



Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

GEOGRAFIII CAE INDICATIONS		CONTRACT PROPERTY STATES OF STREET
	Application Details	
APPLICATION NUMBER	5582/CHE/2015	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	18/10/2015	
APPLICANT NAME	Dr. M.G.R Educational and Research Institut	e
TITLE OF INVENTION	A PREPAID SMART METER SYSTEM FOR POW MONITORING	VER CONSUMPTION AND
FIELD OF INVENTION	PHYSICS	
E-MAIL (As Per Record)	trinitypatsol@gmail.com	
ADDITIONAL-EMAIL (As Per Record)	trinitypatsol@gmail.com	
E-MAIL (UPDATED Online)		
PRIORITY DATE	NA	
REQUEST FOR EXAMINATION DATE	14/10/2019	
PUBLICATION DATE (U/S 11A)	24/11/2017	

Application Status		
APPLICATION STATUS	Application Awaiting Examination	

FORM 18 THE PATENTS ACT, 1970 (39 OF 1970)

The patents Rules, 2003 REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT [See section 11B and rule 20(4)(ii), 24B(1)(i)]

(FOR OFFICE USE ONLY)

RQ. No:

Filing Date:

Amount of Fee Paid:

CBR No. Signature:

APPLICANTS:

1. Dr. MGR Educational And Research institute,

Maduravoyal, Chennai,

Tamil Nadu, India - 600095.

E-mail: patent@drmgrdu.ac.in

Mobile No. +91 9790402543

We hereby request that our application for patent no. IN201741038992 filed on 2-Nov-2017 for the invention titled "WATTSMAP-APP FOR SMART ROOM MONITORING" shall be examined under sections 12 and 13 of the Act.

ADDRESS FOR SERVICE:

The Registrar,

Dr. MGR Educational And Research institute,

Maduravoyal, Chennai,

Tamil Nadu, India - 600095.

E-mail: patent@drmgrdu.ac.in

Mobile No. +91 9790402543

Dated this 29th day of July 2021

C. B. Palamide

For Dr. MGR Educational And Research institute

Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE (Deemed to be University)
Periyar E.V.R. High Road, Maduravoyal, Chennai 600 095

The Controller of Patents,

To

The Patent Office at Chennai

FORM 5 THE PATENTS ACT, 1970 (39 of 1970) & THE PATENT RULES, 2003 Declaration as to inventorship

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

We, Dr.MGR Educational and Research Institute University, Maduravoyal, Chennai 600095, Tamil Nadu, hereby declare that the true and first inventors disclosed in the Complete specification filed in pursuance of our application for the invention titled "WattsMAP-App for Smart Room Monitoring" are 1. Dr. E. Sheeba Percis, Department of EEE, Dr.MGR Educational and Research Institute University, Maduravoyal, Chennai 600095, Tamil Nadu, 2. A.Nalini, Department of EEE, Dr.MGR Educational and Research Institute University, Maduravoyal, Chennai 600095, Tamil Nadu, 3. S.T.Rama, Department of EEE, Dr.MGR Educational and Research Institute University, Maduravoyal, Chennai 600095, Tamil Nadu, 4. J.JAYARAJAN, Department of EEE, Dr.MGR Educational and Research Institute University, Maduravoyal, Chennai 600095, Tamil Nadu and 5. T.Jenish, Department of EEE, Dr.MGR Educational and Research Institute University, Maduravoyal, Chennai 600095, Tamil Nadu Indian Nationals.

Dated this the 01st day of November 2017.

Senthil Kumar B Agent for the applicant IN/PA-1549

To The Controller of Patents The Patent Office at Chennai (12) PATENT APPLICATION PUBLICATION

(21) Application No.201741038869 A

(19) INDIA

(22) Date of filing of Application :01/11/2017

(43) Publication Date: 08/11/2019

(54) Title of the invention: LOW COST, PETROL - SOLAR BASED HYBRID ELECTRIC BI-CYCLE

(51) International classification	:B60K16/00	(71)Name of Applicant :
(31) Priority Document No	;NA	1)Dr.M.G.R.Educational and Research Institute
(32) Priority Date	;NA	Address of Applicant : Maduravoyal, Chennai, Tamil Nadu,
(33) Name of priority country	;NA	India 600095 Tamil Nadu India
(86) International Application No	:NA	(72)Name of Inventor:
Filing Date	:NA	1)V Arumugam
(87) International Publication No	: NA	2)J. Jayarajan
(61) Patent of Addition to Application Number	:NA	3)A.Nalini
Filing Date	:NA	4)Dr. E. Sheeba Percis
(62) Divisional to Application Number	:NA	8
Filing Date	:NA	

(57) Abstract:

Many electric bi-cycles are designed with the combination of electric motor 105 and internal combustion engine 101 but the existing designs are cost effective and it does not have any backup mechanism installed in it which can be used during the non-functionality of engine 101 and motor 105. A novel Hybrid Electric Vehicle (HEV) is designed with three different mode of sources are Internal Combustion Engine (ICE) 101, Electrical DC motor 105 with solar panel 108 and manual pedalling 104 for operating the hybrid bi-cycle with less emission. Moreover, this hybrid electric bi-cycle is driven by engine power and solar power (Fig.1).

No. of Pages: 16 No. of Claims: 10





Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

Application Details		
APPLICATION NUMBER	201841001276	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	11/01/2018	
APPLICANT NAME	1 . KAMATCHI.C 2 . RAJESWARY HARI 3 . K. SUJATHA 4 . NALLAMILLI. P.G BHAVANI 5 . SENTHIL KUMAR 6 . KANIMOHZI.S 7 . MAHALAKSHMI.S	
TITLE OF INVENTION	A STUDY OF MTT ASSAY ON FIBROBLASTS CELL LINE L929 AND ANALYSIS THE DATA WITH IMAGE PROCESSING METHOD	
FIELD OF INVENTION	BIOTECHNOLOGY	
E-MAIL (As Per Record)		
ADDITIONAL-EMAIL (As Per Record)	sbreddy9999@gmail.com	
E-MAIL (UPDATED Online)		
PRIORITY DATE		
REQUEST FOR EXAMINATION DATE		
PUBLICATION DATE (U/S 11A)	11/01/2019	

Application Status		
APPLICATION STATUS	Awaiting Request for Examination	

View Documents

Department of Electrical and Electronics Engineering

13

Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded



FORM 5 THE PATENTS ACT, 1970 (39 of 1970)

THE PATENTS RULES, 2003

DECLARATION AS TO INVENTORSHIP

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

PNO: 201841001276

NAME OF APPLICANT(S): KAMATCHI. C, RAJESWARY HARI, K. SUJATHA, NALLAMILLI. G BHAVANI & K. SENTHIL KUMAR, S. MAHALAKSHMI & S.KANIMOZHI

Hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application number

dated

2. INVENTORS

Name	Nationality	Address	Signature
KAMATCHI, C	INDIAN	Associate Professor, Deputy HoD-Biotechnology Department of Biotechnology	Homathi.
D. 100		Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	Von
RAJESWARY HARI	INDIAN	Head and Professor, Department of Biotechnology Dr.MGR Educational & Research Institute,	a selevising
IZ OLI IAMILA		EVR Periyar High Road, Maduravoyal, Chennai	Kal 11
K. SUJATHA	INDIAN	Center for Electronics, Automation and Industrial Research (CEAIR), EEE Dept., Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	K. Gyath
NALLAMILLI. P.G BHAVANI	INDIAN	Research Scholar, Dept. of EEE, Center for Electronics, Automation and Industrial Research (CEAIR), Dr. M.G.R. Educational Research Institute.	Sharab
K. SENTHIL KUMAR	INDIAN	EVR Periyar High Road Chennai, India. Professor, Dept. of ECE Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	V. Mury
S.KANIMOZHI	INDIAN	2017 Batch, B.Tech Biotechnology, Register number 131171101015 Department of Biotechnology Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	B
S.MAHALAKSHMI	INDIAN	2017 Batch, B.Tech Biotechnology, Register number 131171101020 Department of Biotechnology Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	Halular.

Dated this

Signature

Name of signatory

For

2A, SGS Flats, No.7, Loganathan Street, West K.K. Nagar, Chennai-600078.

To

The Controller of Patent, The Patent Office,

Intellectual Property Office Building, PATEN G.S.D. Road Guindy, Chennai 1600032, India. 7 / 01 / 2019





Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

Application Details			
APPLICATION NUMBER 201741038408			
APPLICATION TYPE	ORDINARY APPLICATION		
DATE OF FILING	30/10/2017		
APPLICANT NAME	Dr. M.G.R. Educational and Research Institute		
TITLE OF INVENTION	DYNAMIC CATALYTIC CONVERTER IN A MULTI CYLINDER SPARK IGNITION ENGINE TO REDUCE THE LIGHT - OFF TIME		
FIELD OF INVENTION	METALLURGY		
E-MAIL (As Per Record)			
ADDITIONAL-EMAIL (As Per Record)	patent@drmgrdu.ac.in		
E-MAIL (UPDATED Online)			
PRIORITY DATE			
REQUEST FOR EXAMINATION DATE	09/02/2021		
PUBLICATION DATE (U/S 11A)	08/11/2019		

Application Status			
APPLICATION STATUS	Application Awaiting	g Examination	
		View Documents	

Filed Published RQ Filed Under Examination

Department of Mechanical Engineering

Key Indicator-3.4.3 Research Publications and Awards wards wards wards and Awards wards wards and Awards wards w

Department of Mechanical Engineering Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded

27





Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

Application Details			
APPLICATION NUMBER	201741038871		
APPLICATION TYPE	ORDINARY APPLICATION		
DATE OF FILING	01/11/2017		
APPLICANT NAME	Dr.M.G.R.Educational and Research Institute		
TITLE OF INVENTION	UTILISE WASTE WATER FROM A/C TO WIND SHIELD CLEANING		
FIELD OF INVENTION	ELECTRICAL		
E-MAIL (As Per Record)			
ADDITIONAL-EMAIL (As Per Record)	patent@drmgrdu.ac.in		
E-MAIL (UPDATED Online)			
PRIORITY DATE			
REQUEST FOR EXAMINATION DATE			
PUBLICATION DATE (U/S 11A)	08/11/2019		

Application Status		
APPLICATION STATUS	Awaiting Request for Examination	
	View Documents	

Filed Published RQ Filed Under Examination

Department of Mechanical Engineering Disposed 24
Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded

6-Sep-2019/77797/201941036236/OTHERS

Within time

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Vikas Asawat
Patent Agent and Advocate
H No 3/183, Ganesh Talab

Basant Vihar, Kota Rajasthan Pin 324009

Email: vsasawat@gmail.com

Ph No.: 0744- 2401322 Mobile: 9915231179

Ref: 201941036236 dated 09/09/2019

The Controller of Patents Intellectual Property Office Chennai 600032

Sub: Submission of Form 5 for Patent Application no. 201941036236 dated 09/09/2019

Dear Sir,

In continuation of Patent Application no. 201941036236 dated 09/09/2019, please find attached the following:

1) Form 5 (Copy already filed vide e-filing)

Thanking you,

Dated - 09/09/2019

Yours faithfully

Vikas Asawat INPA 1407

Patent Agent - On the behalf of Applicants

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 Dr. V. MOHANAVEL, Dr. M. RAVICHANDRAN, Dr. P. APPLICANT(S) GANESHAN, Mr. S. SURESH KUMAR, Mrs. S. JEYA BHARATHI,

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 201941036236 dated 09/09/2019 is/are

2. INVENTOR(S)

Name	Country	Nationality	Address
Dr. K.RAJAN	India	India	S/O N.KUPPUSAMY, PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, DR. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, PERIYAR E.V.R. HIGH ROAD, MADURA VOYAL, CHENNAI- 600095, TAMIL NADU, INDIA
Dr. K.S.ASHRAFF ALI	India	India	S/O K.B. SUBAN, ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, C.ABDUL HAKEEM COLLEGE OF ENGINEERING AND TECHNOLOGY, MELVISHARAM-632509, TAMIL NADU, INDIA
Dr. M.MOHAMED ABDUL HAFEEZ	India.	India	S/O H.MOHAMED SAMIULLAH, PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, V.S.B. ENGINEERING COLLEGE, KARUR-639111, TAMIL NADU, INDIA
Dr. S. SARAVANA KUMAR	India	India	S/O K. SINGARAM, PROFESSOR AND HEAD, DEPARTMENT OF AUTOMOBILE ENGINEERING, FATIMA MICHAEL COLLEGE OF ENGINEERING AND TECHNOLOGY, MADURAI-625020, TAMIL NADU, INDIA
Mr.	India	India	S/O C.JAYARAJAN, ASSISTANT

J.VAIRAMUTHU			PROFESSOR, DEPARTMENT OF MECHANICAL
			ENGINEERING, SETHU INSTITUTE OF
•			TECHNOLOGY, VIRUDHUNAGAR- 626115,
			TAMILNADU, INDIA
			S/O N. VIJAYARAJAN, ASSISTANT
Mr. V.ANANDA			PROFESSOR, DEPARTMENT OF MECHANICAL
NATARAJAN	India	India	. ENGINEERING, SETHU INSTITUTE OF
INATANAJAN		ļ	TECHNOLOGY, VIRUDHUNAGAR- 626115,
			TAMIL NADU, INDIA
D. V.			PS/O P.VINAYAGAM, NO, 8, PERUMAL KOVIL
Dr. V.	India	India	STREET, PERIYA SEKKANUR, USSOOR,
MOHANAVEL			VELLORE - 632105, TAMIL NADU, INDIA

Dated this. 09/09/2019 Day of 2019

VIKAS ASAWAT

PATENT AGENT & ADVOCATIone of the signatory

3. DECLATRATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:-NOT APPLICABLE

We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).

Dated this. 09/09/2019. Day of 2019

Signature

Signature

PATENT AGENT & ADVOCATE ne of the signatory

4. STATEMENT (to be signed by the additional inventor(s) not mentioned in the application form) NOT APPLICABLE

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

Dated this(Final Payment Date): 09/09/2019

Signature .

Name of the signatory

VIKAS ASAWAT
PATENT AGENT & ADVOCATE

FORM 5

THE PATENTS ACT, 1970

(39 of 1970)

&

The Patent Rules, 2003

DECLARATION AS TO INVENTORSHIP

[See Section 10(6) AND RULE 13(6)]

1. NAME OF APLICANT(S): T. Panneerselvam, 23/57 Pillayar Koil Street, Kuppinayakan Patti, Bodinayakanur-625 513, Theni District, Tamilnadu, India, hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of our Provisional Application No.201841049909, Dated 31st December 2018 are

2. INVENTOR (S)

. INVENTOR (S)		
Name	Nationality	Address
Dr. T. PANNEERSELVAM	INDIAN	BIOSCI TRUST,
		23/57 Pillayar Koil Street,
		Kuppinayakan Patti,
		Bodinayakanur-625 513
		Theni District, Tamilnadu, India
Dr. P. MURALI DHARAN	INDIAN	4/3 B 1 st Main Road
		Mummoorthy Avenue, Kaspapuram,
		Chennai-600126
		Tamilnadu, India
Dr. N. HARIKRISHNAN	INDIAN	Faculty of Pharmacy,
		Dr. M.G.R. Educational and research Institute
		(Deemed to be University), A.C.S. Medical
		College and Hospital Campus,
		Vleappanchavadi, Chennai-600095
		Tamilnadu, India
Dr. A.	INDIAN	Department of Pharmaceutical Technology,
SHANMUGARATHINAM		Bharathidasan Institute of Technology,
		Anna University
		Tiruchirappalli-620024, Tamilnadu, India

Dated this. Dated this 31st December 2018

Signature:

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

We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).

