRA  
INDIA

**DATE OF GRANT** : 26 JANUARY 2022

DATED THIS 26<sup>TH</sup> DAY OF JANUARY 2022



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Mrs. Rena Lee  
Registrar of Patents  
Singapore



**INTELLECTUAL  
PROPERTY INDIA**  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

क्रम सं/SL No : 022136715



**पेटेंट कार्यालय, भारत सरकार**

**The Patent Office, Government Of India**

**पेटेंट प्रमाण पत्र**

**Patent Certificate**

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

501361

आवेदन सं. / Application No.

201621034738

फाइल करने की तारीख / Date of Filing

11/12/2016

पेटेंटी / Patentee

COLLEGE OF ENGINEERING

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A SYSTEM AND METHOD FOR DEVELOPMENT OF A PATIENT SPECIFIC PATH GUIDANCE TOOL** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2016 के ग्यारहवें दिन 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 **A SYSTEM AND METHOD FOR DEVELOPMENT OF A PATIENT SPECIFIC PATH GUIDANCE TOOL** as disclosed in the above mentioned application for the term of 20 years from the 11<sup>th</sup> day of December 2016 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

Controller of Patents

अनुदान की तारीख / Date of Grant : 19/01/2024

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2018 के ग्यारहवें दिन 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 11<sup>th</sup> day of December 2018 and on the same day in every year thereafter.





**INTELLECTUAL  
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

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

क्रमांक : 022117575  
SL No :



पेटेंट सं. / Patent No. : 393696  
आवेदन सं. / Application No. : 201621035365  
फाइल करने की तारीख / Date of Filing : 17/10/2016  
पेटेंटी / Patentee : 1.SAPALI SHIVALINGAPPA NAGAPPA 2.AHUJA  
BHARATKUMAR BHAGATRAJ 3.DESHMUKH AVINASH  
MADHUKARRAO

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित SOLAR OPERATED MULTIPURPOSE MISTSPRAY GENERATOR MACHINERY. नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 17th day of October 2016 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 SOLAR OPERATED MULTIPURPOSE MISTSPRAY GENERATOR MACHINERY. as disclosed in the above mentioned application for the term of 20 years from the 17th day of October 2016 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 30/03/2022  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 17th day of October 2018 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 17th day of October 2018 and on the same day in every year thereafter.



**INTELLECTUAL  
PROPERTY INDIA**

PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)

क्रमांक : 022119903  
SL No :



पेटेंट सं. / Patent No. : 406729  
आवेदन सं. / Application No. : 201621035369  
फाइल करने की तारीख / Date of Filing : 17/10/2016  
पेटेंटी / Patentee : 1.SAPALI SHIVLINGAPPA NAGAPPA 2.DESHMUKH  
AVINASH MADHUKARRAO

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित ENERGY EFFICIENT MULTIPURPOSE MIST SPRAY EVAPORATIVE COOLER नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2016 के सत्रहवें दिन 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 ENERGY EFFICIENT MULTIPURPOSE MIST SPRAY EVAPORATIVE COOLER as disclosed in the above mentioned application for the term of 20 years from the 17<sup>th</sup> day of October 2016 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 15/09/2022  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2018 के सत्रहवें दिन 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 17<sup>th</sup> day of October 2018 and on the same day in every year thereafter.



क्रम सं/SL No : 022132012



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 475812

आवेदन सं. / Application No. 201621042698

फाइल करने की तारीख / Date of Filing 14/12/2016

पेटेंटी / Patentee COLLEGE OF ENGINEERING

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित **A GENERALISED PATH GUIDANCE TOOL TO ASSIST IN MINIMUM INVASIVE SURGERY OF LUMBAR SPINE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2016 के चौदहवें दिन 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 **A GENERALISED PATH GUIDANCE TOOL TO ASSIST IN MINIMUM INVASIVE SURGERY OF LUMBAR SPINE** as disclosed in the above mentioned application for the term of 20 years from the 14<sup>th</sup> day of December 2016 in accordance with the provisions of the Patents Act, 1970.



Controller of Patents

अनुदान की तारीख / Date of Grant : 30/11/2023

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2018 के चौदहवें दिन 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 14<sup>th</sup> day of December 2018 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 471825

आवेदन सं. / Application No. 201621042767

फाइल करने की तारीख / Date of Filing 15/01/2017

पेटेंटी / Patentee COLLEGE OF ENGINEERING

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A VAPOUR POLISHING APPARATUS FOR 3D PRINTED JOBS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2017 के पंद्रहवें दिन 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 **A VAPOUR POLISHING APPARATUS FOR 3D PRINTED JOBS** as disclosed in the above mentioned application for the term of 20 years from the 15<sup>th</sup> day of January 2017 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

Controller of Patents

अनुदान की तारीख : 22/11/2023  
Date of Grant :

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2019 के पंद्रहवें दिन 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 15<sup>th</sup> day of January 2019 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** | **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** | **Patent Certificate**

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 491740

आवेदन सं. / Application No. 201621043343

फाइल करने की तारीख / Date of Filing 19/12/2016

पेटेंटी / Patentee COLLEGE OF ENGINEERING

आविष्कारकों का नाम / Name of Inventor(s) 1.SACHIN SHINDE 2.NEELA RAJHANS

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A MECHANICAL LATERAL TILTING BED FOR BEDRIDDEN PATIENTS TO REDUCE PRESSURE ULCERS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2016 के उन्नीसवें दिन 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 **A MECHANICAL LATERAL TILTING BED FOR BEDRIDDEN PATIENTS TO REDUCE PRESSURE ULCERS** as disclosed in the above mentioned application for the term of 20 years from the 19<sup>th</sup> day of December 2016 in accordance with the provisions of the Patents Act,1970.



*(Signature)*  
Controller of Patents

अनुदान की तारीख : 29/12/2023  
Date of Grant :

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2018 के उन्नीसवें दिन 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 19<sup>th</sup> day of December 2018 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** | **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** | **Patent Certificate**

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. **461680**

आवेदन सं. / Application No. **201621043344**

फाइल करने की तारीख / Date of Filing **19/12/2016**

पेटेंटी / Patentee **COLLEGE OF ENGINEERING**

आविष्कारकों का नाम / Name of Inventor(s) **1.SACHIN SHINDE 2.NEELA RAJHANS**

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A MATTRESS FOR PREVENTING PRESSURE ULCERS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख दिसम्बर 2016 के उन्नीसवें दिन 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 **A MATTRESS FOR PREVENTING PRESSURE ULCERS** as disclosed in the above mentioned application for the term of 20 years from the 19<sup>th</sup> day of December 2016 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*  
Controller of Patents

अनुदान की तारीख / Date of Grant : **25/10/2023**

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, दिसम्बर 2018 के उन्नीसवें दिन 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 19<sup>th</sup> day of December 2018 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 499407

आवेदन सं. / Application No. 201721025068

फाइल करने की तारीख / Date of Filing 14/07/2017

पेटेंटी / Patentee : 1. Shivlingappa N. Sapali 2. Ajit B. Shinde 3. COLLEGE OF ENGINEERING, PUNE (COEP)

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A HEAT EXCHANGER APPARATUS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2017 के चौदहवें दिन 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 **A HEAT EXCHANGER APPARATUS** as disclosed in the above mentioned application for the term of 20 years from the 14<sup>th</sup> day of July 2017 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
Controller of Patents

अनुदान की तारीख : 15/01/2024  
Date of Grant :

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जुलाई 2019 के चौदहवें दिन 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 14<sup>th</sup> day of July 2019 and on the same day in every year thereafter.



