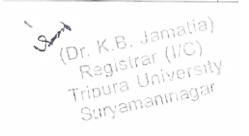
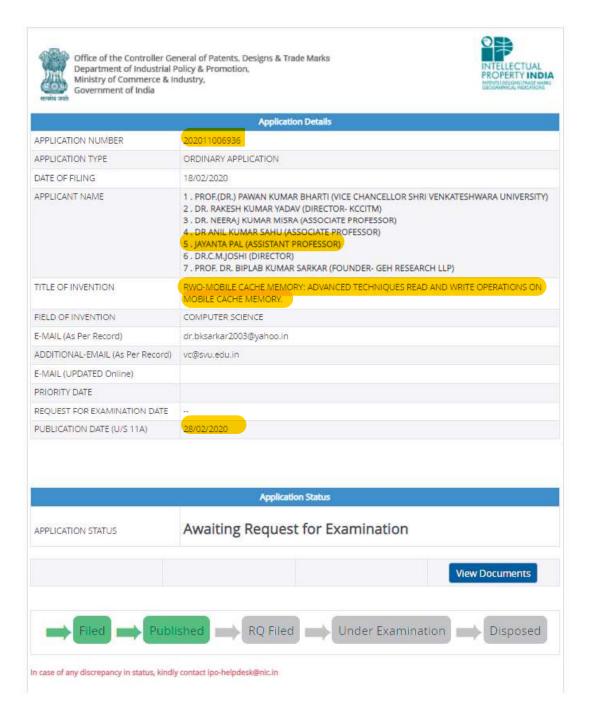
3.4.3 Number of Patents published/awarded during the last five years (10)

3.4.3.1: Total number of Patents published/awarded year wise during the last five years

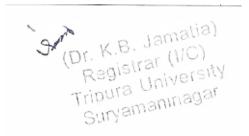
3.4.3.1: Total number of		,	Year of Award/publi cation of	,
Name of the Patenter	Patent Number	Title of the patent	patent	
		RWO-MOBILE CACHE MEMORY: ADVANCED TECHNIQUES READ AND WRITE OPERATIONS ON MOBILE CACHE		
Jayanta Pal	202011006936	MEMORY.	2020	
Shaon Ray Chaudhuri	201731003023	Bio-fertilizer production from bacterial consortium	2020	
		LSM- Quantum		
		Computing: LARGE DATABASES STORE INTO A VERY SMALL MEMORY USING QUANTUM COMPUTING AND AI- BASED		
Jayanta Pal	2020102068	PROGRAMMING	2020	
2019-20	2018-19	2017-18	2016-17	2015-16
3	0	0	0	0





Screenshot accessed from

https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus



FORM 1	(FOR OFFICE USE ONLY)
THE PATENTS ACT 1970(39 of 1970)	Application No:
&	Filing Date
	Amount of Fees Paid:
The Patents Rules, 2003	CBR NO:
APPLICATION FOR GRANT OF PATENT	Signature:
(See sections 7, 54 & 135 and rule 20(1)	
1. APPLICANTS REFERENCE /	
IDENTIFICATION NO. (AS ALLOTTED BY OFF	ICE)

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (🗸)		Convention ()		PCT-NP ()	
Divisional	Patent of	Divisional	Patent of	Divisional	Patent of
()	Addition (()	Addition (()	Addition (
)))

3A. APPLICANT(S):