Dated this.. day of ..

Signature: - Name of the signatory:

4. **STATEMENT** (to be signed by the additional inventor(s) not mentioned in the application form) We assent to the invention referred to in the above declaration, being included in the complete specification filed in pursuance of the stated application.

Dated this 31st December 2018

aymand

Signature of the additional inventor(s): -

Name: - THEIVENDREN PANNEERSELVAM

To.

The Controller of Patent

The Patent Office, at Chennai

Note:-

- *Repeat boxes in case of more than one entry.
- *To be signed by the applicants(s) or by authorized registered patent agent otherwise where mentioned
- *Name of the applicant should be given in full, family mane in the beginning.
- *Complete address of the applicant should be given stating the postal index no./code, state and country.
- *Strike out the column which is/are not applicable.

3.4.3. Patent Annexures

```
(12) PATENT APPLICATION PUBLICATION
                                                                            (21) Application No.201841049909 A
(19) INDIA
(22) Date of filing of Application :31/12/2018
                                                                            (43) Publication Date : 03/07/2020
(54) Title of the invention: SYNTHESIS OF 5- SUBSTITUTED BENZYLIDENE-4,6-DICYCLOPROPYLPYRIMIDINE-2(5H)-THIONE DERIVATIVES
                                                     :C07D0417140000
                                                                             (71)Name of Applicant :
1)Dr. T. PANNEERSELVAM
                                                     C07D0413120000,
                                                                             Address of Applicant BIOSCI TRUST 23/57 Pillayar Koil
Street, Kuppinayakan Patri, Bodinayakanur-625 513 Theni
District, Tamilnadu, India Tamil Nadu India
(51) International classification
                                                    C07D0413140000,
                                                     C07D0519000000
                                                    C07D0241440000
(31) Priority Document No
                                                                             72)Name of Inventor :
                                                                              1)Dr. T. PANNEERSELVAM
2)Dr. P. MURALI DHARAN
(32) Priority Date
(33) Name of priority country
                                                     NA
NA
(86) International Application No
Filing Date
(87) International Publication No
(61) Patent of Addition to Application Num
                                                     NA
NA
                                                                              3)Dr. N. HARIKRISHNAN
                                                                              4)Dr. A. SHANMUGARATHINAM
                                                     NA
                                                    er:NA
Filing Date
(62) Divisional to Application Number
                                                     NA
NA
     Filing Date
                                                     :NA
(57) Abstract:
The present application relates to a novel series of 5-substituted benzylidene-4,6-dicyclopropylpyrimidine-2(5H)-thione and
pharmaceutically acceptable salts thereof, and further relates to a method of using such compounds, and process of preparing such
compound.
No. of Pages; 22 No. of Claims . 3
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Leno

_, 00-,00-,--

To,

The Controller of Patents,
Patent Office Chennai,
Boudhik Sampada Bhawan,
G.S.T. Road, Guindy, Chennai-600032



Dear Sir/Madam,

Sub.:- Submission of Online Application Forms and original POA (Form 26)

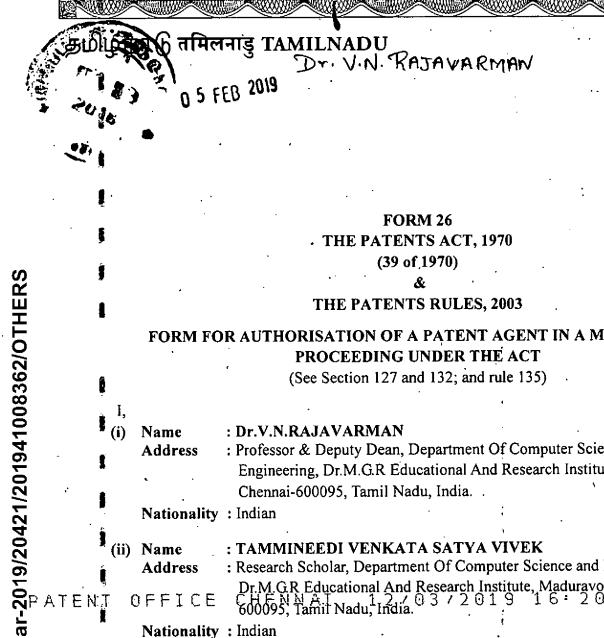
We, Prometheus Patent Services Pvt Ltd are submitting the original POA and original documents on behalf Dr.V.N.Rajavarman, Tammineedi Venkata Satya Vivek, S.Ismail Kalilulah, R.Gayathri in relation to the patent application number 201941008362 titled "Advanced Graphical Based Security Approach To Handle Visual Security" March 4, 2019.

Thanking you.

Dated this March 4, 2019

The Enclosures:

- 1. Form 1
- 2. Claims
- 3. Form 3
- 4. Form 5
- 5. Form 9
- 6. Form 18
- 7. Original POA (Form 26)
- 8. E Filing Acknowledgement



rs.j 00 HUNDRED RUPEES OCTOO PITTO INDIA 10010010 1881 INDIA NONSUDICIALS 188188 953861 AKSHMANAN AMINJIKARAI, CHENNA!-29 FORM FOR AUTHORISATION OF A PATENT AGENT IN A MATTER OR : Professor & Deputy Dean, Department Of Computer Science and Engineering, Dr.M.G.R Educational And Research Institute, Maduravoyal, : Research Scholar, Department Of Computer Science and Engineering, Dr.M.G.R. Educational And Research Institute, Maduravoyal, Chennai-

K. Goyetti

स्तायाः गासः न्या। यावा

(iii) Name :

: S.ISMAIL KALILULAH

Address

: Assistant Professor, Department Of Computer Science and Engineering,
Dr.M.G.R. Educational And Research Institute, Medurayayal, Channel

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

(iv) Name

: R.GAYATHRI

Address

: Assistant Professor, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

here by authorize,

Name

: K S USHARANI, Patent Agent

Address

: Prometheus Patent Services Pvt Ltd, Plot No. 34B, Sai Dwaraka Sinman, 1st

Floor, HUDA Heights, Near Lotus Pond, MLA Colony, Road No. 12,

Banjarahills, Hyderabad-500034, Telangana, India.

Nationality : Indian

to act as my Agent for the purpose of filing a new patent application titled "ADVANCED GRAPHICAL BASED SECURITY APPROACH TO HANDLE VISUAL SECURITY", and for the following request in connection with the above identified application before the Controller of Patents:

- ➤ Filing a Form 9 (Request for Early Publication)
- > Filing a Form 18 (Request for Examination)

I request that all notices, requisitions and communications relating thereto may be sent to such agent at the above address.

Dated this 05th February 2019

Applicant's Signature: 0

Applicant's Name: Dr.V.N.KAJAVARMAN

Applicant's Signature:

T.V.S VIVEL

Applicant's Name: TAMMINEEDI VENKATA SATYA VIVEK

Applicant's Signature:

Applicant's Name: S.ISMAIL KALILULAH

Applicant's Signature: R. Gayather

Applicant's Name: R.GAYATHRI

To,

The Controller of Patents,

The Patent office at Chennai

11-Mar-2019/20421/201941008362/OTHERS

PAT

FORM 1 THE PATENTS ACT, 1970 (39 of 1970)

&

THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT

[See sections 7,54 & 135 and rule 20(1)]

Application No.:
Filing Date:
Amount of Fee Paid:
CBR No.:

Signature:

1.	Α	ΡI	PL	IC	Al	N.	$\Gamma(8$	5):
----	---	----	----	----	----	----	------------	-----

Sr.No.	Name	Nationality	Address
1	Dr.V.N.RAJAVARMAN	India	Professor & Deputy Dear Department Of Computer Science and Engineering, Dr.M.G.R Educational and Research Institute, Maduravoya Chennai-600095, Tamil Nadu, India.
2	TAMMINEEDI VENKATA SATYA VIVEK	India	Research Scholar, Department Of Computer Science and Engineering, Dr.M.G.R Educational And Research Institute, Maduravoya Chennai- 600095, Tamil Nadu, India.
3	S.ISMAIL KALILULAH	India	Assistant Professor, Department Of Compute Science and Engineering, Dr.M.G.R Educational And
NT	OFFICE CHENNAI 12	/03/2019 16:21	Research Institute, Maduravoya Chennai- 600095,

			Tamil Nadu, India.
4	R.GAYATHR!	India	Assistant Professor, Department Of Computer Science and Engineering, Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai- 600095, Tamil Nadu, India.

2. INVENTOR(S):

Sr.No.	Name	Nationality	Address
1	Dr.V.N.RAJAVARMAN	India	Professor & Deputy Dean. Department Of Computer Science and Engineering, Dr.M.G.R Educational and Research Institute, Maduravoyal, Chennai-600095. Tamil Nadu, India.
2	TAMMINEEDI VENKATA SATYA VIVEK	India	Research Scholar, Department Of Computer Science and Engineering, Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai- 600095, Tamil Nadu, India.
3	S.ISMAIL KALILULAH	India	Assistant Professor, Department Of Computer Science and Engineering. Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-600095, Tamil Nadu, India.
4	R.GAYATHRI	India	Assistant Professor. Department Of Computer Science and Engineering. Dr.M.G.R Educational And Research Institute, Maduravoyal. Chennai-600095, Tamil Nadu: India.

3. TITLE OF THE INVENTION: ADVANCED GRAPHICAL BASED SECURITY APPROACH TO HANDLE VISUAL SECURITY

4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA:

Prometheus Patent Services Pyt Ltd. Plot No. 34B, Sai, Dwaraka / Pan No. 3 Simman Dist Floor, HUDA Heights, Near Lotus Pond, MLA Mobile No. Colony, Road No. 12, Banjarahills, Hyderabad-500034.

Telephone No.: 9381051320

ቻላማ 16 = 21 Mobile No: 9985974665

E-mail: patentagent@prometheusip.com

Telangana, India.				
5. PRIORITY PARTICULARS O	F THE APPL	ICATIO	N(S) FILED IN CONV	VENTION COUNTRY:
Sr.No. Country Application Number	Filing Da	ate	Name of the Applicar	nt Tilte of the Invention
6. PARTICULARS FOR FILING	PATENT CO	OPERA	TION TREATY (PCT) NATIONAL PHASE
APPLICATION: International Application 1		·	International Filing	Date as Allotted
PCT//			by the Reccivi	ng Office
7. PARTICULARS FOR FILING	DIVISIONAL	APPLI	CATION	
Original (first) Application?	Number	D	ate of Filing of Origina	l (first) Application
B. PARTICULARS FOR FILING	PATENT OF	ADDIT	ION:	
Main Application / PatentN	umber:		Date of Filing of Ma	in Application
(i) Declaration by the inventore I/We ,Dr.V.N.RAJAVARMAN KALILULAH, R.GAYATHRI, is/ar s) herein is/are iny/our assignee or I	, TAMMINEE e the true & firs	st invente		
(a) Date:				
(b) Signature(s) of the inventor(s): Impgimi	W 7	NO VIVEL	- S R-Gogat
(c) Name(s): Dr.V.N.RAJAVAF S.ISMAIL KALILULAH, R.GAYA		IINEEDI	VENKATA SATYA V	/IVEK,
(ii) Declaration by the applican	t(s) in the con	vention ·	country	
I/We, the applicant(s) in the con or legal representative.	vention country	/ declare	that the applicant(s) her	ein is/are my/our assigne
(a) Date:				
(c) Name(s) of the singnatory: Di		RMAN	TAMMINEEDI VENK	ATA SATYA
VIVEK,S.ISMAIL KALILULAH,R.	MAI	1 2 /	03/2019 1	6:21
(iii) Declaration by the applican				

- The Complete specification relationg to the invention is filed with this application.
- I am/We are, in the possession of the above mentioned invention.
- · There is no lawful ground of objection to the grant of the Patent to me/us.

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName
	CLAIMS UNDER RULE I (PROVISIO) OF RULE 20	Claims.pdf
2	REQUEST FOR EARLY PUBLICATION(FORM-9)	Form 9.pdf
3	REQUEST FOR EXAMINATION (FORM-18)	Form 18.pdf
4	FORM I	Form 1.pdf
5	COMPLETE SPECIFICATION	Form 2.pdf
6	DRAWINGS	DRAWINGS_LHE_28JAN2019.pdf
7	STATEMENT OF UNDERTAKING (FORM 3)	Form 3.pdf
8	POWER OF AUTHORITY	POA.pdf
9	DECLARATION OF INVENTORSHIP (FORM 5)	Form 5.pdf

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

04/02/2010	
Dated this(Final Payment Date):	
	Signature: Osto
	Name: Usharani K S
o The Controller of Patents	(1N/PA/224)
he Patent office at CHENNAI	

5. CLAIMS

We claim:

1. An advanced graphical based security approach to handle visual security comprising of:

a CaRP procedure to access authenticated data by selecting a Random Schema from at least one of: a text; an image; and a click as objects, whereby a random indices and random problems of the objects are generated and identified objects are sent to the authentication server which is configured to store a salt and hash regard H (p, s) for each identification and p is the secured customer secret key, whereby generating problems is succeeded by calculating Discretized Centralization (DC and SHA-1), whereby further a summation of Hash Signature and Session information is obtained which is followed by a summation of final image and present challenge, whereby the summation of final image and present challenge is followed by entering a password and re calculating a hash at server side.

- 2. The approach of claim 1, wherein the AS makes a CARP image upon tolerating a sign in request to record the zone of the characters in the image to be further sent to the user.
- The approach of claim 1, wherein upon seeing no less than two predefined kind of things, the container transfer may be done to the CaRP.
- 4. The approach of claim 1, wherein in the CaRP procedure, a sequence of visual objects are generated based on pre-defined passwords available in database.
- 5. The approach of claim 1, wherein the CaRP designs are clicked-built graphical PINs.
- 6. The approach of claim 1, wherein CaRP designs tin gathered are hooked

Page 13 of 15

on two classes from at least one of: affirmation; and another arrangement, wherein the affirmation survey unites the assignments of both affirmation and flagged audit.

- 7. The approach of claim 1, wherein a click text based CaRP designs is developed by the basic Captcha motor as though a Captcha picture existed.
- The approach of claim 1, wherein a click creature picture based CaRP designs configured to work with alphabets in accordance with the creatures in a designated place.
- The approach of claim 8, wherein every creature is allotted shading haphazardly which was chosen from an arrangement of predetermined number of hues.
- 10. The approach of claim 8, wherein both three dimensional and two dimensional images are taken into consideration:

6. DATE AND SIGNATURE:

Dated this March 4, 2019

Authorized Patent Agent Signature:

Authorized Patent Agent Name: USHARANI K S

(IN/PA/2241)

FORM 3 THE PATENTS ACT, 1970 (39 of 1970)

And

THE PATENTS RULES, 2003 STATEMENT AND UNDERTAKING UNDER SECTION 8

(See section 8; Rule 12)

I. We,

Applicants:

(i) Name

: Dr.V.N.RAJAVARMAN

Address

: Professor & Deputy Dean, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

(ii) Name

: TAMMINEEDI VENKATA SATYA VIVEK

Address

: Research Scholar, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

iii) Name

: S.ISMAIL KALILULAH

Address

: Assistant Professor, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

iv) Name -

: R.GAYATHRI

Address

: Assistant Professor, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

hereby declare that we have not made any application for the same/substantially the same

invention outside India.

Name of the	Date of	Application	Status of the	Date of	Date of grant
country	application	No.	application	publication	

2. Name and address of the assignee

-NIL-

3. Dated this March 4, 2019

Authorized Patent Agent Signature: Authorized Patent Agent Name: USHARANI K S

(IN/PA/2241)

To.

The Controller of Patents,

The Patent Office, at Chennai

FORM 5 THE PATENTS ACT, 1970 (39 of 1970)

&