क्रम सं/SL No :022137514



पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India
पेटेंट प्रमाण पत्र Patent Certificate

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 505269
आवेदन सं. / Application No. 201721035275
फाइल करने की तारीख / Date of Filing 05/10/2017
पेटेंटी / Patentee 1.Nitin Chopra 2.Sonal Shamkuwar 3.Dileep Malkhede
आविष्कारकों का नाम /Name of Inventor(s) 1.Nitin Chopra 2.Sonal Shamkuwar 3.Dileep Malkhede 4.Dange Prasannakumar 5.Rugved Vinayak Damle 6.Nikhil Vijay Chandratre

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित VARIABLE GEOMETRY CENTRIFUGAL FLUIDIZED CHAMBER नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2017 के पांचवें दिन 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 VARIABLE GEOMETRY CENTRIFUGAL FLUIDIZED CHAMBER as disclosed in the above mentioned application for the term of 20 years from the 5th day of October 2017 in accordance with the provisions of the Patents Act,1970.



Signature of Controller of Patents

अनुदान की तारीख / Date of Grant : 30/01/2024

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2019 के पांचवें दिन 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 5th day of October 2019 and on the same day in every year thereafter.



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GEOGRAPHICAL INDICATIONS



क्रम सं/SL No :022124718



सत्यमेव जयते

पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियम का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

433840

आवेदन सं. / Application No.

201821000978

फाइल करने की तारीख / Date of Filing

09/01/2018

पेटेंटी / Patentee

COLLEGE OF ENGINEERING PUNE

एतद्वारा प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित **A RETRO-FIT MECHANISM FOR A BELLOW-BASED MUSICAL INSTRUMENT** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2018 के नौवें दिन 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 **A RETRO-FIT MECHANISM FOR A BELLOW-BASED MUSICAL INSTRUMENT** as disclosed in the above mentioned application for the term of 20 years from the 9<sup>th</sup> day of January 2018 in accordance with the provisions of the Patents Act, 1970.*



*[Signature]*

Controller of Patents

अनुदान की तारीख : 06/06/2023  
Date of Grant :

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2020 के नौवें दिन 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 9<sup>th</sup> day of January 2020 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 475693

आवेदन सं. / Application No. 201821000979

फाइल करने की तारीख / Date of Filing 09/01/2018

पेटेंटी / Patentee COLLEGE OF ENGINEERING PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A TESTING SET UP FOR EVALUATING THE PERFORMANCE OF LABORATORY FULL-SCALE MODEL PAVEMENT** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2018 के नौवें दिन 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 **A TESTING SET UP FOR EVALUATING THE PERFORMANCE OF LABORATORY FULL-SCALE MODEL PAVEMENT** as disclosed in the above mentioned application for the term of 20 years from the 9<sup>th</sup> day of January 2018 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

Controller of Patents

अनुदान की तारीख / Date of Grant : 30/11/2023

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2020 के नौवें दिन 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 9<sup>th</sup> day of January 2020 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 435205

आवेदन सं. / Application No. 201821011502

फाइल करने की तारीख / Date of Filing 28/03/2018

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A DEVICE TO MONITOR AND DETECT OBSTRUCTION IN AN ENDOTRACHEAL TUBE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2018 के अट्टाईसवें दिन 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 **A DEVICE TO MONITOR AND DETECT OBSTRUCTION IN AN ENDOTRACHEAL TUBE** as disclosed in the above mentioned application for the term of 20 years from the 28<sup>th</sup> day of March 2018 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*  
Controller of Patents

अनुदान की तारीख / Date of Grant : 19/06/2023

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2020 के अट्टाईसवें दिन 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 28<sup>th</sup> day of March 2020 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 510228

आवेदन सं. / Application No. 201821011503

फाइल करने की तारीख / Date of Filing 28/03/2018

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

आविष्कारकों का नाम / Name of Inventor(s)  
1. JUILEE DESHPANDE 2. GANDHALI KELKAR 3. AMAN NADAF  
4. PRAKASH BHAVE 5. SANDEEP ANASANE 6. MAYUR SANAS  
7. ARATI MULAY 8. BHARATKUMAR BHAGATRAJ AHUJA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **AN ASSISTIVE MECHANISM FOR X-RAY IMAGE ENHANCEMENT** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2018 के अट्टाईसवें दिन 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 ASSISTIVE MECHANISM FOR X-RAY IMAGE ENHANCEMENT** as disclosed in the above mentioned application for the term of 20 years from the 28<sup>th</sup> day of March 2018 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
इकांत की शंख

अनुदान की तारीख / Date of Grant : 13/02/2024 Controller of Patents

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2020 के अट्टाईसवें दिन 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 28<sup>th</sup> day of March 2020 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 515675

आवेदन सं. / Application No. 201821011504

फाइल करने की तारीख / Date of Filing 28/03/2018

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A DERMO-EPIDERMAL SUSPENSION SPRAY-DEVICE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2018 के अट्टाईसवें दिन 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 **A DERMO-EPIDERMAL SUSPENSION SPRAY DEVICE** as disclosed in the above mentioned application for the term of **20 years from the 28<sup>th</sup> day of March 2018 in accordance with the provisions of the Patents Act, 1970.**



*(Signature)*  
इकांत की शंख

अनुदान की तारीख : 27/02/2024  
Date of Grant : 27/02/2024

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2020 के अट्टाईसवें दिन 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 28<sup>th</sup> day of March 2020 and on the same day in every year thereafter.