Name	Country	Nationality	Address
	of Residence		
PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR SHRI VENKATESHWARA UNIVERSITY)	INDIA	AN INDIAN NATIONAL	A-905, GAUR ATULYAM SOCIETY OMICRON-1, GREATER NOIDA., UP-201310, INDIA E-MAIL: padutt@gmail.com E-mail: vc@svu.edu.in Pan no: AGZPB8342B
DR. RAKESH KUMAR YADAV (DIRECTOR- KCCITM)	INDIA	AN INDIAN NATIONAL	N-471, JALWAYU VIHAR, GREATER NOIDA, UP-201306, INDIA. E-MAIL: er.rakeshyadav@gmail.com PAN NO: ABVPY1350K
DR. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR)	INDIA	AN INDIAN NATIONAL	Office Address: BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY (BIET), HYDERABAD-501510, TELANGANA, INDIA. Residence Address: 538KHA/391 DEEN DAYAL NAGAR KHADRA SITAPUR ROAD LUCKNOW 226020, UTTAR PRADESH, INDIA. Email ID: neeraj.mishra3@gmail.com
DR ANIL KUMAR SAHU (ASSOCIATE PROFESSOR)	INDIA	AN INDIAN NATIONAL	Office Address: BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY (BIET), HYDERABAD-501510, TELANGANA, INDIA. Residence Address: HIG-I/43,NIRMALA KUNJ, OLD BORSI, M.P.H.B BORSI COLONY DURG, CHHATISGARH-491001, INDIA. Email ID: anilsahu82@gmail.com
JAYANTA PAL (ASSISTANT PROFESSOR)	INDIA	AN INDIAN NATIONAL	Office Address: - DEPARTMENT OF INFORMATION TECHNOLOGY, ACADEMIC BUILDING -9, TRIPURA UNIVERSITY, SURYAMANINAGAR, AGARTALA, TRIPURA, 799022. Resident Address: MIRZA, PO-



			UPENDRANAGAR, KAKRABAN, GOMATI TRIPURA. 799105.
			,
			E-mail: jayantapal@tripurauniv.in
			PAN: COPPP9774R
	INDIA		R.J.S.P.M.,S
DR.C.M.JOSHI		AN	INSTITUTE OF COMPUTER &
(DIRECTOR)		INDIAN	MANAGEMENT RESEARCH, DUDULGAON,
		NATIONAL	PUNE, MH, INDIA.
	INDIA	AN	GEH RESEARCH LLP
		INDIAN	ADDRESS: GEH RESEARCH, G-12, LAVELLE
		NATIONAL	ROAD, BENGALURU, KARNATAKA-560001,
			INDIA.
			ADDRESS: GEH RESEARCH, A-19-21,
			IHONBASHIHAKOZAKICHŌ, CHŪŌ-KU,
PROF. DR. BIPLAB			TŌKYŌ-TO-103-0015, JAPAN.
KUMAR SARKAR			ADDRESS: GEH RESEARCH, E-101
(FOUNDER- GEH			KITCHAWAN RD, YORKTOWN HEIGHTS,
RESEARCH LLP)			NY 10598, UNITED STATES.

3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]

Natural Person (✓)	Other than Natural Person ()
	Small Entity (Startup Others ()

4. INVENTOR(S): [Please tick (✓) at the appropriate category]

C J L		0 7 1
Are all the inventor(s)	Yes (V)	No ()
same as the		
applicant(s) named		
above?		
70 W 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•

If "No", furnish the details of the inventor(s) N.A

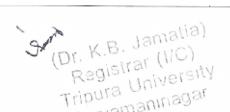
4888	484		
Name	Nationality	Country of	Address
		Residence	
NA	NA	NA	NA

5. TITLE OF THE INVENTION:

RWO-Mobile Cache Memory: ADVANCED TECHNIQUES **R**EAD AND **W**RITE **O**PERATIONS ON MOBILE CACHE MEMORY.

6. AUTHORISED REGISTERED		NA
PATENT AGENT(S)		
ADDITIONAL PATENT AGENTS	NA	

7. ADDRESS FOR SERVICE OF APPLICANT/	Mobile No.: 8059794469
PATENT AGENT(S) IN INDIA	E-mail:
PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR	dr.bksarkar2003@yahoo.in



SHRI VENKATESHWARA UNIVERSITY) Address: A-905, GAUR ATULYAM SOCIETY OMICRON-1,

GREATER NOIDA., UP-201310, INDIA

E-MAIL: padutt@gmail.com E-mail: vc@svu.edu.in Pan no: AGZPB8342B

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION: N.A

Country	Appln. Number	Filing Date	Name of the Applicant	Title of the Invention	IPC (as classified in the convention country)
NA	NA	NA	NA	NA	NA

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT):

International application	International filing date as allotted by the
number	receiving office.
NA	NA

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION: N.A

Original (first) application number	Date of filing of Original (first)		
	application		
N.A.	N.A.		