The Patents Rules, 2003 DECLARATION AS TO INVENTORSHIP [See section 10(6) and rule 13(6)]

I. NAME OF APPLICANTS

(i) Dr.V.N.RAJAVARMAN

(ii) TAMMINEEDI VENKATA SATYA VIVEK

(iii) S.ISMAIL KALILULAH

(iv) R.GAYATHRI

hereby declare that the true and first inventor of the invention disclosed in the complete specification are

2. INVENTOR(\$)

Name (i)

: Dr.V.N.RAJAVARMAN

Address

: Professor & Deputy Dean, Department Of Computer Science and

Engineering, Dr.M.G.R Educational And Research Institute, Maduravoyal,

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Nationality: Indian

(ii) Name

: TAMMINEEDI VENKATA SATYA VIVEK

Address

: Research Scholar, Department Of Computer Science and Engineering.

Dr.M:G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

iii) Name

: S.ISMAIL KALILULAH

Address

: Assistant Professor, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

iv) Name

: R.GAYATHRI

Address

: Assistant Professor, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

Dated this March 4, 2019

Authorized Patent Agent Signature: Authorized Patent Agent Name: USHARANI K S

(IN/PA/2241)

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

NA-

4. STATEMENT(to be signed by the additional inventor(s) not mentioned in the application form)

-NA-

To,

The Controller of Patents,

The Patent Office, at Chennai

FORM 9 THE PATENTS ACT, 1970 (39 of 1970)

&

The Patents Rules, 2003 REQUEST FOR PUBLICATION [See section 11A(2) and rule 24A]

We,

(i) Name Address : Dr.V.N.RAJAVARMAN

: Professor & Deputy Dean, Department Of Computer Science and

Engineering, Dr.M.G.R Educational And Research Institute, Maduravoyal,

Chennai-600095, Tamil Nadu, India.

Nationality: Indian

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Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

iii) Name

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Address

: Assistant Professor, Department Of Computer Science and Engineering,

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600095, Tamil Nadu, India.

Nationality: Indian

iv) Name

: R.GAYATHRI

Address

: Assistant Professor, Department Of Computer Science and Engineering,

Dr.M.G.R Educational And Research Institute, Maduravoyal, Chennai-

600095, Tamil Nadu, India.

Nationality: Indian

hereby request for early publication of our application for Patent of the invention titled "ADVANCED GRAPHICAL BASED SECURITY APPROACH TO HANDLE

VISUAL SECURITY" under section 11A(2) of the Act.

Dated this March 4, 2019

Authorized Patent Agent Signature:

Authorized Patent Agent Name: USHARANI K S

(IN/PA/2241)

To.

The Controller of Patent

The Patent Office, at Chennai

FORM 18 THE PATENTS ACT 1970 (39 OF 1970)

The Patents Rules, 2003 REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT

Application No: Filling Date:

Amount of Fee Paid:

CBR No: Signature:

(See section 118 and rule 20(4)(ii), 24B(1)(i))

1. APPLICANT (S)

(i) Name : Dr.V.N.RAJAVARMAN

Address

: Professor & Deputy Dean, Department Of Computer Science and

Engineering, Dr.M.G.R Educational And Research Institute,

Maduravoyal, Chennai-600095, Tamil Nadu, India.

Nationality: Indian

(ii) Name : TAMMINEEDI VENKATA SATYA VÍVEK

: Research Scholar, Department Of Computer Science and Engineering, Address

Dr.M.G.R Educational And Research Institute, Maduravoyal,

Chennai-600095, Tamil Nadu, India.

Nationality: Indian

iii) Name : S.ISMAIL KALILULAH

> Address : Assistant Professor, Department Of Computer Science and

> > Engineering, Dr.M.G.R Educational And Research Institute,

Maduravoyal, Chennai-600095, Tamil Nadu, India.

Nationality: Indian

iv) Name : R.GAYATHRI

> : Assistant Professor, Department Of Computer Science and Address

> > Engineering, Dr.M.G.R Educational And Research Institute,

Maduravoyal, Chennai-600095, Tamil Nadu, India.

Nationality: Indian

2. Statement in case of request for examination made by the applicant(s)

We hereby request that our invention titled "ADVANCED GRAPHICAL BASED SECURITY APPROACH TO HANDLE VISUAL SECURITY" shall be examined under sections 12 and 13 of the Act.

3. Statement in case of request for examination made by any other interested person NA

4. ADDRESS FOR SERVICE

Prometheus Patent Services Pvt Ltd, Plot No. 34B, Sai Dwaraka Sinman, 1st Floor, HUDA Heights, Near Lotus Pond, MLA Colony, Road No. 12, Banjarahills, Hyderabad-500034, Telangana, India.

Email: patentagent@prometheusip.com; nrajavarman2003@gmail.com

Contact Number: 9985974665

Dated this March 4, 2019

Authorized Patent Agent Signature: Authorized Patent Agent Name: USHARANI K S

(IN/PA/2241)

To,

The Controller of Patent

The Patent Office, at Chennai



Controller General of Patents, Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

	Application Details			
APPLICATION NUMBER	201741038348			
APPLICATION TYPE	ORDINARY APPLICATION			
DATE OF FILING	30/10/2017			
APPLICANT NAME	Dr.MGR Educational and Research Institute University			
TITLE OF INVENTION	REAL TIME INDUSTRIAL DATA ACQUISITION USING HANGING ROBOT			
FIELD OF INVENTION	ELECTRONICS			
E-MAIL (As Per Record)	sriipsearcher@gmail.com			
ADDITIONAL-EMAIL (As Per Record)	senthil@chennaitrademark.com			
E-MAIL (UPDATED Online)				
PRIORITY DATE	NA			
REQUEST FOR EXAMINATION DATE				
PUBLICATION DATE (U/S 11A)	03/05/2019			

	Application Status
APPLICATION STATUS	Application Published
	View Documents



Controller General of Patents,Designs and Trademarks Department of Industrial Policy and Promotion Ministry of Commerce and Industry

	Application Details
APPLICATION NUMBER	201741038870
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/11/2017
APPLICANT NAME	Dr. MGR Educational And Research institute
TITLE OF INVENTION	ELECTRONIC PROTECTION TO EXAM PAPER
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	patent@drmgrdu.ac.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	NA
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	12/07/2019

	Application Status	
APPLICATION STATUS	Application Published	
		View Documents

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741038411 A

(19) INDIA

(22) Date of filing of Application :30/10/2017 (43) Publication Date: 08/11/2019

(54) Title of the invention: GENERATION OF POWER BY USING PELTON WHEEL HYDRO TURBINE - AN IOT APPLICATION

(51) Intermediated allowing actions	.E02D12/00	(71) Name of Amiliant.
(51) International classification		(71)Name of Applicant:
(31) Priority Document No	:NA	1)Dr. MGR Educational and Research Institute
(32) Priority Date	:NA	Address of Applicant :Maduravoyal Chennai,Tamil Nadu
(33) Name of priority country	:NA	India, Pin code600095 Tamil Nadu India
(86) International Application No	:NA	(72)Name of Inventor:
Filing Date	:NA	1)J. Jayarajan
(87) International Publication No	: NA	2)T. Jenish
(61) Patent of Addition to Application Number	:NA	3)S. Bhuvaneswari
Filing Date	:NA	4)Dr. E. Sheeba Percis
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

⁽⁵⁷⁾ Abstract:

The present invention generally relates to hydro power generation. More specifically, the hydro power generation using Pelton wheel hydro turbine is continuously monitored and controlled from a remote place through an IOT application

No. of Pages: 17 No. of Claims: 10

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ORIGINA O 11. IN CA PARTICU 12. DECL (i) Declara (in ca uploa assign I/We, the ap (a)	ASE OF PATEI JLARS OF MA ARATIONS ation by the inverse the applicant of the assignment of the above name opplicant(s) herein of Date: 30 —	PLICAT Ilication NT OF A IN APP Tentor(s In is an and or end In it	ADICALION (STATE OF ADICALION ADICAL	ignee: the inverted the assignment of the assignment of the series of the true our assignee or the true our assignee.	Date of filing UNDER SECTION TOTAL ATENT	ng of original (first) application CTION 54, - n herein below or the applicant may ication for patent or send the within the prescribed period). r(s) for this Invention and declare tha		
ORIGINA O 11. IN CA PARTICU 12. DECL (i) Declara (in ca uploa assign I/We, the ap (a)	ASE OF PATEI JLARS OF MA ARATIONS ation by the inverse the applicant of the assignment of the above name opplicant(s) herein of Date: 30 —	PLICAT Ilication NT OF A IN APP Tentor(s In is an and or end In it	ADICALION (STATE OF ADICALION ADICAL	ignee: the inverted the assignment of the assignment of the series of the true our assignee or the true our assignee.	Date of filing UNDER SECTION TOTAL ATENT	ng of original (first) application TION 54, n herein below or the applicant may ication for patent or send the vithin the prescribed period). r(s) for this Invention and declare that tative.		
ORIGINA O 11. IN CA PARTICU 12. DECL (i) Declara (in ca uploa assign I/We, the ap (a)	ASE OF PATEI JLARS OF MA ARATIONS ation by the inverse the applicant of the assignment of the above name opplicant(s) herein of Date: 30 —	PLICAT Ilication NT OF A IN APP Tentor(s In is an and or end In it	ADICALION (Section 1974)	ignee: the inverted the assignment of the assignment of the series of the true our assignee or the true our assignee.	Date of filing UNDER SECTION TOTAL ATENT	ng of original (first) application TION 54, n herein below or the applicant may ication for patent or send the vithin the prescribed period). r(s) for this Invention and declare that tative.		

Abstract No. of Drawing(s) 0 F F I C

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(ii) Decla	ration by the	applicant(s) in the conv	ention country	
્રા (in c	ase the appli	cant in India is different	than the applican	t in the convention country: the
	cant in the co	nvention country may sign	herein below or a	pplicant in India may upload the
assig	nment from th	ne applicant in the conven	tion country or end	lose the said assignment with this
appli	cation for pate	ent or send the assignmen	t by post/electronic	transmission duly authenticated within
G 1853	rescribed peri			*
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I/We	the applicant	t(s) in the convention coun	try declare that the	e applicant(s) herein is/are
my /c	our assignee o	or legal representative.		
(a) D	ate: 30 –	-oct-17		
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~	ح. (۱	3. Palarivel	REGISTRAR	
-		ational and Researchilus	Dr. M.G.R. I titute Research Inst	itu to
(iii) Decla	ration by the	applicant(s) (Decl. u	—University /s.3 of UGC Act, 195	6)
I/We the a	applicant(s) h	nereby declare(s),that rave	ar E.V.R. High Road oval. Chennai - 600 0	95
.D	am/We are	e in possession of the abo	ve-mentioned inve	ntion.
				rention is filed with this application.
~	15. 7 .19		000 California (1911)	e biological material from India and the
				be submitted by me/us before the grant
	of patent to	•	terreductionly snan	be submitted by moras before the grant
n C	٠ 🛴		(a) to the grant of t	the Batant to makin
Va ²		lawful ground of objection		the Patent to me/us.
		the true & first inventor(s)		
W.		the assignee or legal rep		Section 19 and 1
	The applica	tion or each of the applica	itions, particulars o	of which are given in Paragraph- 8, was
	the first app	lication in convention coul	ntry/countries in re	spect of my/our invention(s).
Ц	I/We claim	the priority from the	above mentione	d application(s) filed in convention
	country/cou	ntries and state that no ap	plication for protec	tion in respect of the invention had been
	made in a c	onvention country before t	hat date by me/us	or by any person from which I/Wederive
	the title.	6.		
13. FOLL	OWING AR	E THE ATTACHMENTS	WITH THE APP	PLICATION
(a) Form	2			
Item Complete	provisjenal	Details	Fee	Remarks
specificati	·	No pages - 04		
No. of Cla	im(s)	No of claims and	CALCORE ASSOCIATION	

No. of claims and 9
No. of pages
No. of Pages
No. of drawings and
=No.(of-pages) AT 30/10/2017 15:27

- # 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.
 - (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
 - (c) Sequence listing in electronic form
 - (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
 - (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority Document (s) available to DAS.
 - (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
 - (g) Statement and Undertaking on Form 3
 - (h) Declaration of Inventor-ship on Form 5

Total fee	in Cash/ Banke	r's Cheque /Ba	ank Draft bearing	No. 658453
Date 27th on	Octob	Bank.		g No6.58453
Oct -17		distant in	e	

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

Dated this 30th day of October 20 17

C. B. Reburel.

Dr.M.G.R.Educational and Research Institute REGISTRAR

Dr. M.G.R.

Educational and Research Institute

University

(Decl. u/s.3 of UGC Act, 1956)

The Controller of Patents E.V.R. High Road
The Patent Office, at Chennai - 600 095





भारत सरकार GOVERNMENT OF INDIA

एकस्व कार्यालय / THE PATENT OFFICE बौद्धिक सम्पदा भवन/I.P.O. BUILDING जी.एस.टी.रोड, गिंडी/ G.S.T.Road, Guindy, चेन्नई/ Chennai- 600032

दूरभाष/ Tel. No. : (091)(044)22502081-84

फ़ैक्स/Fax: 044 22502066

Email/ई मेल : Chennai-patent@nic.in वेबसाइट /Website: http://ipindia.nic.in

सं.संख्या/Ref. No /आवेदन संख्या/Application No/ 201741038346

दिजांक/Date of Dispatch/Email: 24/03/2021

सेवा मे,/To

SHRI. SENTHIL KUMAR .B.,

Senthil Kumar.B Agent Code: IN/PA-1549 New No.35, Old No.16 Ramanuja Nagar, Konnur High Road,

Ayanavaram, Chennai 600023 Email: sriipsearcher@gmail.com Tel: 98410 78077

Email: sriipsearcher@gmail.com,senthil@chennaitrademark.com

विषय: एकस्व अधिनियम, 1970 की धारा 12 व 13 तथा एकस्व नियम, 2003 के अधीन परीक्षण रिपोर्ट

Subject: Examination report under sections 12 & 13 of the Patents Act, 1970 and the Patents Rules, 2003.

1. उपर्युक्त आवेदन के संदर्भ मे परीक्षण रिपोर्ट (अर्थात, एकस्व नियम, 2003 (यथा संशोधित) के नियम 24-स्व(3) में विनिर्दिष्ट आपत्तियों का पुथम कथन) इसके साथ संलब्न हैं। यह रिपोर्ट परीक्षण हेत अनरोध दिनांक 09/02/2021 के उत्तर मे जारी की गयी हैं। परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि (अर्थात, इस रिपोर्ट में लगाई गयी सभी आवश्यकताओं के अनुपालन की अवधि) आवेदक को आपतियों का पुथम कथन जारी होने की तिथि से छः माह हैं।

Please find enclosed herewith an Examination Report (i.e. a first statement of objections as specified in Rule 24-B(3) of The Patents Rules, 2003 (as amended)) in respect of above-mentioned application. This report is issued with reference to a request for examination dated 09/02/2021. The last date for filing a response to the Examination Report (i.e. a period to comply with all the requirements raised in this examination report) is six months from the date on which the first statement of objections is issued to the Applicant.