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GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)

क्रमांक : 022123279  
SL No :



पेटेंट सं. / Patent No. : 425813  
आवेदन सं. / Application No. : 201821012547  
फाइल करने की तारीख / Date of Filing : 03/04/2018  
पेटेंटी / Patentee : COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A UNIFIED SENSORLESS CONTROL SYSTEM AND METHOD OF DC-DC CONVERTERS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2018 के तीसरे दिन 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 A UNIFIED SENSORLESS CONTROL SYSTEM AND METHOD OF DC-DC CONVERTERS as disclosed in the above mentioned application for the term of 20 years from the 3<sup>rd</sup> day of April 2018 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 20/03/2023  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2020 के तीसरे दिन 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 3<sup>rd</sup> day of April 2020 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 490181

आवेदन सं. / Application No. 201821014396

फाइल करने की तारीख / Date of Filing 16/04/2018

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **AN OUTER ROTOR HYBRID EXCITED POLYPHASE TRANSVERSE FLUX MACHINE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2018 के सोलहवें दिन 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 OUTER ROTOR HYBRID EXCITED POLYPHASE TRANSVERSE FLUX MACHINE** as disclosed in the above mentioned application for the term of 20 years from the 16<sup>th</sup> day of April 2018 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

अनुदान की तारीख : 27/12/2023  
Date of Grant : 27/12/2023

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2020 के सोलहवें दिन 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 16<sup>th</sup> day of April 2020 and on the same day in every year thereafter.



पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India  
पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 465906

आवेदन सं. / Application No. 201821014397

फाइल करने की तारीख / Date of Filing 16/04/2018

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित AN OUTER ROTOR PERMANENT MAGNET POLYPHASE TRANSVERSE FLUX MACHINE नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2018 के सोलहवें दिन 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 OUTER ROTOR PERMANENT MAGNET POLYPHASE TRANSVERSE FLUX MACHINE as disclosed in the above mentioned application for the term of 20 years from the 16<sup>th</sup> day of April 2018 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*

अनुदान की तारीख : 06/11/2023  
Date of Grant : 06/11/2023

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2020 के सोलहवें दिन 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 16<sup>th</sup> day of April 2020 and on the same day in every year thereafter.



क्रम सं/SL No :022144496



**पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र | Patent Certificate**

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. **538362**

आवेदन सं. / Application No. **201821016457**

फाइल करने की तारीख / Date of Filing **01/11/2018**

पेटेंटी / Patentee **COLLEGE OF ENGINEERING, PUNE**

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित **A PORTABLE HAPTIC FEEDBACK DEVICE FOR SCREENING AND AIDING IN DIAGNOSIS BY PALPATION** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2018 के पहले दिन 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 **A PORTABLE HAPTIC FEEDBACK DEVICE FOR SCREENING AND AIDING IN DIAGNOSIS BY PALPATION** as disclosed in the above mentioned application for the term of 20 years from the 1<sup>st</sup> day of November 2018 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
इकांत की शंख

अनुदान की तारीख : **16/05/2024**  
Date of Grant : **16/05/2024**

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2020 के पहले दिन 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 1<sup>st</sup> day of November 2020 and on the same day in every year thereafter.

पेटेंट नियंत्रक  
Controller of Patents







**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 493049

आवेदन सं. / Application No. 201921003487

फाइल करने की तारीख / Date of Filing 29/01/2019

पेटेंटी / Patentee COLLEGE OF ENGINEERING

आविष्कारकों का नाम / Name of Inventor(s) 1.N.B.DHOKEY 2.JAY RUNWAL 3.REVATI AMBEKAR

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *A MECHANICAL GRINDING SYSTEM AND PROCESS OF SURFACE MODIFICATION OF IRREGULAR SHAPED POWDERS* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2019 के उन्नतीसवें दिन 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 *A MECHANICAL GRINDING SYSTEM AND PROCESS OF SURFACE MODIFICATION OF IRREGULAR SHAPED POWDERS* as disclosed in the above mentioned application for the term of 20 years from the 29<sup>th</sup> day of January 2019 in accordance with the provisions of the Patents Act,1970.



*[Signature]*

अनुदान की तारीख / Date of Grant : 02/01/2024 पेटेंट नियंत्रक / Controller of Patents

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2021 के उन्नतीसवें दिन 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 29<sup>th</sup> day of January 2021 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 496220

आवेदन सं. / Application No. 201921010780

फाइल करने की तारीख / Date of Filing 20/03/2019

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

आविष्कारकों का नाम / Name of Inventor(s)  
1. MILANKUMAR RAMAKANT NANDGAONKAR 2. APTE ALOK  
ASHISH 3. SHAIKH HAMDAAN ASIF 4. KADAM VIJAY GANPAT  
5. SHINDE GANESH GOPAL 6. KOTHAWADE PRATIK  
PRADEEP 7. PAWAR GANESH RANJAN

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **AN INTAKE SYSTEM FOR A TURBOCHARGED ENGINE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2019 के बीसवें दिन 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 INTAKE SYSTEM FOR A TURBOCHARGED ENGINE** as disclosed in the above mentioned application for the term of 20 years from the 20<sup>th</sup> day of March 2019 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*  
पेटेंट नियंत्रक  
Controller of Patents

अनुदान की तारीख / Date of Grant : 08/01/2024

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2021 के बीसवें दिन 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 20<sup>th</sup> day of March 2021 and on the same day in every year thereafter.







क्रम सं/SL No : 022129630



**पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र | Patent Certificate**

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 462727

आवेदन सं. / Application No. : 201921027975

फाइल करने की तारीख / Date of Filing : 12/07/2019

पेटेंटी / Patentee : COLLEGE OF ENGINEERING

आविष्कारकों का नाम / Name of Inventor(s) :  
1. KAMALESH KUMAR TRIPATHI 2. KAKASAHEB WAGHMARE  
3. TANVEER BAGWAN 4. MAHESH SHEDEKAR 5. JANAK SURIYA  
6. ARPIT MATHUR 7. RAVINDRA JAGDALE  
8. SHUBHAM LOYA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **IN-SITU TORSIONAL DIRECT SHEAR TEST DEVICE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जुलाई 2019 के बारहवें दिन 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 on an invention entitled **IN-SITU TORSIONAL DIRECT SHEAR TEST DEVICE** as disclosed in the above mentioned application for the term of 20 years from the 12<sup>th</sup> day of July 2019 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
Controller of Patents

अनुदान की तारीख / Date of Grant : 27/10/2023

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जुलाई 2021 के बारहवें दिन 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 12<sup>th</sup> day of July 2021 and on the same day in every year thereafter.