11.IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT: N.A

Main application / patent Number	Date of filing of main application		
N.A.	N.A.		

12. DECLARATIONS:

(i) **Declaration by the Inventor:**

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above named inventor are the true & first inventor for this invention and declare that the applicant herein is my assignee or legal representative:

NA

(ii) Declaration by the applicant/s in the convention country:



(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

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

(iii) **Declaration by the applicants:**

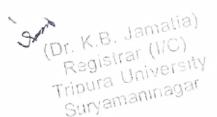
We, the applicants hereby declare that: -

- 1. We are in possession of the above-mentioned invention.
- 2. The **Complete Specification** relating to the invention is filed with this application.
- 3. 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 us before the grant of patent to us: **N.A.**
- 4. There is no lawful ground of objection to the grant of the patent to me/us.
- 5. We are the assignees or legal representatives of true and first inventors:
- 6. The application or each of the applications, particulars of which are given in Para 8 was the first application in convention country/countries in respect of our invention: **N.A.**
- 7. We claim the priority from the above mentioned application 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 us or by any person from which we derive the title: **YES**
- 8. Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para-9: **N.A.**
- 9. The application is divided out of our application particulars of which is given in Para-10 and prays that this application may be treated as deemed to have been filed on N.A. Under sec.16 of the Act: **N.A.**
- 10. The said invention is an improvement in or modification of the invention particulars of which are given in Para-11:**N.A**.

FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) **Form 2**

Item	Details	Fee	Remarks
Complete	No. of pages:		
specification) #			
	No. of claims:		
Claim(s)	No. of pages:		
Abstract	No. of pages:		
Drawing(s)	No. of drawings:		
	No. of pages:		



In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

- 1. Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
- 2. Sequence listing in electronic form N.A
- 3. Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
- 4. Statement and Undertaking on Form-3
- 5. Declaration of Inventor ship on Form-5
- 6. Request For Publication Form9, 2750.Rs
- 7. Form18 Examination Request, 4400.Rs
- 8. Power of Authority
- 9. Other Form 4 to 31 According to needed can fill.

Total fee Rs	/-	in Cash /	Banker's	Cheque	/Bank	Draft	bearing	
No								
DateBank.								

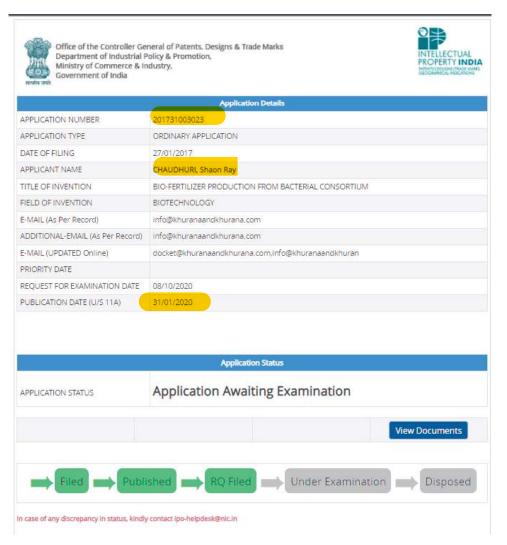
We hereby declare that to the best of my knowledge, information and belief the facts and matters stated herein are correct and I request that a patent may be granted to me for the said invention.

Dated: 15/2/2020

PROF.(DR.) PAWAN KUMAR BHARTI (VICE CHANCELLOR SHRI VENKATESHWARA UNIVERSITY)
DR. RAKESH KUMAR YADAV (DIRECTOR- KCCITM)
DR. NEERAJ KUMAR MISRA (ASSOCIATE PROFESSOR)
DR. ANIL KUMAR SAHU (ASSOCIATE PROFESSOR)
JAYANTA PAL (ASSISTANT PROFESSOR)
DR.C.M.JOSHI (DIRECTOR)
PROF. DR. BIPLAB KUMAR SARKAR (FOUNDER- GEH RESEARCH LLP)