2. यदि रिपोर्ट के अंतर्गत लगाई गयी आवश्यकताओं का अनुपालन एकस्व नियम, 2003 (यथा संशोधित) के नियम 24 स्व(5) में विनिर्दिष्ट अवधि के भीतर अंदर अनपालन नहीं किया गया तो एकस्व अधिनियम 1970 की धारा 21(1) के अधीन वर्तमान आवेदन को परित्यक्त माना जाएगा

The instant application shall be deemed to have been abandoned under Section 21(1) of The Patents Act, 1970, unless all the requirements raised in this report are complied with in the period as specified in Rule 24-B (5) of The Patents Rules, 2003 (as amended).

- 3. आपका ध्यान एकस्व नियम, 2003 के नियम 24 ख(6) के पावधानों की ओर भी आमंत्रित किया जाता है। Your attention is also invited to the provisions of Rule 24-B (6) of the Patents Rules 2003.
- 4. आपको सलाह दी जाती हैं कि शीघू निपटान हेत् अपना उत्तर शीघू पुरत्त करें। You are advised to file the reply at the earliest for early disposal.

Ramesh Vanaparthi

नियंतुक पेटेंट/ Controller of Patents

संलग्न/Enclosed: अपरोक्त अनुसार/As above

टिप्पणी: यह इलेक्ट्रोनिक रूप से उत्पन्न रिपोर्ट हैं।

NOTE: This is an electronically generated report.

सभी पत्राचार नियंतूक एकरव को उपरोटिलिखित पते पर भेजा जाये।

All communications should be sent to the Controller of Patents at the above mentioned address.

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परीक्षण रिपोर्ट /Examination Report

आवेदन संख्या /Application Number	201741038346
दाखित करने की तिथि /Date of Filing	30/10/2017
पूर्विक्ता दिलांक /Date of Priority	
पीसीटी अंतर्राष्ट्रीय आवेदन की संख्या व दिनांक / PCT International Application No. & Date	
आवेदक /Applicant	Dr.MGR Educational and Research Institute University
परीक्षण हेतु अनुरोध की संख्या व दिनांक /Request for Examination No. & Date	R20214004430 09/02/2021
पूकाशन की तिथि /Date of Publication	03/05/2019

इस परीक्षण रिपोर्ट के चार भाग हैं, अर्थात रिपोर्ट का सारांश, विस्तृत तकनीकी रिपोर्ट, औपचारिक आवश्यकताएँ तथा रिकॉर्ड में दस्तावेज़ / This examination report consists of four parts, namely summary of the report, detailed technical report, formal requirements and documents on record.

भाग -1: रिपोर्ट का सारांश

PART-I: SUMMARY OF THE REPORT

क्. सं. /SI. No.	अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियां /Requirements under the Act		दावों की संख्या /Claim Numbers	टिप्पणी /Remarks
		9 /Navalto	द्रावे /Claims:	हाँ /Yes
	धारा २(१)(त्र) के तहत	नवीनता /Novelty	द्रावे /Claims: 1	नहीं /No
			द्रावे /Claims:	हाँ /Yes
1.	3111d tops /invention u/s 2(1)(j)	आविष्कारी कदम / Inventive step	द्रावे /Claims: 1	नहीं /No
	_(')()	औद्योगिक उपयोगिता /Industrial	द्रावे /Claims: 1	ਰĭ /Yes
		Applicability	टावे /Claims:	नहीं /No
2.	धारा 3 के अधीन पेटेंट-अयोग्यता (यदि हाँ, खंड 3(क-त) /Non- patentability u/s 3		दावे /Claims: 1	gĭ /Yes d
	(if yes, specify section	3(a-p))	टावे /Claims:	नहीं /No
		स्पष्टता/ संक्षिप्तता /Clarity /	टावे /Claims:	ਰĭ /Yes
		Conciseness	दावे /Claims: 1	नहीं /No
3.	[धारा 10(5) व 10(4) (ग)] के अधीन दावे /Claims	परिभाषिकता /Definitive	टावे /Claims:	ਗ਼ੱ /Yes
J.	[u/s 10(5) & 10(4) (c)]		दावे /Claims: 1	नहीं /No
		विवरण द्वारा समर्थित /Supported by	टावे /Claims:	ਗ਼ੱ /Yes
		description	दावे /Claims: 1	नहीं /No
	अन्य आवश्यकता (एँ) /Othe	er requirement(s):		
4.			2(1)(j) of Indian Patents Act since re any inventive technical feature(

भाग —II विस्तृत तकनीकी रिपोर्ट

PART-II: DETAILED TECHNICAL REPORT

क. उद्धरित दस्तावेजों की सूची /A.List of documents cited:

(क) पेटेंट साहित्य / (a). Patent Literature :



THE PATENT OFFICE

क्ट्र. सं. / SI.no	दस्तावेज़ों का विवरण /Details of documents	पूकाशन तिथि(दिन/माह/वर्ष) / Publication date	उद्घरित दस्तावेज़ का प्रासंगिक विवरण (पृष्ठ व अनुच्छेद संख्या) / Relevant description (page and paragraph no.) of cited document	उद्घरित दस्तावेज़ के प्रासंगिक दावे / Relevant claims of cited document	अभिकथित आविष्कार के दावे /Claims of alleged invention
1	D1:CN101962205 A	02/02/2011	WHOLE DOCUMENT		1
2	D2:US20100233245 A1	16/09/2010	WHOLE DOCUMENT		1
3	D3:CN101264335 A	17/09/2008	WHOLE DOCUMENT		1

(ख) गैर-पेटेंट साहित्य /(b).Non-patent literature

कोई दस्तावेज़ उद्भृत नहीं है /No Document Cited

ख. अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियां /B. Detailed observations on the requirements under the Act:

(1).नवीनता / NOVELTY:

(I) ऊपर उद्घरित दस्तावेज़ के संदर्भ (1) में दिये गए पूकटन के पूर्वानुमान को ध्यान में रखते हुए, निम्नितिखत कारणों से दावा(वों) (1) में नवीनता की कमी हैं /

Claim(s) (1) lack(s) novelty, being anticipated in view of disclosure in the document cited above under reference D1-D3 for the following reasons:

Claim 1 lack novelty with respect to the document D1, D2, D3.

Document D1 discloses a halogenated silver nano-particles have a higher antibacterial effect, which is characterized in that the synthesis according to the following method: the AgNO 3 and molybdate(sodium molybdate, potassium molybdate) according to the molar concentration of the 2 [...] 1 for mixing, uniform mixing, reaction under the action of supersonic in 2-4 hours, subsequently centrifugal, washing; under the action of the ultrasonic wave continuously, to the washing of the solid particles and slowly dropping in AgNO 3 solution same volume, molar concentration ratio AgNO 3 high 2.5 times of the above halogen-containing ionic surface active agent, ultrasonic reaction after the completion of the dropping to 0.5-2 hours; make particle size in 50-500nm nano particles of silver halide.

Document D2 discloses A method of preparing a nanoparticle composition comprising cellulose nanofibers embedded with nanosized material, said method comprising steps of: a) Mixing metal salt solution (silver nitrate) with cellulose nanofibers; and b) adding reducing agent (sodium borohydride)to the mixture to reduce the metal salt to obtain said nanoparticles composition or comprising the steps of: c) adding metal salt solution to a mixture of cellulose nanofibers and iron oxide; d) reducing metal salt using reducing agent; e) separating the silver embedded iron oxide on cellulose nanofibers; and f) washing with water followed by drying to obtain said nanoparticles composition or comprising the steps of: g) soaking cellulose papers in metal salt solution; h) washing the soaked cellulose paper; i) soaking the washed cellulose papers in solution of reducing agent; j) washing the cellulose papers of step (i); and k) drying to obtain said nanoparticles composition.

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Document D3 discloses a bacteria cellulose membrane containing silver chloride nanometer particles, corresponding preparation method and application, which is characterized in that a plurality of silver chloride nanometer particles are adhered to the microfiber surface of the three-dimensional porous reticular structure of the bacteria cellulose membrane, the content of the silver chloride nanometer particle is 0.5 to 21% of the total weight and which particle diameter is 10 to 300nm. The preparation method is base on the principle of using the particular three-dimensional reticular microfibrillar structure and the high oxygen density (ether linkage and hydroxy) to constitute the synthetical effective nanometer reactors by the silver chloride nanometer particles in situ and the product is obtained after repeatedly soaking in the solution of silver salt and chloride salt, rinsing and drying. The bacteria cellulose membrane containing silver chloride nanometer particles has the advantages of excellent antibacterial performance, most simple preparation process, can be used as favorable antiseptic dressing and extracting the silver chloride nanometer particles. The same subject matter is also claimed in instant application. Therefore Claim 1 is not novel under section 2(1) (j) of The Patents (Amendment) Act, 2005.

(2).आविष्कारी कदम / INVENTIVE STEP:

(I) ऊपर उद्धरित दस्तावेज़(जों) के संदर्भ D1-D3 में स्पष्ट अध्यापन(नों) को ध्यान में रखते हुए, निम्नतिखित कारणों से दावा(वों) (1) में आविष्कारी कदम की कमी हैं

Claim(s) (1) lack(s) inventive step, being obvious in view of teaching (s) of cited document(s) above under reference D1-D3 for the following reasons:

Without prejudice to the novelty objection, the present invention lacks inventive step u/s 2(1)(ja) of the Patent Act 1970, in view of prior art documents D1-D3.

(3).पेटेंट अयोग्यता /NON PATENTABILITY:

- (I) निम्नित्यित कारणों से धारा 3 के खंड (d)के प्रावधान के तहत दावा(वे) (1) सांविधिक रूप से पेटेंट योग्य नहीं हैं / Claim(s) (1) are statutorily non-patentable under the provision of clause (d) of Section 3 for the following reasons:
- 1. Claim 1 fall within the scope of Section 3(d) of the PA, 1970.
- 2. Claim 1 fall within the scope of Section 3(I) of the PA, 1970.

(4).पूकटन की दक्षता /SUFFICIENCY OF DISCLOSURE:

(I) दावा(वे) 1 विनिर्देश में पूकट विषय पर आधारित नहीं हैं अथवा निम्नितियत कारणों से विनिर्देश में पूकटन द्वारा समर्थित नहीं हैं। Claim(s)'1' are not fairly based on the matter disclosed in the specification or not supported by the disclosure in the specification for the following reasons:

No example is given in the present application. Instant application does not meet the requirements of Section 10(4) of the PA, 1970.

(5).स्पष्टता एवं संक्षिप्तता /CLARITY AND CONCISENESS:

(I) द्रावा(वे) 1 के संबंध में स्पष्ट रूप से परीभाषित नहीं हैं.

Claim(s) 1 are not clearly worded in respect of:

Claim 1 do not sufficiently define the invention. All the process parameters should be defined in claim 1.



THE PATENT OFFICE

(6).परिभाषिकता /DEFINITIVENESS:

(I) दावा(वे)1 निम्नतिखित कारणों से आविष्कार को पर्याप्त रूप से परीभाषित नहीं करता(ते) हैं Claim(s) 1 do not sufficiently define the invention for the reasons as follows:

Claims of present application as drafted, do not define the invention clearly. The subject matter for which applicant intends to seek legal protection is not apparent from the language of claim. Applicant is informed that the claims which follow the detailed description of invention should clearly and sufficiently define the scope of invention for which protection is claimed, as per section 10(4)(c) of the Act. Claims which are fairly based on the matter disclosed in the complete specification should clearly define the embodiments for which protection is sought. The principal (independent claims) claim must clearly define all the technical features and major aspects and over all boundary of the claimed invention, which is followed by dependent claims which define the preferred embodiments of the invention claimed in the principal claim. Claims should be properly and unambiguously worded, and should be clear and succinct as per Section 10(5) of the Act. A product claim should define the characteristic, distinguishing technical features of the product and a method claim should describe the operative steps of a process, in a definite and explicit manner. Lack of technical features makes the subject matter for which protection is sought indefinite.

(७).अन्य आवश्यकताएँ /OTHERS REQUIREMENTS:

(I)

While making any amendments to complete specifications a marked/highlighted copy should be provided to show and understand how the amendments are carried in the original claims. Further, the support for the subject matter added should be submitted by pointing out the corresponding page(s) and paragraph(s) in the complete specifications and the subject matter of the amendments should be in compliance with section 59 of the Act.

भाग – III: औपचारिक आवश्यकताएँ /PART-III: FORMAL REQUIREMENTS

कोई आपत्ति नहीं /No Objections

भाग-IV: रिकॉर्ड में दस्तावेज /PART-IV: DOCUMENTS ON RECORD

निम्नलिखित दस्तावेज़ों के आधार पर यह परीक्षण रिपोर्ट तैयार की गयी हैं

The examination report has been prepared based on the following documents:

कार्यसूची तिथि / Docket Date	कार्यसूची संख्या /Docket Number	पूर्विष्टि संख्या विवरण /Entry Number Description
30 Oct 2017	67018	1-New Application For Patent With Provisional /Complete Specification
06 Nov 2017	68668	OTHERS(NON CASH)
09 Feb 2021	11713	28(i)-Request For Examination After 18 months Publication - Form 18

नियंतुक का नाम /Name of the Controller: Ramesh Vanaparthi

नियंतुक स्थान /Controller Location: Chennai

THE PATENT OFFICE

टिप्पणी: परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि / Note: Last date for filing response to the Examination Report: 24/09/2021

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				6) jû	City	Chennai	
				ii ii	State	Tamil Nadu India	
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Ms. Sub	ohashree.G.R.	TAXABARAN BE	NDIAN	INDIA	Street	Associate Professor, Department of Physics, Dr. MGR Educational and Research Institute, Maduravoyal	
					City	Chennai	
		,			State	Tamil Nadu	
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					Pin code	600095	
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AGENT(S)			Mobile No.		NIL	NIL	
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			Mobile	No.	100000000000000000000000000000000000000	6 Cf 22 SS 5555	
			Fax No).	044-237831	65	
	§		E-mail ID		patent@drmgrdu.ac.in		
8. IN CASE OF APPLICATION CONVENTION COUNTRY, PA							
Country	Application Number	Filii da		ame of the applicant	Title of the invention	IPC (as classified in the convention country)	
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9. IN CASE OF PCT NATIONAL PHASE A APPLICATION FILED UNDER PATENT CO	PPLICATION, PARTICULARS OF INTERNATIONAL D-OPERATION TREATY (PCT)
International application number	International filing date
10. IN CASE OF DIVISIONAL APPLICATION ORIGINAL (FIRST) APPLICATION	ON FILED UNDER SECTION 16, PARTICULARS OF
Original (first) application No.	Date of filing of original (first) application
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11. IN CASE OF PATENT OF ADDITION F	Section (Section 1995) - Exposures interestinated (Section 1996) - Expos
PARTICULARS OF MAIN APPLICATION (DR PATENT
Main application/patent No.	Date of filing of main application
12. DECLARATIONS	
(i) Declaration by the inventor(s)	
(In case the applicant is an assignee: the	inventor(s) may sign herein below or the applicant may
upload the assignment or enclose the assig	nment with this application for patent or send the
assignment by post/electronic transmission	duly authenticated within the prescribed period).
I/We, the above named inventor(s) is/are the	e true & first inventor(s) for this Invention and declare that
the applicant(s) herein is/are my/our assigne	ee or legal representative.
the applicant(s) herein is/are my/our assignation (a) Date $30-0ct-17$	
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2 Kanal F. F.	
K.1-	GR Jubhach Ms. Subhashree.G.R
Dr. R. Kamalraj	Ms. Subhashree.G.R
(ii) Declaration by the applicant(s) in the con-	vention country