**INTELLECTUAL  
PROPERTY INDIA**

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GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

क्रमांक : 022119502  
SL No :



भारत सरकार  
GOVERNMENT OF INDIA

पेटेंट कार्यालय  
THE PATENT OFFICE

पेटेंट प्रमाणपत्र  
PATENT CERTIFICATE  
(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 404560  
आवेदन सं. / Application No. : 201921048998  
फाइल करने की तारीख / Date of Filing : 28/11/2019  
पेटेंटी / Patentee : 1.NARENDRA BABANRAO DHOKEY 2.SAMEER  
SAMBHAJI SHINDE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A COUNTERCURRENT REACTOR नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2019 के अट्टाईसवें दिन 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 A COUNTERCURRENT REACTOR as disclosed in the above mentioned application for the term of 20 years from the 28<sup>th</sup> day of November 2019 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 25/08/2022  
Date of Grant :

पेटेंट नियंत्रक  
Controller of Patent

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2021 के अट्टाईसवें दिन 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 28<sup>th</sup> day of November 2021 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 445337

आवेदन सं. / Application No. 202021003486

फाइल करने की तारीख / Date of Filing 27/01/2020

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित **AN APPARATUS FOR VIBRATION, NOISE, AND TEMPERATURE BASED CONDITION MONITORING OF A MACHINE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2020 के सत्ताईसवें दिन 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 APPARATUS FOR VIBRATION, NOISE, AND TEMPERATURE BASED CONDITION MONITORING OF A MACHINE** as disclosed in the above mentioned application for the term of 20 years from the 27<sup>th</sup> day of January 2020 in accordance with the provisions of the Patents Act, 1970.



*[Signature]*  
पेटेंट नियंत्रक

अनुदान की तारीख / Date of Grant : 16/08/2023

Controller of Patents

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2022 के सत्ताईसवें दिन 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 27<sup>th</sup> day of January 2022 and on the same day in every year thereafter.





**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 480906

आवेदन सं. / Application No. 202021023096

फाइल करने की तारीख / Date of Filing 02/06/2020

पेटेंटी / Patentee

- 1.Sangeeta Hanumant Deshpande
- 2.Jayant Ambadas Kher
- 3.Shirish Alias Ratnakar Nilkanth Phadatare
- 4.Medha Hari Tadpatrikar

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **PROCESS FOR SYNTHESIS OF DIESEL OIL BY CATALYTIC PYROLYSIS OF THERMO SOFTENING PLASTIC WASTES** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जून 2020 के दूसरे दिन 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 SYNTHESIS OF DIESEL OIL BY CATALYTIC PYROLYSIS OF THERMO SOFTENING PLASTIC WASTES** as disclosed in the above mentioned application for the term of 20 years from the 2<sup>nd</sup> day of June 2020 in accordance with the provisions of the Patents Act,1970.



*(Signature)*  
Controller of Patents

अनुदान की तारीख / Date of Grant : 12/12/2023

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जून 2022 के दूसरे दिन 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 2<sup>nd</sup> day of June 2022 and on the same day in every year thereafter.

\*चूंकि पेटेंटी व आविष्कारकों की संख्या अधिक है, पेटेंटी व आविष्कारकों के नाम पृष्ठ संख्या 2 पर जारी हैं।  
\*Since the Number of Patentees / Inventors is more, the name of Patentees / Inventors are continued on Page No. 2



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**पेटेंट प्रमाणपत्र के लिए अनुलग्नक/Annexure to Patent Certificate**

**पेटेंट सं. / Patent No.**

**480906**

**आवेदन सं. / Application No.**

**202021023096**

**फाइल करने की तारीख / Date of Filing**

**02/06/2020**

**पेटेंटी / Patentee (जारी/Continued)**

**5.Nandini Venkat Iyer 6.Manisha Yogesh Khaladkar 7.Ganesh Labhas Agawane 8.Kaustubh Vyankatesh Ghamande**



क्रम सं/SL No : 022146129



**पेटेंट कार्यालय, भारत सरकार** | **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** | **Patent Certificate**

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 545563

आवेदन सं. / Application No. 202021035857

फाइल करने की तारीख / Date of Filing 20/08/2020

पेटेंटी / Patentee COLLEGE OF ENGINEERING, PUNE

आविष्कारकों का नाम / Name of Inventor(s) 1. RAJIV BASAVARAJAPPA 2. SURAJ GHOGARE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **A NON-CONVENTIONAL HEAT ENGINE SYSTEM TO GENERATE ELECTRICITY** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2020 के बीसवें दिन 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 **A NON-CONVENTIONAL HEAT ENGINE SYSTEM TO GENERATE ELECTRICITY** as disclosed in the above mentioned application for the term of 20 years from the 20<sup>th</sup> day of August 2020 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
इकांत की रांजित

अनुदान की तारीख / Date of Grant : 23/07/2024  
पेटेंट नियंत्रक / Controller of Patents

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अगस्त 2022 के बीसवें दिन 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 20<sup>th</sup> day of August 2022 and on the same day in every year thereafter.





सत्यमेव जयते



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

516416

आवेदन सं. / Application No.

202021040960

फाइल करने की तारीख / Date of Filing

22/09/2020

पेटेंटी / Patentee

COLLEGE OF ENGINEERING, PUNE

आविष्कारकों का नाम / Name of Inventor(s)

1.YOGESH KAMBLE 2.BASAVARAJAPPA RAJIV 3.PRAKASH PANTAWANE 4.BHARATKUMAR BHAGATRAJ AHUJA

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A SLOTTED CENTRE DRILLING TOOL FOR FRICTION DRILLING PROCESS नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2020 के बाईसवें दिन 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 A SLOTTED CENTRE DRILLING TOOL FOR FRICTION DRILLING PROCESS as disclosed in the above mentioned application for the term of 20 years from the 22<sup>nd</sup> day of September 2020 in accordance with the provisions of the Patents Act,1970.



इब्राहिम की अंसारी

पेटेंट नियंत्रक

अनुदान की तारीख / Date of Grant : 28/02/2024

Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2022 के बाईसवें दिन 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 22<sup>nd</sup> day of September 2022 and on the same day in every year thereafter.



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 Ministry of Commerce & Industry,  
 Government of India

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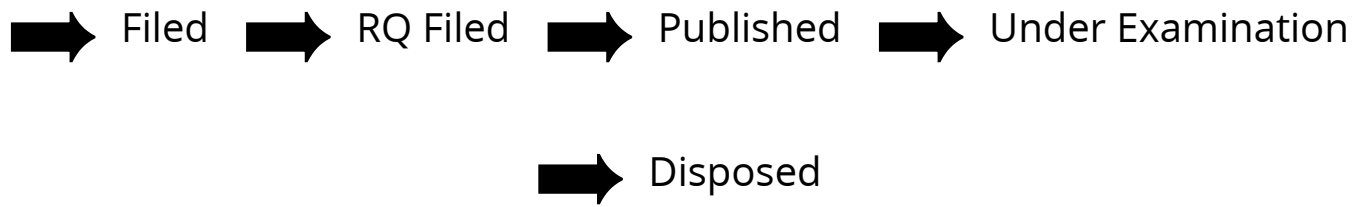
#### Application Details