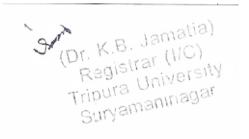
To,
The Controller of Patent,
The Patent Office, at





Screenshot Accessed from:

https://ipindiaservices.gov.in/PatentSearch/PatentSearch/ViewApplicationStatus



FORM 18

The Patents Act , 1970 (39 of 1970)

&

The Patents Rule, 2003

REQUEST / EXPRESS REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT

[See section 11B and rules 20 (4) (ii), 24B (1) (i)]

(FOR OFFICE USE ONLY)

RQ. No:

Amount of fee Paid:

CBR No Signature:

1. APPLICANT(S)/ OTHER INTERESTED PERSON(S)

(a) Name: CHAUDHURI, Shaon Ray

(b) Nationality: India

(c) Address: Department of Microbiology, Tripura University, Suryamaninagar, West Tripura-799022, India.

(d) Date of publication of the application under section 11A: 31 Jan 2020

2. STATEMENT IN CASE OF REQUEST FOR EXAMINATION MADE BY ANY THE APPLICANT(S)

I/We CHAUDHURI, Shaon Ray hereby request that my/our application for patent no. 201731003023 dated 27/01/2017 for the invention BIO-FERTILIZER PRODUCTION FROM BACTERIAL CONSORTIUM shall be examined under sections 12 and 13 of the act.

ADDRESS FOR SERVICE

Mr. Tarun Khurana, Regd. Patent Agent (INPA-1325);

Ms. Meenakshi, Regd. Patent Agent (INPA-1609)

Mr. AbhishekPandurangi, Regd. Patent Agent (INPA-1722) and

Mr. Antony David, Regd. Patent Agent (INPA- 2066)

Khurana and Khurana, Advocates and IP Attorneys, E-13, UPSIDC, Site-IV, Behind-Grand Venice, Kasna Road, Greater Noida 201310, UP, National Capital Region, India.

Telephone No: 120 4296878/4909201

Fax No. 0120-2399113

Mobile No. 9810617992, 9910307992 E-mail: tarun@khuranaandkhurana.com

info@khuranaandkhurana.com

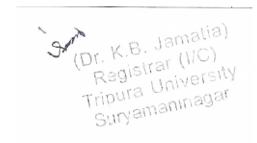
Dated this: 08th day of October, 2020

Signature

Tarun Khurana (INPA-1325)

Тο

[The Controller of Patents], The Patent Office, At Kolkata



FORM 5

THE PATENT ACT, 1970

(39 OF 1970)

&

The Patents Rules, 2003

DECLARATION AS TO INVENTORSHIP

[See section 10(6) and rule 13(6)]

1. NAME OF APPLICANT (S)

CHAUDHURI, Shaon Ray of address Department of Microbiology, Tripura

University, Suryamaninagar, West Tripura-799022, India.

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my / our application numbered 201731003023 Dated 27th January, 2017, are

2. INVENTOR (S)

1. a. Name: CHAUDHURI, Shaon Ray

b. Nationality: IN

c. Address: Department of Microbiology, Tripura University, Suryamaninagar, West Tripura-799022,

India.

2. a. Name: THAKUR, Ashoke Ranjan

b. Nationality: IN

c. Address: A-1, Vidya Sagar Niketan, Salt Lake, Kolkata-700066, West Bengal, India.

3. a. Name: GANTAYET, Lalit Mohan

b. Nationality: IN

c. Address: 4A, Divyajyoti, Plot-51, Sector-29, Vashi, Navi Mumbai – 400703. India.

Dated this 22nd day of January, 2018

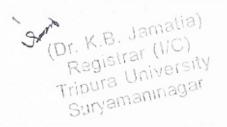
Signature :-

Name: Tarun Khurana (IN/PA-1325)

Khurana & Khurana, Advocates and IP Attorneys

3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT (S) IN THE CONVENTION COUNTRY:-

-NA-



4. STATEMENT

I/We assent to the invention referred to in the above declaration, being included in the provisional specification filed in pursuance of the stated application.