(In case the applicant in India is different	t than the applicant in the convention country: the
applicant in the convention country may sig	n herein below or applicant in India may upload the
assignment from the applicant in the conver	ntion country or enclose the said assignment with this
application for patent or send the assignme	nt 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

(a) Date

my /our assignee or legal representative.

30-Oct-17

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(iii) Declaration by the I/We the applicant(s) i	e applicant(s) nereby declare(s) that:-	- 1-2 of UGC A	ct, 1956) n Road i - 600 095.
U am/We are	e in possession of the abo	ve-mentioned inve	ention.
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□ I am/we are	the true & first inventor(s).	
lam/we are	the assignee or legal rep	resentative of true	& first inventor(s).
☐ The applica	tion or each of the applica	ations, particulars o	of which are given in Paragraph- 8, was
the first app	lication in convention cou	ntry/countries in re	spect of my/our invention(s).
13. FOLLOWING AR (a) Form 2	E THE ATTACHMENTS	S WITH THE API	PLICATION
Item	Details	Fee	Remarks
Gemplete/provisional specification)#	No. of pages 05		
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Abstract	No. of pages		
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Abstract No. of pages

No. of No. of Pages

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In case of a complete specification, if the applicant desires to accomplete specification as the drawings or part of the drawings for rule 13(4), the number of such pages filed with the provisional specimentioned here. 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

- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority Document (s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventor-ship on Form 5
- (i) Power of Authority

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Total fee	in Cash/ Banker	's Cheque /Ba	nk Draft bearing	No. 6584	53

Date on Canara Bank

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

Dated this 30th day of Oct 20 17

C. B. Palanial

Dr.M.G.R.Educational and Research Institute

REGISTRAR

To, Dr. M.G.R.

The Controller of Palents

The Patent (Office // ab Chemaket, 1956)

Periyar E.V.R. High Road

Maduravoyal, Chennai - 600 095.

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			CBR No: 33511						
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2. TYPE OF A	PPLICATION	[Please tick () at the	appropr	iate catego	ry]			
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3A. APPLICA	NT(S)				.l				
Name in	n Full	Nationality		untry of sidence	,	Addres	ss of the Applicant		
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3B. CATEGO	DRY OF APP	LICANT [Ple	ase tic	k() at th					
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					State	Chennai Tamil Nadu India		
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5. TITLE	OF THE INVE	NTION]	<u> </u>				
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6. AUTH	ORISED		IN/ PA	No.	NIL			
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AGENT(S	S)		Mobile	No.	NIL			
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	ESS FOR E OF APPLICA	MT	Postal A	Address		ducational and Research Institute II, Chennai, Tamil Nadu - 600095		
IN INDIA			Telepho	one No.	044-23782	176		
			Mobile I	No.				
			Fax No.		044-23783165			
			E-mail I	D	patent@drmgrdu.ac.in			
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11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT

Main application/patent No.

Date of filing of main application

12. DECLARATIONS

(i) Declaration by the inventor(s)

(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).

I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date $30-\delta ct-17$

S. Valliammai

Mall

(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.

(a) Date 30-0d-17

a C-B. Palamirch

FOR Dr.M.G.R.Educational and Research Institute

REGISTRAR
Dr. M.G.R.

Educational and Research Institute
University
(Decl. u/s.3 of UGC Act, 1956)

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(iii) Declaration by the	e applicant(s)		
I/We the applicant(s) I	nereby declare(s) that:-		
√ I am/We are	e in possession of the abo	ove-mentioned	d invention.
The provision	onal/e ompleta- specificatio	n relating to the	he invention is filed with this application.
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necessary	permission from the comp	etent authority	y shall be submitted by me/us before the
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, ☐ There is no	lawful ground of objection	n(s) to the gra	ent of the Patent to me/us.
	the true & first inventor(s		
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			lars of which are given in Paragraph- 8, was
	• •	•	s in respect of my/our invention(s).
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		applicant desi	res to adopt the drawings filed with his
provisional specifica	tion as the drawings or pa	art of the draw	rings for the complete specification under
rule 13(4), the numb	er of such pages filed with	h the provision	nal specification are required to be
mentioned here.			
(b) Complete specifi	cation (in conformation wi	ith the interna	tional application)/as amended
before the Intern	ational Preliminary Exam	ination Author	rity (IPEA), as applicable (2 copies).
(c) Sequence listing	in electronic form		
(d) Drawings (in con	formation with the interna	tional applicat	tion)/as amended before the International
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- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority Document (s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.

(g) Statem	ent and Undertaking on Form 3
(h) Declara	ation of Inventor-ship on Form 5
(i) Power o	f Authority
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I/We here	in Cash/ Banker's Cheque /Bank Draft bearing No. 6.5.8453 Bank. Bank. by declare that to the best of my/our knowledge, information and belief the fact and matters rein are correct and I/We request that a patent may be granted to me/us for the said

C. B. Palanivalu d

FOR Dr.M.G.R.Educational and Research Institute

REGISTRAR

Dr. M.G.R.

Educational and Research Institute

University

The Controller of Patents E.V.R. High Road
The Patent Office cat: Cherinal - 600 095.

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3A. APPLICA	NT(S)		1			<u> </u>	4600 (b)			
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3B. CATEGO	RY OF APPL	ICANT [Ple	ase tick	() at			category			
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4. INVENTOR	R(S) [Please t			10000						
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7. ADDR	ESS FOR		D	f=1 K d d==		Dr. M.G.R.	Educational and Research Institute,		
SERVICE	OF APPLICA	NT	Pos	tal Addre			al, Chennai, Tamil Nadu 600095		
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•	(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	
1	my /our assignee or legal representative.	
	(a) Date: 30-0ct-17	
	REGISTRAR Dr. M.G.R.	
	Educational and Research Institute	
	Dr.M.G.R.Educational and Research Institute University (Decl. u/s 3 of UGC Act, 1965)	
Ī	(iii) Declaration by the applicant(s) Periyar E.V.R. Eigh Road Maduravoyal, Chennal - 800 095.	_
	I/We the applicant(s) hereby declare(s) that:-	
	am/We are in possession of the above-mentioned invention.	
1	The provisional/emplate specification relating to the invention is filed with this application.	
ł	☐ 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	į
	of patent to me/us.	
	There is no lawful ground of objection(s) to the grant of the Patent to me/us.	
	☐ I am/we are the true & first inventor(s).	
	1 am/we are the assignee or legal representative of true & first inventor(s).	
	☐ The application or each of the applications, particulars of which are given in Paragraph- 8, was	
	the first application in convention country/countries in respect of my/our invention(s).	
	☐ I/We claim the priority from the above mentioned application(s) filed in convention	ĺ
	country/countries and state that no application for protection in respect of the invention had been	ĺ
	made in a convention country before that date by me/us or by any person from which I/Wederive	
8	the title.	
ŀ	13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION	
	(a) Form 2	_
-	Item Details Fee Remarks Complete/provisional Nagage OF	_
	specification)# No pages - 05	
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-	No. of pages Abstract No. of Pages	1000
-	No. of No. of drawings and	-
1	Drawing(s) No. of pages	i

- # 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.
- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority Document (s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventor-ship on Form 5

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

Dated this 30th day of Oct 20 17

(次)對理

d Coplaniver

Dr.M.G.R.Educational and Research Institute

REGISTRAR

Dr. M.G.R.

Educational and Research Institute

To, University
The Controller of Patents!. u/s.3 of UGC Act, 1956)

The Patent Office, at Cherinal E.V.R. High Road

, at Chennal, E. V.R. Fight Nosd Maduravoyal, Chennal - 600 095.

FORM 18 THE PATENTS ACT, 1970 (39 OF 1970)

R.

The patents Rules, 2003 REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT [See section 11B and rule 20(4)(ii), 24B(1)(i)]

(FOR OFFICE USE ONLY)

RQ. No:

Filing Date:

Amount of Fee Paid:

CBR No.

Signature:

APPLICANTS:

1. Dr. MGR Educational and Research Institute,

Poonamalee High Road,

Maduravoyal,

Chennai - 600 095.

India

Email: patent@drmgrdu.ac.in

Mobile No. +91 99444 91791

We hereby request that our application for patent no **201741038349** filed on **30-Oct-2017** for the invention titled "**THERAPEUTIC USE OF 1, 10-PHENANTHROLINE DERIVATIVES**" shall be examined under sections 12 and 13 of the Act.

ADDRESS FOR SERVICE:

Dr. MGR Educational and Research Institute,

Poonamalee High Road,

Maduravoyal,

Chennai - 600 095.

India

Email: patent@drmgrdu.ac.in

Mobile No. +91 99444 91791

Dated this 20th day of February 2021

C. B. Palaminde

For Dr. MGR Educational and Research Institute

REGISTRAR
Dr. M.G.R.

EDUCATIONAL AND RESEARCH INSTITUTE
(Deemed to be University)
Periyar E.V.R. High Road,
Maduravoyal, Chennal 600 095

The Controller of Patents,

The Patent Office at Chennai

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	ne inventor(s) sam t(s) named above			Yes ()				N	0(~)	
If "No", f	furnish the details	of the inver	ntor((s)						
Sl. No	Name in Fu	ıll		Nationalit		Country of Residence	Add	Iress	of the App	olicant
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AGE	141(3)			Nam	Name		SENTHIL KUMAR .B	
			4	Moh	ile No.	98410 7	8077	
				William	ille ivo.	See feed to		
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA				Nam	e	SENTHIL	KUMAR .B	
				Post	al Address	Konnur	16 Ramanuja Nagar, High Road, aram, Chennai 600 023	
				phone No.		200-201		
			-	Mobile No. 98410 78077 Fax No		78077		
				E-mail ID sriipsearcher@gmail.com		rcher@gmail.com		
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12. DECLAR	RATIONS							
(may upload the as	cant is an signment o	assignee: The renctose the	e assi	gnment wit	h this ap	herein below or the applican plication for patent or send the nin the prescribed period)	
We, the abo	ove named invent	or(s) are t	he true & 1	first in	ventor(s) f	or this i	nvention and declare that the	

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SI. No	NAME	SIGNATURE	DATE
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(iii) Declaration by the applicant(s)

We the applicants hereby declare that: -

We are 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 us.
- There is no lawful ground of objection(s) to the grant of the Patent to us.
- We are the true & first inventors.
- □We are the assignee or legal representative of true & first inventors.
- \Box The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).
- □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.
- □Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- ☐ The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.
- □The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION Form 2

ITEM	DETAILS	FEE	REMARKS
Complete Specification (Description part) in form 2	4 Pages		
Claims	2 Pages		
Abstract	1 Page		

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.

- (a) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (b) Sequence listing in electronic form
- (c) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (d) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.
- (e) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (f) Statement and Undertaking on Form 3
- (g) Declaration of Inventorship on Form 5
- (h) Power of Authority

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

Dated this 27th day of October 2017

Signature:

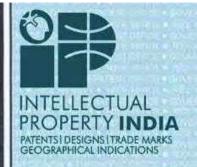
Name:SENTHIL KUMAR .B PATENT AGENT : IN/PA-1549

To

The Controller of Patents
The Patent Office, at Chennai

Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick (②)/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.
- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule||;





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

क्रमांक : 044115378



पेटेंट सं. / Patent No.

325821

आवेदन सं. / Application No.

201941006917

फाइल करने की तारीख / Date of Filing

21/02/2019

पेटेंटी / Patentee

ALLINNOV RESEARCH AND DEVELOPMENT PRIVATE

LIMITED

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित SYSTEM AND METHOD FOR DECOMPOSING ORGANIC AND FOOD WASTE नामक आविष्कार के लिए, पेटेंट अधिनियम, १६७० के उपबंधों के अनुसार आज तारीख 21st day of February 2019 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 SYSTEM AND METHOD FOR DECOMPOSING ORGANIC AND FOOD WASTE as disclosed in the above mentioned application for the term of 20 years from the 21st day of February 2019 in accordance with the provisions of the Patents Act, 1970.

अनुयान की तारीखः 26/11/2019 Department ठी^कElectronics and Communication Engineering

50

Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 21st day of February 2021को और उसके पश्चात प्रत्येक वर्ष्य मे उसी दिन देव होगी।

FORM 30

THE PATENTS ACT, 1970

(39 of 1970)

And THE PATENTS RULES, 2003 TO BE USED WHEN NO OTHER FORM IS PRESCRIBED

[See sub-rule (2) of Rule 8]

Name and Address of the Applicant	ALLINNOV RESEARCH AND DEVELOPMENT PRIVATE LIMITED of the address D. No. 29B, Bairappa Colony, Krishnagiri – 635001, Tamil Nadu, India.				
Application No./Patent No.	201941006917				
