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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 : 011151879
SL No :



पेटेंट सं. / Patent No. : 409893
आवेदन सं. / Application No. : 2267/DEL/2014
फाइल करने की तारीख / Date of Filing : 08/08/2014
पेटेंटी / Patentee : THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित NANOPARTICLES HAVING HIGHLY TUNABLE PHYSICAL PROPERTIES AND METHOD OF SYNTHESIZING THE SAME नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अगस्त 2014 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 NANOPARTICLES HAVING HIGHLY TUNABLE PHYSICAL PROPERTIES AND METHOD OF SYNTHESIZING THE SAME as disclosed in the above mentioned application for the term of 20 years from the 8th day of August 2014 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 26/10/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, अगस्त 2016 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 8th day of August 2016 and on the same day in every year thereafter.



**INTELLECTUAL
PROPERTY INDIA**

एकस्व/PATENTS|अभिकल्प/DESIGNS|
व्यापार चिह्न/TRADE MARKS|भौगोलिक
उपदर्शन/GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

**भारत सरकार
GOVERNMENT OF INDIA**

एकस्व कार्यालय /THE PATENT OFFICE
बौद्धिक सम्पदा भवन / I.P.O. BUILDING
प्लॉट नं. 32/ PLOT NO. 32
सेक्टर -14/ SECTOR 14, द्वारका/ DWARKA
नई दिल्ली/NEW DELHI -110078
दूरभाष /Tel. No. : 011-25300200
फैक्स /Fax : 011-28034301/02/15
ई मेल /Email : delhi-patent@nic.in
वेबसाइट /Website:<http://ipindia.nic.in>

सं. \ No. 2267/DEL/2014

दिनांक \ Dated the 26/10/2022

सेवा मे, \ To :

Address of Service:- ANS IP MANAGMENT SERVICES, GOLDEN SQUARE SERVICED & VIRTUAL OFFICERS, 102, EDEN PARK, 20, VITTAL MALLYA ROAD, BANGALORE-560007, KARNATAKA, INDIA.

Email Id:- swati@ansipms.com

विषय :- पेटेंट आवेदन संख्या 2267/DEL/2014 के संबंध में अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर में प्रविष्टि की सूचना

Sub :- Intimation of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 2267/DEL/2014

महोदय/महोदया,

Sir/Madam,

आपको सूचित किया जाता है कि पेटेंट अधिनियम, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व 13/09/2022 को हुई सुनवाई] के उपरान्त एतद्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 26/10/2022 को पेटेंट रजिस्टर में कर दी गयी है।

This is to Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970 and Rules made thereunder [and hearing held on 13/09/2022] a patent is hereby granted and recorded in the Register of Patents on the 26/10/2022. The Patent Certificate is enclosed herewith.

पेटेंट संख्या \ Patent No	: 409893
आवेदक का नाम \ Name Of Applicant	: THE LNM INSTITUTE OF INFORMATION TECHNOLOGY
पेटेंट दिनांक \ Date of Patent	: 08/08/2014
पूर्विका तिथि \ Priority Date	: 08/08/2014
परीक्षण हेतु अनुरोध दाखिल करने की तिथि \ Filing date of Request for examination	: 04/10/2016
शीर्षक \ Title	: NANOPARTICLES HAVING HIGHLY TUNABLE PHYSICAL PROPERTIES AND METHOD OF SYNTHESIZING THE SAME
दावों की संख्या \ Number of claims	: 07

उपर्युक्त पेटेंट के अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल में किया जाएगा।

The grant of above mentioned patent will be published in the Official Journal of the patent Office under section 43 of the Act.

पेटेंट अधिनियम 1970 यथा संशोधित पेटेंट (संशोधन) नियम, 2005/ पेटेंट नियम, 2003 यथा संशोधित पेटेंट (संशोधन) नियम, 2016 की धारा 142 की उप-धारा (4) के प्रावधानों के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय में नवीकरण शुल्क जमा किया जाना चाहिए।

The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to the proviso in sub-section(4) of Section 142 of The Patents Act,1970, as amended by The Patents (Amendment) Act, 2005 / The Patents Rules, 2003 as amended by The Patents (Amendment) Rules, 2016.