APPLICATION NUMBER	202021055455	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	21/12/2020	
APPLICANT NAME	<b>COLLEGE OF ENGINEERING, PUNE</b>	
TITLE OF INVENTION	SYSTEM AND METHOD FOR PROCEEDING-BASED ASSET SAFETY AND ACTUATION WITH DEVICE SMARTPHONE-UNIQUE PAIRING	
FIELD OF INVENTION	COMMUNICATION	
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	17/12/2021	
PUBLICATION DATE (U/S 11A)	24/06/2022	
REPLY TO FER DATE	26/12/2022	

#### Application Status

APPLICATION STATUS	<b>Reply Filed. Application in amended examination</b>
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 Ministry of Commerce & Industry,  
 Government of India

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(<http://ipindia.nic.in/index.htm>)

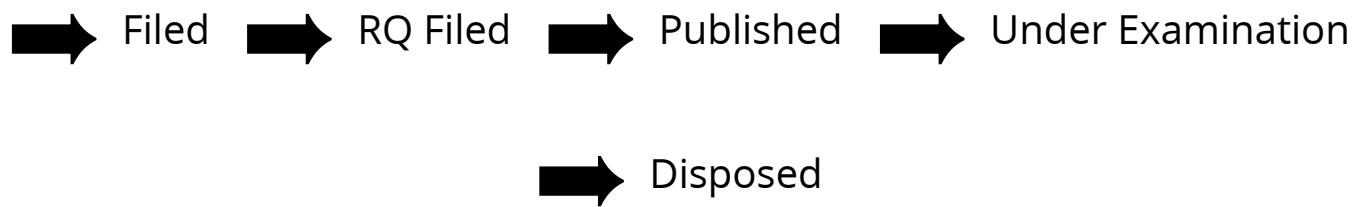
#### Application Details

APPLICATION NUMBER	202121011613	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	18/03/2021	
APPLICANT NAME	COLLEGE OF ENGINEERING	
TITLE OF INVENTION	COMPLEX PARTIAL EPILEPTIC SEIZURE DETECTION SYSTEM	
FIELD OF INVENTION	BIO-MEDICAL 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	15/03/2022	
PUBLICATION DATE (U/S 11A)	23/09/2022	
REPLY TO FER DATE	01/02/2023	

#### Application Status

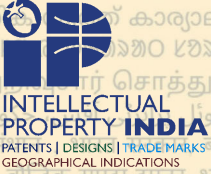
APPLICATION STATUS	<b>Reply Filed. Application in amended examination</b>
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**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 511178

आवेदन सं. / Application No. 202121012080

फाइल करने की तारीख / Date of Filing 22/03/2021

पेटेंटी / Patentee COLLEGE OF ENGINEERING

आविष्कारकों का नाम / Name of Inventor(s) 1.SHANTIPAL OHOL 2.SUMEDH CHIWANDE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित **NON-CONVENTIONAL CALIBRATION SYSTEM FOR INDUSTRIAL ROBOTS** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मार्च 2021 के बाईसवें दिन 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 **NON-CONVENTIONAL CALIBRATION SYSTEM FOR INDUSTRIAL ROBOTS** as disclosed in the above mentioned application for the term of 20 years from the 22<sup>nd</sup> day of March 2021 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
इकांत की शंख

अनुदान की तारीख / Date of Grant : 15/02/2024 Controller of Patents

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मार्च 2023 के बाईसवें दिन 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 22<sup>nd</sup> day of March 2023 and on the same day in every year thereafter.



**पेटेंट कार्यालय, भारत सरकार** **The Patent Office, Government Of India**  
**पेटेंट प्रमाण पत्र** **Patent Certificate**

(पेटेंट नियमावली का नियम 74) (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 519000

आवेदन सं. / Application No. 202121017355

फाइल करने की तारीख / Date of Filing 14/04/2021

पेटेंटी / Patentee COLLEGE OF ENGINEERING

आविष्कारकों का नाम / Name of Inventor(s) 1.AMEYA PATHAK 2.ATUL SAJGURE 3.NEELA RAJHANS

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित **A CHEST-MOUNTED ILLUMINATOR** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2021 के चौदहवें दिन 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 **A CHEST-MOUNTED ILLUMINATOR** as disclosed in the above mentioned application for the term of 20 years from the 14<sup>th</sup> day of April 2021 in accordance with the provisions of the Patents Act, 1970.



*(Signature)*  
इकांत की शंख

अनुदान की तारीख : 04/03/2024  
Date of Grant : 04/03/2024

**टिप्पणी** - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अप्रैल 2023 के चौदहवें दिन 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 14<sup>th</sup> day of April 2023 and on the same day in every year thereafter.









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#### Application Details

APPLICATION NUMBER	202121031359	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	13/07/2021	
APPLICANT NAME	<b>COLLEGE OF ENGINEERING</b>	
TITLE OF INVENTION	AN IN-PIPE INSPECTION ROBOTIC SYSTEM	
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	13/07/2022	
PUBLICATION DATE (U/S 11A)	13/01/2023	
FIRST EXAMINATION REPORT DATE	19/01/2023	
Date Of Certificate Issue	30/05/2025	
POST GRANT JOURNAL DATE	06/06/2025	
REPLY TO FER DATE	18/07/2023	

#### Application Status

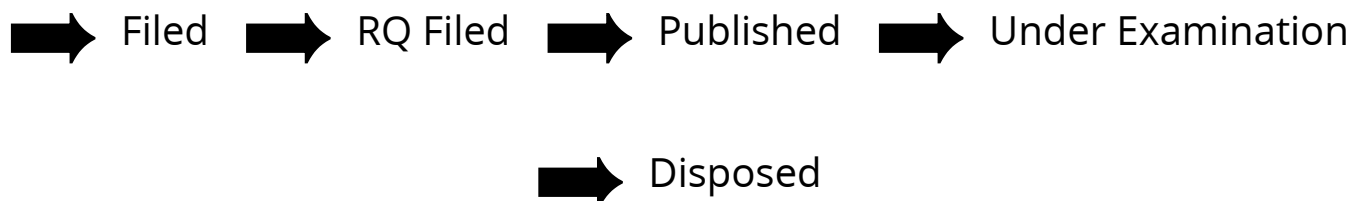
APPLICATION STATUS

**Granted Application, Patent Number :566978**

E-Register

Order(s)/Decision(s)

View Documents



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 Department for Promotion of Industry and Internal Trade  
 Ministry of Commerce & Industry,  
 Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