Relevant Section & Rules	Section 7(2) and Rule 10				
Purpose of Request	Submission of duly signed Form 1 (Proof of right) in reference to the Patent Application 201941006917				
Details of Request	Submission of duly signed Form 1 (Proof of right) in reference to the Patent Application 201941006917				

Dated this 02nd Day of July 19

Name of the Signatory: Tarun Khurana Regd. Patent Agent [INPA/1325]

Khurana and Khurana, Advocates & IP Attorneys

To,

The Controller of Patents
The Patent Office, at Chennai

FORM 1 (FOR OFFICE USE ONLY) Application: THE PATENTS ACT, 1970 (39 of 1970) No. Filing Date: Amount of Fees Paid: The Patents Rules, 2003 APPLICATION FOR GRANT OF PATENT CBR No: [See section 7,54 & 135 and rule 20(1)] Signature: 1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE) 2. TYPE OF APPLICATION Ordinary (✓) Convention () PCT-NP() Divisional () Patent of Divisional () Patent of Divisional () Patent of Addition () Addition () Addition () 3A. APPLICANT(S) COUNTRY OF NAME NATIONALITY **ADDRESS** RESIDENCE IN D. No. 29B, Bairappa Colony, ALLINNOV RESEARCH AND IN Krishnagiri - 635001, Tamil Nadu, DEVELOPMENT PRIVATE LIMITED India. 3B. CATEGORY OF APPLICANT Other than Natural Person Natural Person () Small Entity () Startup () Others () 4. INVENTOR(S) Are all the inventor(s) same as the Yes() No (√) applicant(s) named above? **COUNTRY OF** NAME NATIONALITY **ADDRESS** RESIDENCE IN Plot No.47, Manideepa Colony. Dr. K NAGAJYOTHI IN Kachivanisingaram, Peerzadiguda. Hyderabad 500088, Telangana, India. IN Flat No-V4/F4, Migh, Begganagar Colony, Dr. MANGALI BALRAJU Muzanali Market, Nampally, Hyderabad, IN Telangana, India. IN Associate Professor, Depatment Of Mechanical Engineering, Government Dr. K. RAMESH IN College Of Technology, Thadagam Road, Coimbatore-13, Tamil Nadu. IN I di_{H.No:2} -5-827/104,Pmr Residency, KLN Dr. SUNKARI JYOTHI IN Reddy Colony, Henamkonda, Warangal, Telangana-506009, India. IN 834/A, Bhagath Singh Nagar, A. UMA SHANKAR KUMAR Vasanthbazar Stop, Kokatpally, IN Hyderabad, Telangana-82, India.

Dr. A. VAMSHI KRISHNA REDDY		IN	IN	Room No: 410, Centre For Environment, Old Ist/Sit Building, Jntuh, Kukatpally, Hyderabad, Telangana-500085, India.		
C. GOPINATH		IN	IN	No-9, F3, Rose Garden, 1st Street, Irumbulay Tambaram, Tamil Nadu-600059, India.		
Dr. B. SUMATHY		IN	IN		ats, No: 10, Thiruvalluvar Street, Chennai, Tamil Nadu-64, India.	
Dr. M. ANAND		IN	IN	Professor, Department Of ECE, Dr. M.G.R. Educational And Research Institute University, Chennai-95, Tamil Nadu, India.		
Dr. S. SATHIYAMURTHY		IN	IN	Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu-600089 India.		
K.S. SREENIVASAN		IN	IN	Flat C, II Floor, Plot C2, Iniya Illam Avenue, Bagiyam Nagar 4th Street, Sembakkam, Chennai-73, Tamil Nadu, India.		
Dr. K. BABU		IN	IN	Assistant Professor, Department Of Civil Engineering, Bannari Amman Institute Of Technology, Sathyamangalam, Erode-638401, Tamil Nadu, India.		
BEERAM SUDHARSHAN REDDY		IN	IN	Associate Professor And Hod, Department Of Civ Engineering, Narsimha Reddy Engineering Colleg Secunderabad, Hyderabad, Telangana- 500100, In		
S.M. ABDUL MANNAN HUSAIN		IN	IN	Associate Professor, Department Of Civil Engineering, Narsimha Reddy Engineering College Secunderabad, Hyderabad, Telangana- 500100, In		
		AND METHO	WAST	E	ANIC AND FOOD	
6. IN CASE	OF APPLICATI , PARTICULARS	ON CLAIMING OF CONVE	NG PRIORITY NTION APPLI	OF APPLICATION	ON FILED IN CONVENTION	
Country	Application No.	Filing Date	Name of Applicant	Title of Invention	IPC (as classified in the convention country)	
- 1						
7. IN CASE APPLICA	OF PCT NATIO	NAL PHASE DER PATEN	APPLICATION F CO-OPERAT	N, PARTICULAR	S OF INTERNATIONAL	
	International				onal filing date as allotted by the receiving office	
Nil				Nil		

8. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION Original (First) Application No. Date of filing of Original (First) Application Nil 9. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT Main Application/Patent No. Date of filing of Main Application Nil Nil

10. DECLARATIONS

(i) Declarations by Inventor(s)

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

Date

Signature

Name(s)

Dr. K NAGAJYOTHI

(ii) Declaration by the Applicant(s) in the convention country

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

Date: Signature:

Name(s)

(iii) Declaration by the Applicant(s)

I/We hereby declare(s) that

- ✓ We are in possession of the above mentioned invention.
- ✓ 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 patent to me/us.
- ✓ We are the assignee or legal representative of true & first Inventors.
- The application or each of applications, particulars of which are given in para 5 was the first application in convention country / countries in respect of my/our invention.

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Name(s)

Signature

A. UMA SHANKAR KUMAR

(ii) Declaration by the Applicant(s) in the convention country

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

Date: Signature:

Name(s)

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Signature

Name(s)

Dr. A. VAMSHI KRISHNA REDDY

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Name(s)

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8. IN CASE OF DIVISIONAL APPLICATION ORIGINAL (FIRST) APPLICATION	FILED UNDER SECTION 16, PARTICULARS OF
Original (First) Application No.	Date of filing of Original (First) Application
Nil	Nil
9. IN CASE OF PATENT OF ADDITION APPLICATION OR PATENT	FILED UNDER SECTION 54, PARTICULARS OF MAIN
Main Application/Patent No.	Date of filing of Main Application
Nil	Nil
10. DECLARATIONS	
(i) Declarations by Inventor(s)	
We, the above named inventor(s) is/are the tr that the applicant(s) herein is/are my/our assigned	ue & first inventor(s) for this invention and declare e or legal representative.
Date	
Signature 95000	
Name(s) Dr. S. SATHIYAMUR	ГНУ
(ii) Declaration by the Applicant(s) in the con-	
We, the Applicant(s) in the convention countrassignee or legal representative.	ry declare that the applicant (d) herein is/are my/our
Date: Signature:	
Name(s)	
(iii) Declaration by the Applicant(s)	
I/We hereby declare(s) that	
✓ We are in possession of the above men	tioned invention.
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Original (First) Application No.	Date of filing of Original (First) Application
Nil	Nil
9. IN CASE OF PATENT OF ADDITION FILED APPLICATION OR PATENT	UNDER SECTION 54, PARTICULARS OF MAIN
Main Application/Patent No.	Date of filing of Main Application
Nil	Nil
10. DECLARATIONS	
(i) Declarations by Inventor(s)	
We, the above named inventor(s) is/are the true & first	inventor(s) for this invention and declare
that the applicant(s) herein is/are my/our assignee or legal	
Date	
Signature BSMcddy	
Name(s) BEERAM SUDHARSHAN RE	DDV
(ii) Declaration by the Applicant(s) in the convention c	
We, the Applicant(s) in the convention country declare assignee or legal representative.	that the applicant (d) herein is/are my/our
Date: Signature:	
Name(s)	
(iii) Declaration by the Applicant(s)	
I/We hereby declare(s) that	
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convention country / countries in respect of my/	ars of which are given in para 5 was the first application in our invention.
,	

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- We claim priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention has been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- I Our application is based on International application under Patent Cooperation Treaty 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 N/A 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.

13. Following are the attachments with the application: (General Requirements)

Form 2

Item	Details	Fee	Remarks
Complete/ Provisional specification	No. of pages: 12		
No. of Claim(s)	No. of claims: 10 and No. of pages:03		
Abstract	No. of pages: 02		
No. of Drawing(s)	No. of Drawings:02 and No. of pages: 02		

- b. Statement and Undertaking on Form 3
- c. Declaration of Inventorship on Form 5
- d. Power of Authority

e. Official fee Rs	Cheque No	Bank
I/We declare that to the be	st of my/our knowledge, i	nformation and belief the fact and matters at all in

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

Dated this: 02nd day of July , 2019

Signature

Name of the signatory

TARUN KHURANA [IN/PA-1325] AGENT FOR THE APPLICANT

Khurana & Khurana, Advocates and IP Attorneys

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



FORM 5 THE PATENTS 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).

DR.R.SHOBARANI ASSOCIATE PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, DR.M.G.R EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95, TAMILNADU.

DR.A.PREMA ASSOCIATE PROFESSOR, **DEPARTMENT OF COMPUTER SCIENCE,** SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, VELAN NAGAR, P.V. VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI-600 117

DR.R. RENUGA DEVI ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES,

E 2	VELAN NAGAR	, P.V.VAITHIY	TECHNOLOGY AND ADVANCED STUDIES, ALINGAM ROAD, 117
941029682/For	Hereby declare the Provisional specion numbered 2. Inventor(s)	, nat the true fications fi	and first inventor(s) of the invention disclosed in the led in pursuance of our application dated is Address ASSOCIATE PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL. CHENNAI-95 AT 2470772019 15:45 ication Engineering as and Awards(10)-Number of Patents published/awarded
201	Name	Nationality	Address
9/61179/	Dr. R. SHOBARANI	Indian	ASSOCIATE PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95
PATENT Department Key Indicato	OFFICE of Electronics and r-3.4.3 Research	L L H E N N d Commun Publication	AT 24 / 0 7 / 2 0 1 9 1 5 : 4 5 ication Engineering ns and Awards(10)-Number of Patents published/awarded

	DR.A.PREMA	Indian	ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, VELAN NAGAR, P.V.VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI- 600 117
	DR.R. RENUGA DEVI	Indian	ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, VELAN NAGAR, P.V.VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI-600117
3/61179/201941029682/Form 5	Dr. G. VICTO SUDHA GEORGE	Indian	PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95
	Mrs. C. TAMILSELVI	Indian	ASSISTANT PROFESSOR COMPUTER SCIENCE AND ENGINEERING, Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95
	Dr. M. JANAKIRANI	Indian	PROFESSOR ELECTRONICS AND COMMUNICATION ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95.
	Dr. T. VIMALA	Indian	ASSOCIATE PROFESSOR ELECTRONICS AND COMMUNICATION ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95
	Dr.T.KALAI CHELVI	Indian	PROFESSOR COMPUTER SCIENCE AND ENGINEERING PANIMALAR INSTITUTE OF TECHNOLOGY, (Affiliated to Anna University) NO.391, BANGALORE TRUNK ROAD, VARADHARAJAPURAM, POONAMALLEE, CHENNAI-600123
	R. SUREKHA	Indian	PANIMALAR INSTITUTE OF TECHNOLOGY, (Affiliated to Anna University) NO.391, BANGALORE TRUNK ROAD, VARADHARAJAPURAM, POONAMALLEE, CHENNAI-600123 ASSISTANT PROFESSOR COMPUTER SCIENCE ST. ANNE'S ARTS AND SCIENCE COLLEGE (AFFILIATED TO UNIVERSITY OF MADRAS) MADAVARAM, CHENNAI-110 A Lation Engineering 2 0 1 9 1 5 4 5 Ons and Awards(10)-Number of Patents published/awarded
ATENT Department Key Indicato	OFFICE CI of Electronics and or-3.4.3 Research F	Commui Publicatio	nication Engineering 2 0 1 9 1 5 : 4 5 ons and Awards(10)-Number of Patents published/awarded

T.F.MICHAEL RAJ	Indian	ASSISTANT PROFESSOR, COMPUTER SCIENCE ENGINEERING, SASTRA DEEMED UNIVERSITY, KUMBAKONAM-612001.
B.RAJAKUMAR	Indian	ASSISTANT PROFESSOR, COMPUTER SCIENCE ENGINEERING, SASTRA DEEMED UNIVERSITY, KUMBAKONAM-612001.

Dated this 22nd day of July 2019

Signature

Name of Signatory:

DR.R. RENUGA DEVI

3. Declaration to be given when the application in India is field by the applicants in the convention country:

We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s)

Dated this 22nd day of July 2019

1. DR.R.SHOBARANI

2.



3. **DR.R. RENUGA DEVI**

Signature



FORM 5 THE PATENTS 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).

DR.R.SHOBARANI ASSOCIATE PROFESSOR, COMPUTER SCIENCE AND ENGINEERING, DR.M.G.R EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95, TAMILNADU.

DR.A.PREMA ASSOCIATE PROFESSOR, **DEPARTMENT OF COMPUTER SCIENCE,** SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, VELAN NAGAR, P.V. VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI-600 117

DR.R. RENUGA DEVI ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES,

E 2	VELAN NAGAR,	P.V.VAITHIY	TECHNOLOGY AND ADVANCED STUDIES, ALINGAM ROAD, 117
341029682/For	Hereby declare the Provisional specion numbered 2. Inventor(s)	, nat the true fications fi	and first inventor(s) of the invention disclosed in the led in pursuance of our application dated is Address ASSOCIATE PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL. CHENNAI-95 AT 24/07/2019 15: 45 ication Engineering as and Awards(10)-Number of Patents published/awarded
201	Name	Nationality	Address
9/61179/	Dr. R. SHOBARANI	Indian	ASSOCIATE PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL. CHENNAI-95
PATENT Department Key Indicato	OFFICE of Electronics and r-3.4.3 Research	LHENN COmmun Publication	AT 24/07/2019 15:45 ication Engineering and Awards(10)-Number of Patents published/awarded

55

	DR.A.PREMA	Indian	ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, VELAN NAGAR, P.V.VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI- 600 117
	DR.R. RENUGA DEVI	Indian	ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE, SCHOOL OF COMPUTING SCIENCES, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, VELAN NAGAR, P.V.VAITHIYALINGAM ROAD, PALLAVARAM, CHENNAI-600117
3/61179/201941029682/Form 5	Dr. G. VICTO SUDHA GEORGE	Indian	PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95
	Mrs. C. TAMILSELVI	Indian	ASSISTANT PROFESSOR COMPUTER SCIENCE AND ENGINEERING, Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95
	Dr. M. JANAKIRANI	Indian	PROFESSOR ELECTRONICS AND COMMUNICATION ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95.
	Dr. T. VIMALA	Indian	ASSOCIATE PROFESSOR ELECTRONICS AND COMMUNICATION ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95
	Dr.T.KALAI CHELVI	Indian	PROFESSOR COMPUTER SCIENCE AND ENGINEERING PANIMALAR INSTITUTE OF TECHNOLOGY, (Affiliated to Anna University) NO.391, BANGALORE TRUNK ROAD, VARADHARAJAPURAM, POONAMALLEE, CHENNAI-600123
