

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 Institute
TITLE OF INVENTION	A PREPAID SMART METER SYSTEM FOR POWER CONSUMPTION AND MONITORING
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
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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. Palanisami
For Dr. MGR Educational And Research institute

To

The Controller of Patents,
The Patent Office at Chennai

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



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

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

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

Address of Applicant :Maduravoyal, Chennai, Tamil Nadu,
India 600095 Tamil Nadu India

(72)Name of Inventor :

1)V Arumugam

2)J. Jayarajan

3)A.Nalini

4)Dr. E. Sheeba Percis

(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

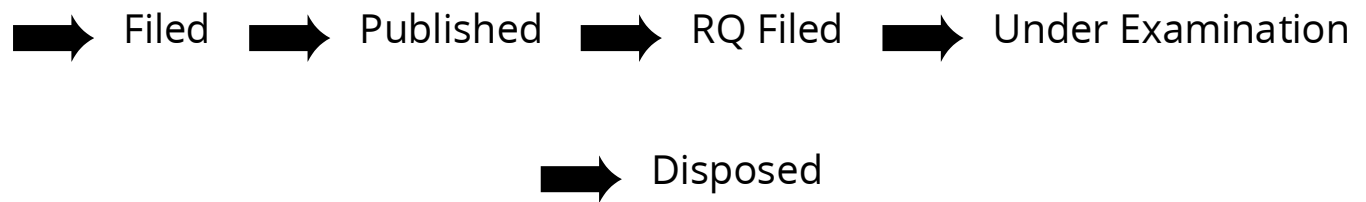
Application Details

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
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[View Documents](#)



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)]

CBR: 377
DATE: 04/01/2019
Att: 01

App No: 201841001276

1. NAME OF APPLICANT(S): KAMATCHI. C, RAJESWARY HARI, K. SUJATHA, NALLAMILLI. P. 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 Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	Kamatchi. C
RAJESWARY HARI	INDIAN	Head and Professor, Department of Biotechnology Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	Rajeswary Hari
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. Sujatha
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, EVR Periyar High Road Chennai, India.	P.G Bhavani
K. SENTHIL KUMAR	INDIAN	Professor, Dept. of ECE Dr.MGR Educational & Research Institute, EVR Periyar High Road, Maduravoyal, Chennai	K. Senthil Kumar
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	S. Kanimozhi
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	S. Mahalakshmi

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,

PATENT G.S.D. Road, Guindy, Chennai - 600032, India. 07/01/2019 14:29



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 Examination
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[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination

Department of Mechanical Engineering

26

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

➡ Disposed



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

24

Within time

16/9/19

177797



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

16-Sep-2019/77797/201941036236/OTHERS

PATENT OFFICE CHENNAI 19/09/2019 14:57

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, MADURAVOYAL, 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

PATENT OFFICE CHENNAI 19/09/2019 14:57

16-Sep-2019 19:77:97/201941036236/OTHERS

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

Dated this. 09/09/2019 Day of 2019

VIKAS ASAWAT  Signature
PATENT AGENT & ADVOCATE Name of the signatory

3. DECLARATION 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

VIKAS ASAWAT  Signature
PATENT AGENT & ADVOCATE Name 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

16-Sep-2019 19:77:97/201941036236/OTHERS

PATENT OFFICE CHENNAI 19/09/2019 14:57

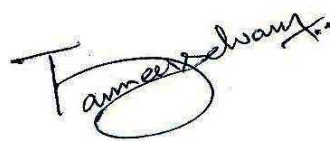
FORM 5
THE PATENTS ACT, 1970
(39 of 1970)
&
The Patent Rules, 2003
DECLARATION AS TO INVENTORSHIP
[See Section 10(6) AND RULE 13(6)]

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)

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. SHANMUGARATHINAM	INDIAN	Department of Pharmaceutical Technology, 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 ..

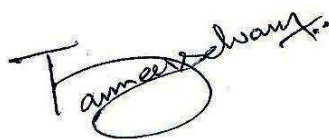
Signature: -

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



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 name 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		
(51) International classification	:C07D0417140000, C07D0413120000, C07D0413140000, C07D0519000000, C07D0241440000	(71)Name of Applicant : 1)Dr. T. PANNEERSELVAM Address of Applicant : BIOSCI TRUST 23/57 Pillayar Koil Street, Kuppinsayakan Patti, Bodinayakanur-625 513 Theni District, Tamilnadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. T. PANNEERSELVAM
(33) Name of priority country	:NA	2)Dr. P. MURALI DHARAN
(86) International Application No	:NA	3)Dr. N. HARIKRISHNAN
Filing Date	:NA	4)Dr. A. SHANMUGARATHINAM
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	: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		

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

60p/19
11/3/19

D/20421



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.