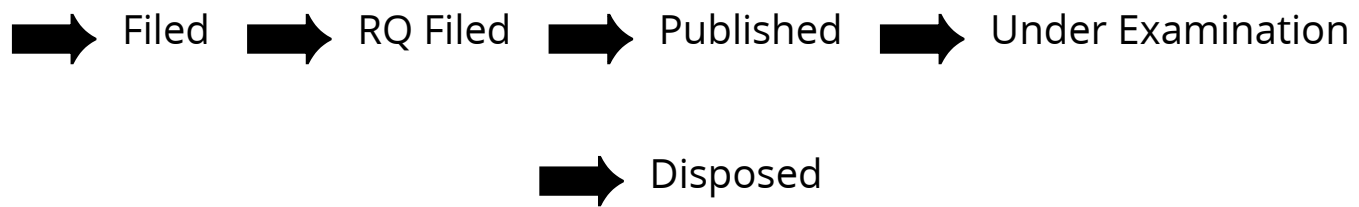
#### Application Details

APPLICATION NUMBER	202121037375	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	18/08/2021	
APPLICANT NAME	COLLEGE OF ENGINEERING	
TITLE OF INVENTION	AN AGRICULTURAL HARVESTING MACHINE	
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	17/08/2022	
PUBLICATION DATE (U/S 11A)	24/02/2023	
REPLY TO FER DATE	27/09/2023	

#### Application Status

APPLICATION STATUS	<b>Reply Filed. Application in amended examination</b>
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क्रम सं/SL No :022152374



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 572489

आवेदन सं. / Application No. : 202121047545

फाइल करने की तारीख / Date of Filing : 20/10/2021

पेटेंटी / Patentee : COLLEGE OF ENGINEERING

आविष्कारकों का नाम /Name of Inventor(s) : 1.SHANTIPAL OHOL 2.PANKAJ AGLAWE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित AN AUTOMATIC BONE ALIGNMENT SYSTEM नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अक्टूबर 2021 के बीसवें दिन 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 AUTOMATIC BONE ALIGNMENT SYSTEM as disclosed in the above mentioned application for the term of 20 years from the 20<sup>th</sup> day of October 2021 in accordance with the provisions of the Patents Act,1970.



Signature of Controller of Patents

अनुदान की तारीख : 23/10/2025  
Date of Grant :

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अक्टूबर 2023 के बीसवें दिन 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 20<sup>th</sup> day of October 2023 and on the same day in every year thereafter.





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**पेटेंट प्रमाणपत्र के लिए अनुलग्नक/Annexure to Patent Certificate**

**पेटेंट सं. / Patent No.**

**530628**

**आवेदन सं. / Application No.**

**202121053503**

**फाइल करने की तारीख / Date of Filing**

**22/11/2021**

**पेटेंटी / Patentee (जारी/Continued)**

**5.ARNAV BHARGAV BHAMBURKAR**



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 Department for Promotion of Industry and Internal Trade  
 Ministry of Commerce & Industry,  
 Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

### Application Details

APPLICATION NUMBER	202221012974	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	10/03/2022	
APPLICANT NAME	<b>COLLEGE OF ENGINEERING</b>	
TITLE OF INVENTION	AN SHAPED CHARGE LINER	
FIELD OF INVENTION	METALLURGY	
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	09/03/2023	
PUBLICATION DATE (U/S 11A)	15/09/2023	
FIRST EXAMINATION REPORT DATE	21/05/2024	
Date Of Certificate Issue	23/05/2025	
POST GRANT JOURNAL DATE	30/05/2025	
REPLY TO FER DATE	09/10/2024	

### Application Status

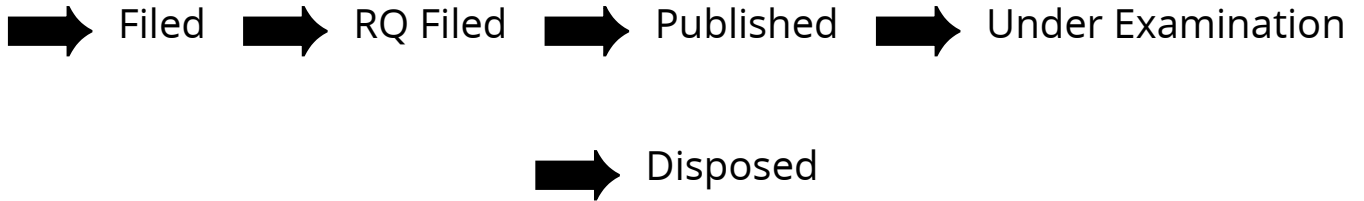
APPLICATION STATUS

**Granted Application, Patent Number :566577**

E-Register

Order(s)/Decision(s)

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Department for Promotion of Industry and Internal Trade  
Ministry of Commerce & Industry,  
Government of India

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(<http://ipindia.nic.in/index.htm>)

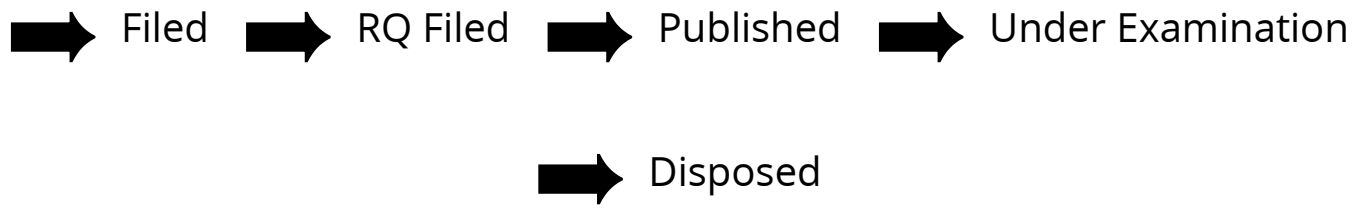
#### Application Details

APPLICATION NUMBER	202221024366
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/04/2022
APPLICANT NAME	COLLEGE OF ENGINEERING
TITLE OF INVENTION	WIND TURBINE SYSTEM FOR POWER GENERATION IN LOCOMOTIVES
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	24/04/2023
PUBLICATION DATE (U/S 11A)	27/10/2023

#### Application Status

APPLICATION STATUS	<b>Application referred u/s 12 for examination.</b>
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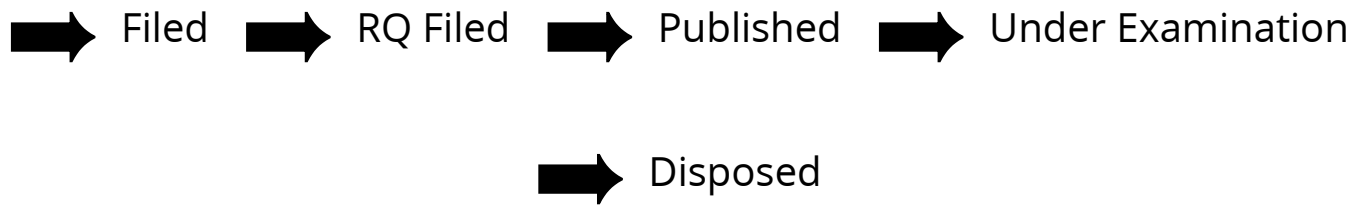
#### Application Details