	R. SUREKHA	Indian	PANIMALAR INSTITUTE OF TECHNOLOGY, (Affiliated to Anna University) NO.391, BANGALORE TRUNK ROAD, VARADHARAJAPURAM, POONAMALLEE, CHENNAI-600123 ASSISTANT PROFESSOR COMPUTER SCIENCE ST. ANNE'S ARTS AND SCIENCE COLLEGE (AFFILIATED TO UNIVERSITY OF MADRAS) MADAVARAM, CHENNAI-110 A Lation Engineering 2 0 1 9 1 5 4 5 Ons and Awards(10)-Number of Patents published/awarded
ATENT Department Key Indicato	OFFICE CI of Electronics and or-3.4.3 Research F	Commui Publicatio	nication Engineering 2 0 1 9 1 5 : 4 5 ons and Awards(10)-Number of Patents published/awarded

T.F.MICHAEL RAJ	Indian	ASSISTANT PROFESSOR, COMPUTER SCIENCE ENGINEERING, SASTRA DEEMED UNIVERSITY, KUMBAKONAM-612001.
B.RAJAKUMAR	Indian	ASSISTANT PROFESSOR, COMPUTER SCIENCE ENGINEERING, SASTRA DEEMED UNIVERSITY, KUMBAKONAM-612001.

Dated this 22nd day of July 2019

Signature

Name of Signatory:

DR.R. RENUGA DEVI

3. Declaration to be given when the application in India is field by the applicants in the convention country:

We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s)

Dated this 22nd day of July 2019

1. DR.R.SHOBARANI

2.

3. **DR.R. RENUGA DEVI**

Signature

FORM 18 THE PATENTS ACT, 1970 (39 OF 1970)

Q.

The patents Rules, 2003 REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT [See section 11B and rule 20(4)(ii), 24B(1)(i)]

(FOR OFFICE USE ONLY)

RQ. No:

Filing Date:

Amount of Fee Paid:

CBR No.

Signature:

APPLICANTS:

1. Dr. MGR Educational and Research Institute,

Poonamalee High Road,

Maduravoyal,

Chennai - 600 095.

India

Email: patent@drmgrdu.ac.in

Mobile No. +91 99444 91791

We hereby request that our application for patent no **201741038990** filed on **02-Nov-2017** for the invention titled "**WIRELESS INTERFERENTIAL THERAPY UNIT**" shall be examined under sections 12 and 13 of the Act.

ADDRESS FOR SERVICE:

Dr. MGR Educational and Research Institute,

Poonamalee High Road,

Maduravoyal,

Chennai - 600 095.

India

Email: patent@drmgrdu.ac.in

Mobile No. +91 99444 91791

Dated this 20th day of February 2021

C. B. Palamirow

For Dr. MGR Educational and Research Institute

Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
(Deemed to be University)
Periyar E.V.R. High Road,
Maduravoyal, Chennai 600 095

The Controller of Patents, The Patent Office at Chennai

FORM 1	DRM 1							(FOR	OF	FICE USE O	NLY)	
THE PATENTS ACT 1970 (39 OF 1970) and												
THE PAT	ENTS RULES, 2003	3										
APPLICA	ATION FOR GRANT	T OF PATEN	Т									
(See sec	tion 7, 54 and 135	and sub-ru	le (1) of rule 20)								
						lication No	١.					
						g date:						
					Amo	ount of fee	paid:					
					CBR	No:						
					Sign	ature:						
	APPLICANT'S REF	-										
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	TYPE OF APPLICA	TION [Pleas	e tic			riate categ	ory)					
Ordinary				Convention (` ,	T				-NP ()		
Division	al ()	Patent of		Divisional ()	Patent of		[)ivi	sional ()	Patent of	
		Addition ()			Addition	()				Addition ()	
	PLICANT(S)											
Name in	r Full		Na	ationality		ntry of		Addr	ess	of the App	licant	
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	Dr.MGR Educational and			DIAN	INDI	Α		House No.				
Resear	ch Institute Univ	ersity					T	Street		Maduravoy	ral	
										Chennai		
								State Tamil Na		Tamil Nadu	du	
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								Pin code 600095				
	EGORY OF APPLIC	ANT [Pleas					gory]					
Natural	person ()			ther than Nat	ural f							
			Sı	Small Entity () Startu			up () Others (🗸)				/)	
4.	INVENTOR(S) [Ple	ease tick ()	at th	e appropriate	cate	gory]						
	he inventor(s) san			Yes ()					No	o (🗸)		
applican	it(s) named above	;?										
If "No",	furnish the details	of the inve	ntor	(s)								
Sl. No	Name in F	ull		Nationality				Address of the Applicant			licant	
					Residence							
1	Dr. S.SUDHAK	AR PhD		INDIAN		INDIA					oal, Faculty of	
											apy, Dr.MGR I and Research	
										Institute Ur		
											al, Chennai	
										600095, Ta		
										, -		

TITLE OF TH	IE INVENTION : WI	RELESS	INTERF	EREN	ITIAL TH	HERAP	Y UNIT		
	5. AUTHORISED REGISTERED PATENT AGENT(S)				IN/PA NO.		IN/PA-1549		
AGI	EIVI(3)			Name		SENTHIL K	UMAR .B		
					e No.	98410 780	77		
7. ADDRESS	FOR SERVICE OF A	PPLICANT	IN	Name		SENTHIL K	UMAR .B		
INDIA				Postal	Address	Konnur Hi	Ramanuja Nagar, gh Road, am, Chennai 600 023		
				Teleph	none No.	, , , , , , , , , , , , , , , , , , , ,	,		
				Mobil		98410 78	077		
				Fax No E-mail	_	sriipsear	cher@gmail.com		
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	RS OF CONVENTION			APPLIC	ATION FILE	D IN CO	NVENTION COUNTRY,		
Country	Application	Filing	Name of t	the	Title of th	e	IPC (as Classified in th	е	
•	Number	date	Applicant		invention		Convention Country)		
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internation	-NA-	DC1		""	ternational	ming da	-NA-		
10. IN CAS APPLICATI		PPLICATIO	ON FILED UN	DER SE	CTION 16,	PARTICU	LARS OF ORIGINAL (FIR	RST)	
Original (fi	rst) application No.				Date of filing	g of origi	nal (first) application		
	-NA-						-NA-		
PATENT		DITION FI	ILED UNDER				S OF MAIN APPLICATIO	N OR	
Main appli	ication/patent No.			Date of filing main application					
12. DECLA	RATIONS								
(i)	upload the assignm	nt is an as	ssignee: The nclose the a	ssignm	nent with t	his appli	ein below or the applica cation for patent or se in the prescribed period	end the	

We,	the above	named	inventor(s)	are the	true	& firs	t inventor(s)	for	this	invention	and	declare	that	the
applicant(s) herein is/are my/our assignee or legal representative.														

INVENTORS

SI. No	NAME	SIGNATURE	DATE	
1	Dr. S.SUDHAKAR			
2				
3				

(ii) Declaration by the applicant(s) in the Convention Country (In case the applicant in India is different from 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.

- (a) Date
- (b) Signature(s)
- (c) Name(s) of the Signatory

(iii) Declaration by the applicant(s)

We the applicants hereby declare that: -

We are 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 us.
- □There is no lawful ground of objection(s) to the grant of the Patent to us.
- **■We are the true & first inventors.**
- □We are the assignee or legal representative of true & first inventors.
- ☐ The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).
- □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.
- □Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- \Box The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under section 16 of the Act.
- □The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

ITEM	DETAILS	FEE	REMARKS
Complete Specification (Description part) in form 2	6 Pages		
Claims	1 Page		
Abstract	1 Page		
Drawings	4 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.

- (a) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (b) Sequence listing in electronic form
- (c) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (d) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.
- (e) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (f) Statement and Undertaking on Form 3
- (g)-Declaration of Inventorship on Form 5
- (h) Power of Authority

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

Dated this 01st day of November 2017

Signature:

Name:SENTHIL KUMAR .B PATENT AGENT : IN/PA-1549

To

The Controller of Patents
The Patent Office, at Chennai

Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick (②)/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.
- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule||;

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6, 5	THE PATENTS ACT 1970 (39 of 970) and			OFFICE US	SE ONLY)	
THE PATE				tion No.	20194102346	
THE	PATENTS RU	JLES, 2003	Filing da	ate:	13-06-2019	
APPLICAT	TION FOR GR.	ANT OF PATENT	Amount	of Fee	İ	
(See section	n 7, 54 and 13	35 and sub-rule (paid:		8800 l-	
	of rule 20	D)	CBR No	·	18926	
			Signatu	re: 	Λ	
	T'S REFEREN					
IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					F13(*)	
2. TYPE OF A	PPLICATION	[Please tick () a	t the approp			
Ordinary (√)		Convention ()		PCT-NP	()	
Ordinary (√) Divisional () Patent of Addition ()						
Divisional ()		Divisional ()	Patent of Addition ()	Divisiona	el () Patent of	
	Addition ()		, , , , ,		Addition ()	
				<u> </u>		
3A. APPLICA	NT(S)	<u> </u>	Country of	1		
Name in Full		Nationality	Country of Residence		Address of the Applicant	
	· ·			House No	D. -	
				Street	Maduravoyal	
Dr. MGR Edu	cational and	INDIAN	INDIA	City	Chennai	
Research Ins	titute			State	Tamil Nadu	
				Country	India	
				Pin code	600095	
3B. CATEGO	DRY OF APP	LICANT [Please	tick () at tl	he appropi	riate category	
		Other than	n Natural Pers	son		
Natural Persor	n()	Small Ent	ity ()	Startup () Others (√)	
4. INVENTOR	R(S) [Please	tick ()) at the ap	propriate c		, June 19 (v)	
Aro all the terr	ntor(a) aces		.	- 		
ALE ALLIDE 10V6	nt(s) named	Yes ()	No	(√)		
as the applicar	3B. CATEGORY OF APPLICAN Natural Person () 4. INVENTOR(S) [Please tick ()) Are all the inventor(s) same as the applicant(s) named above? ATENT OFFICE CHE		(65()			

Name in Full	Nationality	Country of Residence		Address of the Inventor		
			House No.	-		
•			Street	Faculty of Physiotherapy, Dr. MGF Educational and Research Institute, Maduravoyal		
V.Rajalaxmi	INDIAN	INDIA	House No Street Faculty of Physiotherapy, Dr. MC Educational and Research Institute, Maduravoyal City Chennai State Tamil Nadu Country India Pin code 600095 House No Street Faculty of Physiotherapy, Dr. MC Educational and Research Institute, Maduravoyal City Chennai State Tamil Nadu Country India Pin code 600095 suring the Muscle strength NIL NIL NIL Registrar Dr. MGR Educational and Research Institute,			
			State	Tamil Nadu		
•			Country	India		
			Pin code	600095		
			House No.	-		
			Street			
P.Bharath Kumar	INDIAN	INDIA	City	Chennai		
•			State	Tamil Nadu		
			Country	India		
			Pin code	600095		
5. TITLE OF THE INVENT	ON		<u> </u>			
An Appara	tus and Me	thod of Mea	asuring the	Muscle strength		
6. AUTHORISED		IN/ PA No.				
REGISTERED PATENT AGENT(S)	Name		NIL			
	Mobile N	lo.	NIL			
	Name	· · · · · · · · · · · · · · · · · · ·	Registrar			
7. ADDRESS FOR SERVICE OF APPLICANT	Postal A	ddress	Dr. MGR Educational and Research Institute, Maduravoyal, Chennai 600095, Tamil Nadu, Indi			
N INDIA	Telepho	ne No.	-			
	Mobile N	10.	+91 917612	3939		
	Fax No.					
•	E-mail II	E-mail ID		patent@drmgrdu.ac.in		

CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application	Filing	Name of the	Title of the	IPC (as classified in the
Country	Number	date	applicant	invention	convention country)
				CATION, PART	ICULARS OF INTERNATIONAL ATY (PCT)
Inte	rnational applic	ation numbe	er	Inter	rnational filing date
	SE OF DIVISI L (FIRST) API			LED UNDER SI	ECTION 16, PARTICULARS OF
Or	riginal (first) app	lication No.		Date of filing	of original (first) application
11. IN CA	SE OF PATE	NT OF ADD	OITION FILED	UNDER SECTI	ON 54,
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N	Main application/	patent No.		Date of fi	ling of main application
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			_		erein below or the applicant may
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assign	iment by postei	ectronic trai	ismission duly a	iuthenticated witi	nin the prescribed period).
100/-	• 41		V 1 a 4	0.61.41.4	
		•		·) for this Invention and declare that
		_	iui assignee or i	legal representati	ve.
(a)	Date 13/6/1	7			
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, /					
V.F	Rajalaxmi			P	Bharath Kumar

(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 lour assignee or legal representative.

(a) Date 13/6/19

B. Elanion

AND RESEARCH INSTITUTE

FOR Dr. MGR Edwestic Harring, Research Institute

Maduravoyal, Chennai 600 095

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that:-

- am/We are in possession of the above-mentioned invention.
- The provisional/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(s) to the grant of the Patent to me/us.
- I am/we are the true & first inventor(s).
- I am/we are the assignee or legal representative of true & first inventor(s).
 - The application or each of the applications, particulars of which are given in Paragraph 8, was the first application in convention country/countries in respect of my/our invention(s).

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/ previsional specification)#	No. of pages 14		
No. of Claim(s)	No. of claims and a No. of pages 3		
Abstract	No. of pages		
No. of Drawing(s)	No. of drawings and 2 No. of pages 2		

- # 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.
- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority Document (s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventor-ship on Form 5
- (i) Power of Authority

Total fee	in Cash/ Banker's	Cheque /Bank D	raft bearing No

Date.....Bank.

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

Dated this 13th day of June 20 19

Dr. M.G.R.

Dr. M.G.R.

FOR Dr. MGR Educational annia Buse of the Institute (Deemed to be University)

Periyar E.V.R. High Road.

Madurayoyal, Chemna out 195

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The Controller of Patents

The Patent Office, at. Chennai.



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as the applicar above?	t(s) named	Yes.()	Yes.()		V)		
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				House No.	L6, Alayam Avenue
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Dr. A. Sh	naw Nawaz Khan	INDIAN	INDIA		
		Street Tharapakkam Village, T City Chennai State Tamil Nadu Country India Pin code 600105 IE INVENTION Appliance for Prevention of ECHO in Auditorium D IN/ PA No. NIL Name NIL Mobile No. NIL Name Registrar Postal Address Dr.M.G.R.Educational and Research In Maduravoyal, Chennai, Tamil Nadu - 6 Mobile No. Fax No. 044-23782176 APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN COUNTRY, PARTICULARS OF CONVENTION APPLICATION APPLICATION Filing Name of the Title of the IPC (as classified in IPC) IN/ PA No. Dille Dille No. Dil	C 4100 100 A-4 (1) (1-4 (1) (1-4 (1) (1-4 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
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PARTICULARS OF MAIN APPLICATION OR PATENT Main application/patent No. Date of filing of main application

12. DECLARATIONS

(i) Declaration by the inventor(s)

(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).

I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date 30-Oct-17



Dr. A. Shaw Nawaz Khan

(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.

(a) Date 30-Oct-17

& C-B. Palarinel

REGISTRAR Dr. M.G.R.

FOR Dr. M.G.R. Educational and Research Institute parch Institute