1. a. Name: GANTAYET, Lalit Mohan

b. Nationality: IN

c. Address: 4A, Divyajyoti, Plot-51, Sector-29, Vashi, Navi Mumbai – 400703. India

Lalit Mohan Ganh Signature of Additional Inventor:

Name: GANTAYET, Lalit Mohan

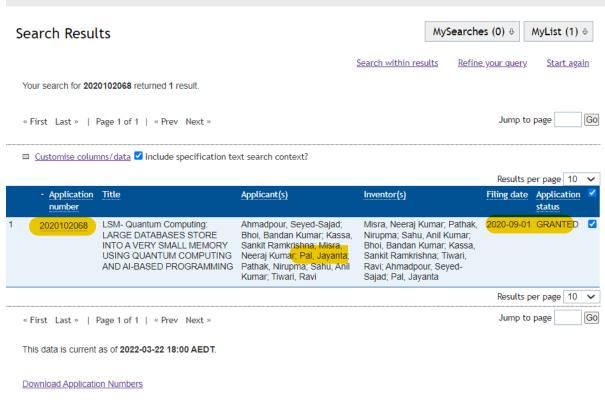
To,

The Controller of Patent

The Patent Office, at Kolkata

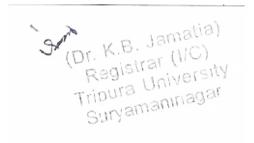
(Dr. K.B. Jamatia)
(Dr. K.B. Jamatia)
(Dr. K.B. Jamatia)
(Registrar (I/C)
(Registrar (I/C)
(Tripura University
Suryamaninagar





Screenshot accessed from:

http://pericles.ipaustralia.gov.au/ols/auspat/quickSearch.do?queryString=2020102068&resultsPerPage=





CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020102068

The Commissioner of Patents has granted the above patent on 30 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Neeraj Kumar Misra of Department of Electronics and Comm., Bharat Institute of Engineering and Tech Hyderabad Telangana 501510 India

Nirupma Pathak of 538KHA/391 Deen Dayal Nagar Khadra Sitapur Road Lucknow 226020 Uttar Pradesh India

Anil Kumar Sahu of Department of Electronics and Comm., Bharat Institute of Engineering and Tech Hyderabad 501510 Telangana India

Bandan Kumar Bhoi of Department of Electronics and Telecomm., Veer Surendra Sai University of, Technology Burla, Odisha 768018 India

Sankit Ramkrishna Kassa of B-112, Jogeshwari baug Society, Arbudanagar Road, ODHAV, Ahmedabad Gujarat-382415 India

Ravi Tiwari of Aster - 11, Chauhan Green Valley, Junwani, Durg Chhattisgarh-490020 India

Seyed-Sajad Ahmadpour of Khozestan Province Ahvaz Street Padad p 37 Iran, Islamic Republic of

Jayanta Pal of Department of Information Technology, Tripura University, Suryamaninagar Tripura-799022 India

Title of invention:

LSM- Quantum Computing: LARGE DATABASES STORE INTO A VERY SMALL MEMORY USING QUANTUM COMPUTING AND AI-BASED PROGRAMMING

Name of inventor(s):

Misra, Neeraj Kumar; Pathak, Nirupma; Sahu, Anil Kumar; Bhoi, Bandan Kumar; Kassa, Sankit Ramkrishna; Tiwari, Ravi; Ahmadpour, Seyed-Sajad and Pal, Jayanta

Term of Patent:

Eight years from 1 September 2020

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 30th day of September 2020

Commissioner of Patents



Extracts from the Patents Act, 1990

Sect 120(1A)

Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 Application for relief from unjustified threats

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
 - (a) a declaration that the threats are unjustifiable; and
 - (b) an injunction against the continuance of the threats; and
 - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A

Threats related to an innovation patent application or innovation patent and courts power to grant relief.

Certain threats of infringement proceedings are always unjustifiable.

- (1) If:
 - (a) a person:
 - (i) has applied for an innovation patent, but the application has not been determined; or
 - (ii) has an innovation patent that has not been certified; and
 - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 Dictionary

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph
 101E(e) in respect of the patent