APPLICATION NUMBER	202221035674
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/06/2022
APPLICANT NAME	COLLEGE OF ENGINEERING
TITLE OF INVENTION	A BATTERY PACK WITH AN IN-BUILT REFRIGERANT BASED THERMAL MANAGEMENT SYSTEM
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	chirag@inkidee.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	27/02/2023
PUBLICATION DATE (U/S 11A)	29/12/2023

#### Application Status

APPLICATION STATUS	<b>Application Awaiting Examination</b>
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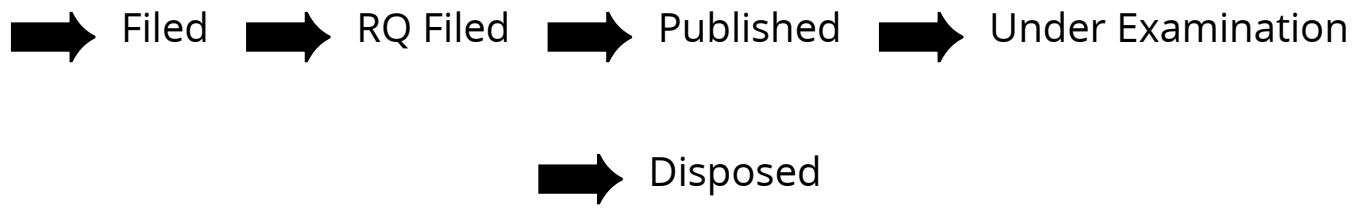
#### Application Details

APPLICATION NUMBER	202221036878
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/06/2022
APPLICANT NAME	COLLEGE OF ENGINEERING
TITLE OF INVENTION	A ROTARY RAKE MACHINE WITH A TORQUE CONTROL MECHANISM FOR ITS GEAR AND TINE ARM
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	chirag@inkidee.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	28/06/2023
PUBLICATION DATE (U/S 11A)	29/12/2023

#### Application Status

APPLICATION STATUS	<b>Application Awaiting Examination</b>
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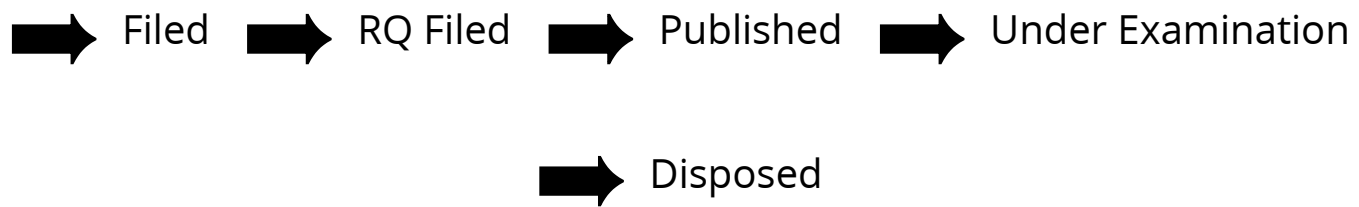
#### Application Details

APPLICATION NUMBER	202221036879	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	28/06/2022	
APPLICANT NAME	<b>COLLEGE OF ENGINEERING</b>	
TITLE OF INVENTION	A ROTARY RAKE MACHINE WITH A HYDRAULIC POWER TRANSMISSION AND TINE ARM TORQUE CONTROL	
FIELD OF INVENTION	MECHANICAL ENGINEERING	
E-MAIL (As Per Record)	chirag@inkidee.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	28/06/2023	
PUBLICATION DATE (U/S 11A)	29/12/2023	

#### Application Status

APPLICATION STATUS	<b>Application Awaiting Examination</b>
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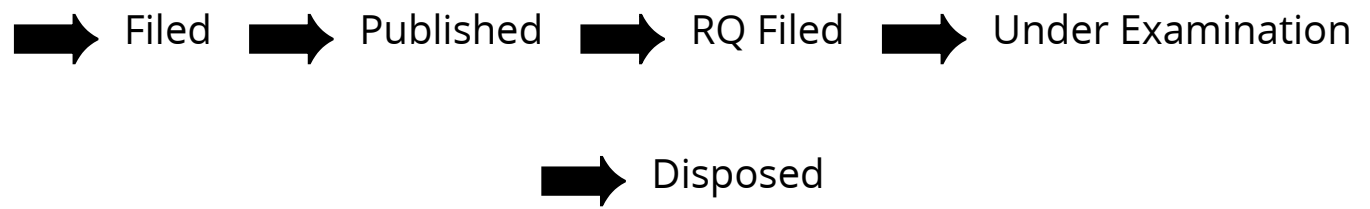
#### Application Details

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	<b>Awaiting Request for Examination</b>
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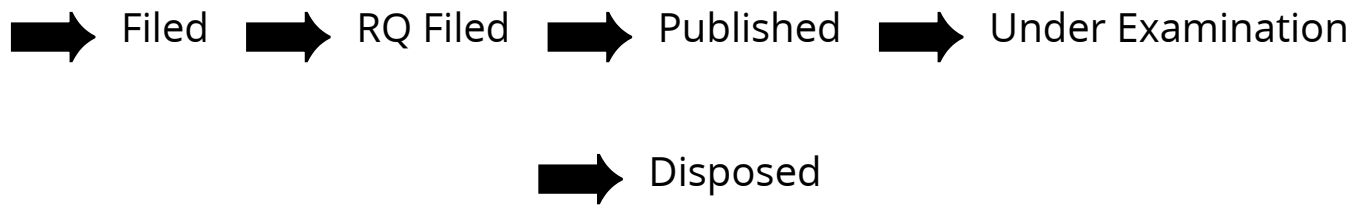
#### Application Details

APPLICATION NUMBER	202221042325	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	24/07/2022	
APPLICANT NAME	COLLEGE OF ENGINEERING	
TITLE OF INVENTION	AN APPARATUS TO DETERMINE THERMAL CONDUCTIVITY OF VOLATILE LIQUIDS	
FIELD OF INVENTION	PHYSICS	
E-MAIL (As Per Record)	chirag@inkidee.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	21/07/2023	
PUBLICATION DATE (U/S 11A)	16/02/2024	