University

(iii) Declaration by the applicant(s)

(Decl. u/s.3 of UGC Act, 1956)

I/We the applicant(s) hereby declare(s) that ravoyal, Chennai - 600 095

I am/We are in possession of the above-mentioned invention.

The provisional/eomplete specification relating to the invention is filed with this application.

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13. FOLLOWING AR	E THE ATTACHMENT	S WITH THE	APPLICATION				
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Complete/provisional specification)#	No. of pages 05						
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I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention. Dated this 30th day of 0ct 20 17	
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C. B. P ப்வப்சட்ட FOR Dr.M.G.R.Educational and Research Institute REGISTRAR	
To, Educational and Research Institute	
The Controller of Patents Spirorsby	

The Patent Office, at Chennai. (Sect. uls.3 of USO Act, 1956)

Perlyar E. E. C. Fright Road

Maduravoyal, Chennal - 690-095.





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City Chennai State Tamil Nadu Country India Pin code 600122 5. TITLE OF THE INVENTION Radio-activated 5-Fu for GIT Cancers 6. AUTHORISED REGISTERED PATENT AGENT(S) IN/ PA No. NIL Name NIL Mobile No. NIL Name Registrar Postal Address Dr. M.G.R. Educational and Rese Maduravoyal, Chennai, Tamil Nac Telephone No. 044-23782176 Mobile No. Fax No. 044-23783165 E-mail ID patent@drmgrdu.ac.in 8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED II CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION Country Application Filing Name of the applicant Title of the invention Convention of Convention of Convention Filed Under Patent CO-OPERATION TREATY (PCT) International application number International filing date 10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PART ORIGINAL (FIRST) APPLICATION
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5. TITLE OF THE INVENTION Radio-activated 5-Fu for GIT Cancers 6. AUTHORISED REGISTERED PATENT AGENT(S) Name NIL Name NIL Name NIL Name Registrar Postal Address Dr. M.G.R. Educational and Rese Maduravoyal, Chennai, Tamil Nac Telephone No. 044-23782176 Mobile No. Fax No. E-mail ID patent@drmgrdu.ac.in 8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED II CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION Country Application Number Filing date Name of the applicant invention Title of the invention PC (as classiff invention) International application number International filing date
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7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA Postal Address Telephone No. Mobile No. Fax No. E-mail ID Dr. M.G.R. Educational and Rese Maduravoyal, Chennai, Tamil Nac O44-23782176 Mobile No. Fax No. E-mail ID patent@drmgrdu.ac.in 8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED II CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION Country Application Number Application Number Filing date Name of the applicant Title of the invention IPC (as classif invention convention of con
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11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54,
PARTICULARS OF MAIN APPLICATION OR PATENT
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12. DECLARATIONS
12. DECEMBATIONS
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(i) Declaration by the inventor(s)

(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).

I/We, the above named inventor(s) is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date 0 |- Nov - 17

(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.

01-11-17 (a) Date

C.B. Palaminh

Dr. M.G.R. Educational and Research Institute

Dr.M.G.R.Educational and Besegreh Institute

Periyar E.V.R. High Road

(iii) Declaration by πθε αρβιταπτίς. 600 095.

i/We the applicant(s) hereby declare(s) that:-

I am/We are in possession of the above-mentioned invention.

The provisional/complete specification relating to the invention is filed with this application.

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mentioned here.

	The invention as disclosed in the specification uses the biological material from India and the						and the	
ž Č	necessary permission from the competent authority shall be submitted by me/us before the grant							
	of patent to	of patent to me/us.						
اليلا	There is no lawful ground of objection(s) to the grant of the Patent to me/us.							
٥	I am/we are the true & first inventor(s).							
W	I am/we are	the assignee	or legal rep	resentat	ive of true	& first inventor(s).		
	The applica	tion or each of	the applica	ations, pa	articulars o	f which are given	in Paragrapl	1- 8, was
	the first app	lication in conv	ention cou	ntry/cou	ntries in res	spect of my/our inv	ention(s).	
	I/We claim	the priority	from the	above	mentione	d application(s)	filed in co	nvention
	country/cou	ntries and state	e that no ap	plication	for protect	ion in respect of th	e invention h	nad been
	made in a co	onvention cour	try before t	hat date	by me/us o	or by any person fro	om which I/M	/e derive
	the title.							
	My/our appl	ication in India	is based or	n internat	tional applic	cation under Pater	nt Cooperatio	on Treaty
Ris Madellott	20-00 AVEC-1014	entioned in Pa			33 - 310X			€ U2
	The application is divided out of my /our application particulars of which is given in Paragraph-							
238 4	10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY							
	under section 16 of the Act.							
		The said invention is an improvement in or modification of the invention particulars of which are						
	given in Paragraph-11.							
13. FOLL	OWING AR	E THE ATTA	CHMENTS	S WITH	THE APP	LICATION		- 0 ' 100'00
(a) Form 2	2							
Item		Details	2.05	Fee		Remarks		
Gomplete/provisional No specification)#		No. of pages	05	Ì				
No. of Clair	m(s)	No. of claims	and OI		-		*	
GENE STO		No. of pages	0	·	success of the second second	VII.	(6)	
Abstract	a Hawka Walk	No. of pages		İ	NV 50 000043			1994
No. of	2 88823.900	No. of drawin	gs and	ļ				
Drawing(s)		No. of pages	h 1000	limb wa		2 10 Mars 1994 Mars 1994	Western W. Internets Pres	7500
# Inc	ase of a com	plete specifica	tion, if the a	pplicant	desires to	adopt the drawing	s filed with h	115
provisio	nal specifica	tion as the dra	wings or pa	rt of the	drawings f	or the complete sp	ecification u	nder
rule 13(4), the number of such pages filed with the provisional specification are required to be								

- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority Document (s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventor-ship on Form 5

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

Dated this 01st day of Nov 20 17

C.B. Palarivel

REGISTRAR
Dr.M.G.R.Educational BRd Pasearch Institute

Educational and Research Institute
University

(Decl. u/s.3 of UGC Act, 1956)

To, Periyar E.V.R. High Road
The Controller of Patentsavoyal, Chennai - 600 095.

The Patent Office, at Chennai.

दिनांक \ Date 41036782

ervice:- Mission Legal Advocates, No.12, Canal Bank Road, Gandhi Nagar, Adyar, Chennai, 600020, Tamil Nadu, Indi @missionlegal.com

प्रावेदन संख्या 201941036782 के संबंध मे अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर मे प्रविष्टि की सूचना tion of the grant and recordal of patent under section 43 of the Act in respect of patent application no. 20194103678

स्चित किया जाता है कि पेटेंट अधिनिय, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व ---त एतदद्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 03/08/2021 को पेटेंट रजिस्टर मे कर दी गयी है।

o Inform you that following the examination of above mentioned patent application under section 12 and 13 of The I es made thereunder [and hearing held on -----] a patent is hereby granted and recorded in the Register of Patents he Patent Certificate is enclosed herewith.

373717 itent No

DR MGR EDUCATIONAL & RESEARCH INSTITUTE UNIVERSITY I \ Name Of Applicant

 12/09/2019 ate of Patent

 12/09/2019 Priority Date

ोध दाखिल करने की तिथि \ Filling : 12/09/2019

lest for examination

• INTEGRATED DESALINATED WATER AND SEA-SALT PRODUCTION SYSTEM

ATOMIZATION-EVAPORATION-CONDENSATION (AEC) PROCESS

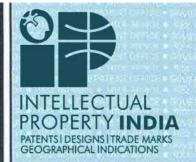
- 1-10 Number of claims

भनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल मे किया जाएगा।

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

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

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





भारत सरकार GOVERNMENT OF INDIA पेटेंट कार्यालय THE PATENT OFFICE पेटेंट प्रमाणपत्र PATENT CERTIFICATE (Rule 74 Of The Patents Rules) क्र<mark>मांक</mark> : ₀₄₄₁₃₂₅₆₇ SL No :



पेटेंट सं. / Patent No. : 373717

आवेदन सं. / Application No. : 201941036782

फाइल करने की तारीख / Date of Filing : 12/09/2019

पेटेंटी / Patentee : DR MGR EDUCATIONAL & RESEARCH INSTITUTE

UNIVERSITY

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित INTEGRATED DESALINATED WATER AND SEA-SALT PRODUCTION SYSTEM USING ATOMIZATION-EVAPORATION-CONDENSATION (AEC) PROCESS नामक आविष्कार के लिए, पेटेंट अधिनियम, १६७० के उपबंधों के अनुसार आज तारीख 12th day of September 2019 से बीस वर्ष की अविध के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled INTEGRATED DESALINATED WATER AND SEA-SALT PRODUCTION SYSTEM USING ATOMIZATION-EVAPORATION-CONDENSATION (AEC) PROCESS as disclosed in the above mentioned application for the term of 20 years from the 12th day of September 2019 in accordance with the provisions of the Patents Act,1970.

INTELLECTIAL

ROPERTY INDIA

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GRAPHICAL INDICATIONS

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अनुदान की तारीख: 03/08/2021 Date of Grant: पेटेंट नियंत्रक Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 12th day of September 2021 को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 12th day of September 2021 and on the same day in every year thereafter.

(FOR OFFICE USE ONLY) FORM 1 THE PATENTS ACT 1970 (39 of 1970) THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT [Section 7, 54 & 135 and sub-rules (1) of rule 20] Application No: Filing Date: Amount of Fee paid: CBR No.: Signature: 1. APPLICANT'S REFERENCE/ IDENTIFICATION NO. (AS ALLOTTED BY OFFICE) 2.TYPE OF APPLICATION Ordinary (✓) Convention () PCT-NP() Patent of Patent Of Divisional () Patent Of Divisional () Divisional () Addition() Addition () Addition () **3A. APPLICANT** Name in Full Nationality Country of Address of the applicant Residence **INDIA** INDIA House No. Advanced Research DR. M.G.R. EDUCATIONAL AND Institute **RESEARCH INSTITUTE UNIVERSITY** NH 4, PERIYAR EVR Street HIGH ROAD, MADURAVOYAL City Chennai Tamilnadu State India Country Pin code 600 095 **3B.** Category of Applicant Natural Person () Other Than Natural Person Small entity () Start up () Others (✓)

4. INVENTOR		
Are all the inventor(s) same as the applicant(s) named above?	Yes()	No (✓)

	·				
		Country of Residence	Address of	the inventor	
Dr. V. Natarajan	Dr. V. Natarajan India		House No.	S1, A Block, Sai Balaji Flats	
			Street	Udayasuryan Nagar, Guduvanchery	
			City	Kancheepuram	
			State	Tamilnadu	
			Country	India	
			Pin code	603 202	
Dr. P. Palanisamy India		India	House No.	No. 59, V Block,	
			Street	11 th Street, Anna Nagar	
			City	Chennai	
			State	Tamilnadu	
			Country	India	
			Pin code	600 040	
5. TITLE OF THE IN	VENTION	l			
PROCESS	ATOMIZATIO			-SALT PRODUCTION ONDENSATION (AEC) 3249	
6. AUTHORISED RE	GISTERED	Name	Saravar	Saravanan Gopalan	
PATENT AGENT		Mobile no.	994101	9941014565	
	Name	Mission	Mission Legal Advocates		
7. ADDRESS FOR SE APPLICANT IN INDI	Postal addre	Gandhi Chenna	Canal Bank Road, Nagar, Adyar i, 600020 Nadu, India		
		Telephone N	No. (044) 4	2046040	
				9941014565	
	Mobile No.	224101			
		Fax No	994101	1000	

8. IN C FILED APPLIC	IN CONVI		CLAIMING OUNTRY, I			THE APPLICATION OF CONVENTION		
Country	Application Number	Filing date Name of the Applicant			Title of the Invention	IPC (as classified in the convention country)		
9. IN CASE OF (PCT) NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT COOPERATION TREATY(PCT)								
Internati	onal application	n number		Int	ernational filing	g date		
Not App	licable			No	ot Applicable			
10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION								
Original	(first) applicati	on No.		Date of filing Original (first) application				
Not Applicable Not Applicable								
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION/PATENT								
Main Application/Patent no. Date of filing of main application								
Not Applicable Not Applicable								
12. DECLARATIONS								
(i) Declaration by the inventor								
(a) Date:								
(b) Signa	ture of the inve	entor:		_				
(c) Name	e: Dr V. Natar	ajan						

(a) Date:
(b) Signature of the inventor: (c) Name: Dr. P. Palanisamy
(ii) Declaration by the applicant(s) in the convention country Not Applicable
(iii) Declaration by the applicant: We, the applicant hereby declare that:- ✓ We are 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 us before the grant of patent to us. ✓ There is no lawful ground of objection to the grant of the Patent to us. □ We are the true & first inventor(s). ✓ We are the assignee of true & first inventor. □ Each of the applications, particulars of which are given in Paragraph-8, was the first application in convention countries in respect of our invention. □ We claim the priority from the above mentioned applications filed in convention 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 or by any person from which we derive the title. □ Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9. _ The application is divided out of my/our application, particulars of which is given in Paragraph-10 and prays that this application may be treated as deemed to have been filed on DD/MM/YY under section 16 of the Act. _ The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph - 11.
13. FOLLOWING ARE THE ATTACHMENTS WITH THE

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION a) Form 2

Item	Details	Fee	Remarks
Complete specification	No. of pages – 12	Rs. 8000/-	Paid online
No. Of Claim(s)	No. Of Claim(s) & No. of pages - 10 & 3		
Abstract	No. of pages – 1		

No. of Drawing(s)	No. of Drawing(s) &	
	No. of pages – 2 & 2	

(b) Drawings

Total Fee of INR 8000/- paid online.

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

Dated this11th day of September 2019

Saravanan Gopalan Applicant Agent (INPA – 3249) Mission Legal Advocates

To,

The Controller of Patents
The Patent Office, at Chennai.