Dr. Bhanumathi R

(नियंत्रक पेटेंट)

Controller of Patents

टिप्पणी / Note :

1. संशोधित नवीकरण शुल्क हेतु कृपया महानियंत्रक पेटेंट, अभिकल्प एवं व्यापार चिह्न की आधिकारिक वेबसाइट www.ipindia.gov.in पर उपलब्ध पेटेंट (संशोधन) नियम 2016 की प्रथम अनुसूची (शुल्क) देखें।

For revised renewal fees kindly refer to the First Schedule (fees) of The Patents (Amendment) Rules 2016 available on the official website of Controller General of Patents, Designs and Trade Marks www.ipindia.gov.in

2. कार्यालय द्वारा पेटेंट प्रमाणपत्र की कोई भी कागजी प्रति अलग से जारी नहीं की जाएगी।

No hard copy of Patent Certificate shall be issued separately by the office.



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

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



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

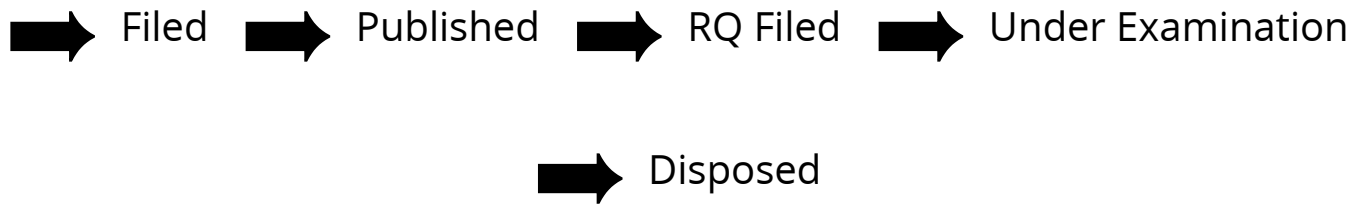
Application Details

APPLICATION NUMBER	2267/DEL/2014
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/08/2014
APPLICANT NAME	THE LNM INSTITUTE OF INFORMATION TECHNOLOGY
TITLE OF INVENTION	NANOPARTICLES HAVING HIGHLY TUNABLE PHYSICAL PROPERTIES AND METHOD OF SYNTHESIZING THE SAME
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	swati@ansipms.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	04/10/2016
PUBLICATION DATE (U/S 11A)	12/02/2016
REPLY TO FER DATE	18/03/2022

Application Status

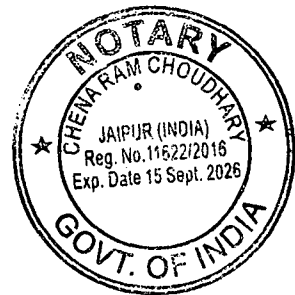
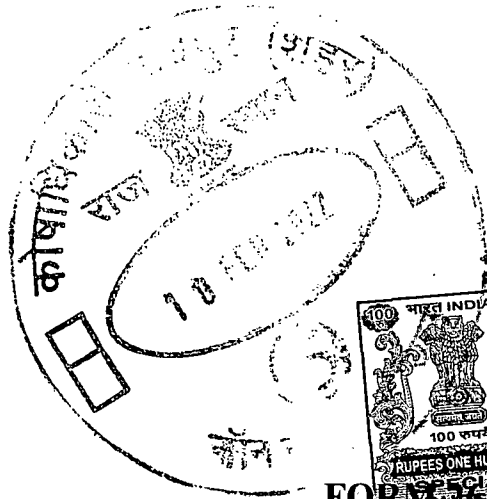
APPLICATION STATUS	Application in Hearing
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[View Documents](#)



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

FORM FOR AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OR PROCEEDING UNDER THE ACT



FORM FOR AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OR PROCEEDING UNDER THE ACT
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENT RULES, 2003

FORM FOR AUTHORIZATION OF A PATENT AGENT/OR ANY PERSON IN A MATTER OR PROCEEDING UNDER THE ACT
(See sections 127 and 132; rule 135)

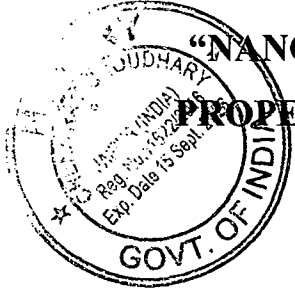
We, *The LNM Institute Of Information Technology*, of *INDIAN* nationality and having addressat *The LNM Institute of Information Technology, Department of Physics, Rupa ki Nangal, Sumel Jamdoli, Jaipur, Pin-302031, Rajasthan*

hereby authorise

patent agent **SWATI BURDE (IN/PA/1742)**, **Ankita Patel Bhat (IN/PA/3455)**, and **Abhishek Kumar Tiwari (IN/PA/4185)** having Indian Nationality from **ANS IP MANAGEMENT SERVICES**, a company organized and existing under the laws of India having addressat **Golden Square Serviced & Virtual Offices, 102, Eden Park, 20, Vittal Mallya Road, Bangalore -560001, KARNATAKA, INDIA** to act on our behalf for securing from the government of India letters patents under the above mentioned Act in respect of Patent application no. 2267/DEL/2014 titled

"NANOPARTICLES HAVING HIGHLY TUNABLE PHYSICAL PROPERTIES AND METHOD OF SYNTHESIZING THE SAME"

CONT.....