#### Application Status

APPLICATION STATUS	<b>Application referred u/s 12 for examination.</b>
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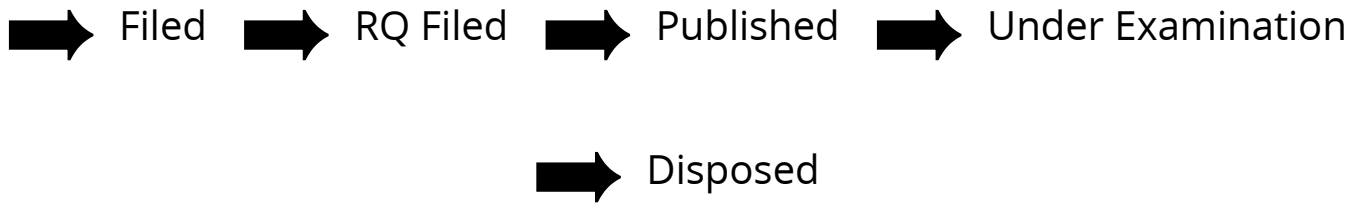
#### Application Details

APPLICATION NUMBER	202221047823	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	22/08/2022	
APPLICANT NAME	<b>COLLEGE OF ENGINEERING</b>	
TITLE OF INVENTION	SYSTEMS AND METHODS FOR LOCALIZING MOMENTS, IN SURVEILLANCE VIDEOS, USING NATURAL LANGUAGE QUERIES	
FIELD OF INVENTION	COMPUTER SCIENCE	
E-MAIL (As Per Record)	chirag@inkidee.com	
ADDITIONAL-EMAIL (As Per Record)		
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	22/08/2023	
PUBLICATION DATE (U/S 11A)	23/02/2024	

#### Application Status

APPLICATION STATUS	<b>FER Issued, Reply not Filed</b>
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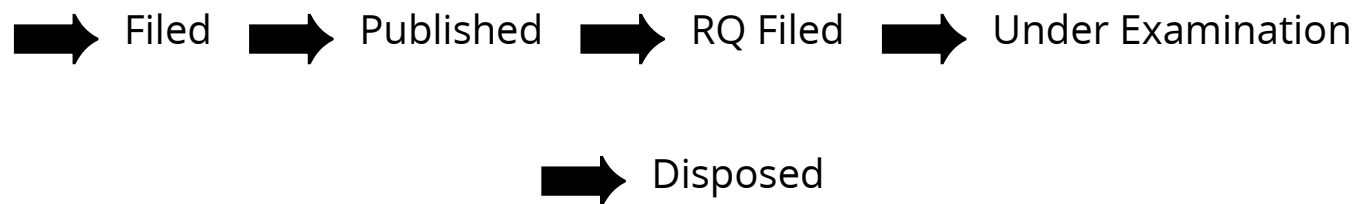
(<http://ipindia.nic.in/index.htm>)

Application Details	
APPLICATION NUMBER	202221065365
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/11/2022
APPLICANT NAME	1 . Dr Sujit Pardeshi 2 . Dr. Abhishek Dhananjay Patange 3 . Mr. Devid Sawarkar 4 . Mr. Siddhesh Vishwambhar
TITLE OF INVENTION	PHOTOVOLTAIC CHARGING APPROACH FOR ENERGY RECOVERY IN AUTOMOBILES
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	pardeshi.sujit@gmail.com
ADDITIONAL-EMAIL (As Per Record)	pardeshi.sujit@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	23/12/2022



Application Status	
APPLICATION STATUS	<b>Awaiting Request for Examination</b>

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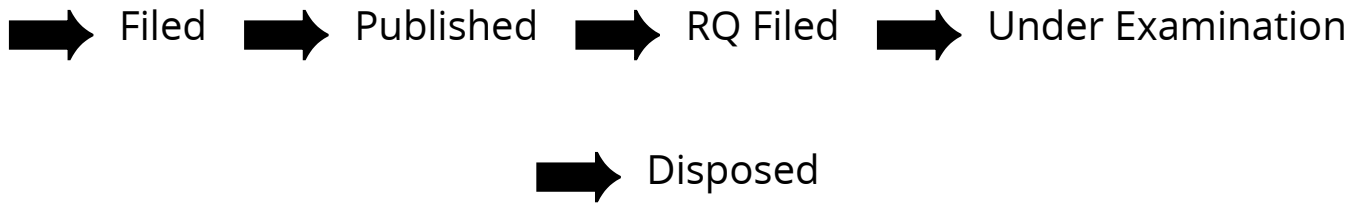
#### Application Details

APPLICATION NUMBER	202221065449	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	15/11/2022	
APPLICANT NAME	1 . Mr. Dayanand B. Jadhav 2 . Dr. Rajendra D. Kokate 3 . Mrs. Nandini D. Jadhav	
TITLE OF INVENTION	DEVELOPMENT OF NANO-SENSING GREEN ELEMENT FOR HYBRID VEHICLE APPLICATION	
FIELD OF INVENTION	CHEMICAL	
E-MAIL (As Per Record)	senanipindia@gmail.com	
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com	
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE	09/01/2025	
PUBLICATION DATE (U/S 11A)	25/11/2022	

#### Application Status

APPLICATION STATUS	<b>Application Awaiting Examination</b>
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#### Application Details

APPLICATION NUMBER	202121035022
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/08/2021
APPLICANT NAME	COLLEGE OF ENGINEERING, PUNE
TITLE OF INVENTION	A SYSTEM FOR MEASURING LENGTH OF PAPER OF A PAPER ROLL
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	02/08/2022
PUBLICATION DATE (U/S 11A)	10/02/2023
FIRST EXAMINATION REPORT DATE	15/02/2023
Date Of Certificate Issue	27/02/2026
POST GRANT JOURNAL DATE	06/03/2026
REPLY TO FER DATE	14/08/2023

#### Application Status

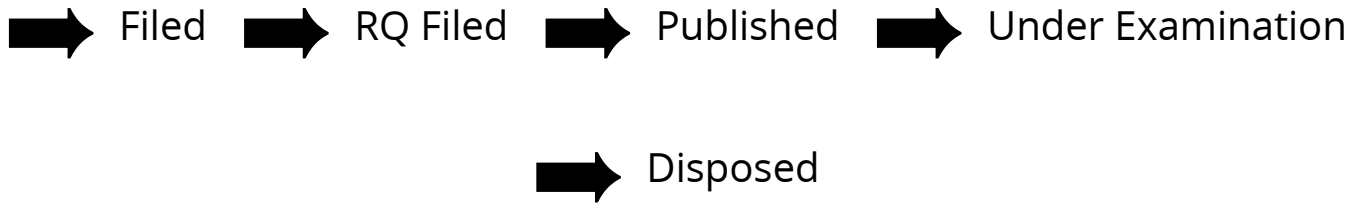
APPLICATION STATUS

**Granted Application, Patent Number  
:581954**

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