Swati Burde
SWATI BURDE
Authorized Patent Agent
IN / PA / 1742

ATTESTED
Chandra Ram Choudhary
NOTARY PUBLIC
GOVT. OF INDIA JAIPUR

02 MAR 2022



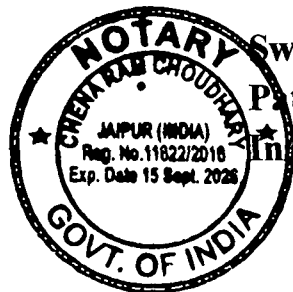
:: 2 ::

and in all matters and proceedings before the Controller of Patents or the Government of India in connection therewith or incidental thereto including renewal thereof, or of the application, specification or any other document filed in respect thereof, restoration thereof, or of change in our name, address or address for service and in general to do all acts of things [including appointment of a substitute or substitutes] as the said agent may deem necessary or expedient and request that all notices, requisitions and communications relating thereto may be sent to such agent at the above address.

I, hereby revoke all previous authorization, if any made, in respect of same matter or proceeding.

I, hereby assent to the action already taken by the said person in the above-matter.

Dated this 2nd day of March, 2022



Swati Burde
SWATI BURDE
Authorized Patent Agent
IN / PA / 1742

Swati Burde
Patent Agent
IN Pa-1742

Swati Burde
Authorized Patent Agent
IN / PA / 1742

Somnath Biswas
Somnath Biswas
Applicant for the invention 2/3/22

Mahesh Patange
Mahesh Patange
Applicant for the invention 2/3/22

ATTESTED

Ch
NOTARY PUBLIC
GOVT. OF INDIA JAIPUR

02 MAR 2022

ORIGINAL

08 AUG 2014

2267 DEL 14

FORM I THE PATENTS ACT 1970 (39 OF 1970) & The Patent Rules, 2003 APPLICATION FOR GRANT OF PATENT (See section 7,54 & 135 and rule 20 (1))		(FOR OFFICE USE ONLY)		
		Application No.	Received Rs.	Patent Office / New Delhi
		Filing Date:	CHEQUE NO. /	in Cash
		Amount of Fee Paid:	08 AUG 2014	DDO
		CBR No:		
		Signature:	Vide Entry No. 621	in the
			Register of Valuables	
1. Applicant(s) :		Cashier		
Name	Nationality	Address		
The LNM Institute Of Information Technology	INDIAN	Department Of Physics, Rupa-ki-Nangal Sumel, Jamdoli Jaipur-302031 Rajasthan India		
2. Inventor (s) :				
Name	Nationality	Address		
SOMNATH BISWAS	INDIAN	Department Of Physics, The LNM Institute Of Information, Technology, Rupa Ki Nangal, Sumel Jamdoli, Jaipur-302031, Rajasthan		
MAHESH PATANGE	INDIAN	Department Of Physics, The LNM Institute Of Information, Technology, Rupa Ki Nangal, Sumel Jamdoli, Jaipur-302031, Rajasthan		
3. Title: NANOPARTICLES HAVING HIGHLY TUNABLE PHYSICAL PROPERTIES AND METHOD OF SYNTHESIZING THE SAME				
4. ADDRESS FOR CORRESPONDENCE OF APPLICANT/AUTHORIZED PATENT AGENT IN INDIA: -				
SWATI BURDE ANS IP MANAGEMENT SERVICES, Golden Square Serviced & Virtual Offices, 102, Eden Park, 20, Vittal Mallya Road, Bangalore -560007, KARNATAKA, INDIA		Telephone No : +91 80 49016500 Mobile No. : +91 (0) 7259949508 E-mail : swati@ansipms.com		
5. Priority Particulars Of The Application(s) Filed In Convention Country				
Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention

NA	NA	NA	NA	NA
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6. Particulars For Filing Patent Cooperation Treaty (Pct) National Phase Application

International Application Number: NA	International filing date as allotted by the receiving office: NA
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7. Particulars for filing Divisional Application

Original (first) application number NA	Date of filing of Original (first) application NA
-------------------------------------------	------------------------------------------------------

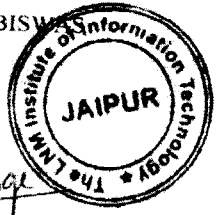
8. Particulars for filing Patent of Addition

Main application/ Patent Number NA	Date of Filing of main application NA
---------------------------------------	------------------------------------------

9. Declarations :

(i) **Declaration by the inventor(s)**
We, the above named inventors are the true & first inventors for this invention and declare that the applicant herein is our assignee or legal representative.

Signature : *Somnath Biswas*
Name : SOMNATH BISWAS
Dated :



Signature : *M. Patange*
Name : MAHESH PATANGE
Dated :

(ii) **Declaration by the applicant(s) in the convention country**

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

Signature : NA	Signature : NA
Name :	Name :
Designation :	Designation :
Dated :	Dated :

(iii) **Declaration by the applicant(s):**

- We, the applicant(s) hereby declare(s) that: -**
- I am in possession of the above mentioned invention
 - The complete specification relating to the invention is filed with this application
 - The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
 - There is no lawful ground of objection to the grant of the Patent to me/us.
 - I am/we are the assignee or legal representative of true & first inventors.
 - The application or each of the applications, particulars of which are given in Para-5 was the first application

- in convention country/countries in respect of my/our invention.
- I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
 - My/Our application in India is based on International Patent Application under Patent Cooperation Treaty (PCT) as mentioned in Para-6.
 - The application is divided out of my/our application particulars of which are given in Para-7 and pray that this application may be treated as deemed to have been filed on _____ under section 16 of the Act.
 - The said invention is an improvement in or modification of the invention particulars of which are given in Para-8.

10. Following are the attachments with the application:

- (a). Form 1 (2 copies)
- (b). Form 2 (Complete specification) (2 copies) [Total No. of pages including drawing sheets = 42; Total no. of claims = 7; Total No. of Drawing Sheets = 14]
- (c). Form 5 (Declaration as to Inventorship)(2 copies)
- (d). Form 26 (Power of authority) (1 copy)
- (d). Fees of Rs. 19,360/- in bank draft bearing no. 034301 Date 6/8/2014 on Axis Bank.

I hereby declare that to the best of my knowledge, information and belief the fact and matters stated herein are correct and I request that a patent may be granted to me for the said invention.

Dated this 6 day of August, 2014

To
The Controller of Patents
The Patent Office,
At Delhi



Swati Burde
(AGENT for the applicant)
For ANS IP MANAGEMENT SERVICES

FORM 3
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8
(See Section 8; rule 12)

We, **THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**, having Indian nationality and address at **Rupa Ki Nangal, Sumel, Jamdoli, Jaipur, Rajasthan-302031, India,**

hereby declare that we have not made any application for the same/substantially the same invention outside India.

OR

~~That We who have made this application no. _____ dated _____ alone, made for the same invention/substantially same invention, application for patent in the other countries, the particulars of which are given below:~~

Name of the country	Date of Application	Application No.	Status of the application	Date of Publication	Date of Grant
NA	NA	NA	NA	NA	NA

That the rights in the application has been assigned to **THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**.

I undertake that upto the date of grant of the patent by the Controller, I would keep him informed in writing the details regarding corresponding applications for patents filed outside India within six months from, the date of filing of such application.

Dated this 18th day of March, 2022

Swati Burde
Patent Agent
IN/PA/1742

To,
The Controller of Patents,
The Patent Office,
At Delhi

ORIGINAL

2267 DEL 14

08 AUG 2014

FORM 5
THE PATENTS ACT, 1970
(39 OF 1970)
&
THE PATENTS RULES, 2003
DECLARATION AS TO INVENTORSHIP
[See sec. 10(6) and rule 13(6)]

1. NAME OF APPLICANT(s): SOMNATH BISWAS, MAHESH PATANGE

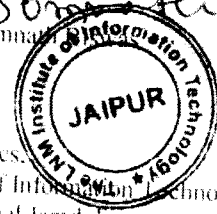
hereby declare that the true and first inventors of the invention disclosed in the complete specification filed herein are

2. INVENTORS

a) Name	:	Somnath Biswas
Nationality	:	Indian
Address	:	Department Of Physics, The LNM Institute Of Information Technology, Rupa Ki Nangal, Sumel Jamdoli, Jaipur, Pin-302031, Rajasthan

Dated this 2nd day of August, 2014

Name of the Signatory: *Somnath Biswas*



b) Name	:	Mahesh Patange
Nationality	:	Indian
Address	:	Department Of Physics, The LNM Institute Of Information Technology, Rupa Ki Nangal, Sumel Jamdoli, Jaipur, Pin-302031, Rajasthan

Dated this 2nd day of August, 2014

Name of the Signatory: *Patange*
Mahesh Patange

To,
The Controller of Patents
The Patent Office
At Delhi