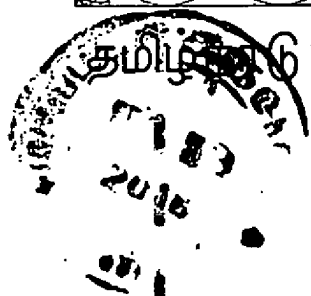
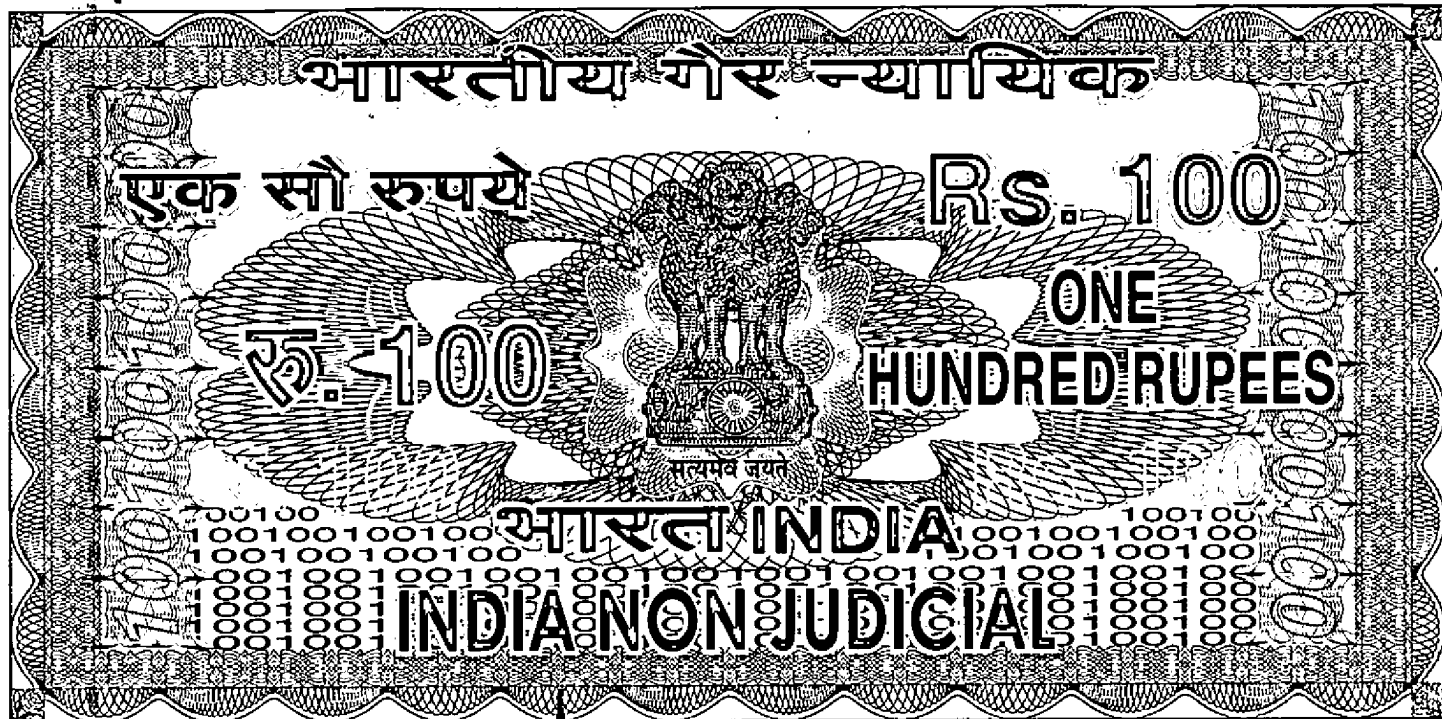
Dated this March 4, 2019

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

11-Mar-2019/20421/201941008362/OTHERS

PATENT OFFICE CHENNAI 12/03/2019 16:20



तमिलनाडु TAMILNADU

Dr. V.N. RAJAVARMAN

05 FEB 2019

BH 953861

R. LAKSHMANAN
STAMPVENDOR
L.C. No 6/772/B3/96
No 261, EVR ROAD,
AMINJIKARAI, CHENNAI-29

FORM 26

THE PATENTS ACT, 1970

(39 of 1970)

&

THE PATENTS RULES, 2003

FORM FOR AUTHORISATION OF A PATENT AGENT IN A MATTER OR
PROCEEDING UNDER THE ACT

(See Section 127 and 132; and rule 135)

I,

(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

T.V. Vivek

T.V. Vivek

R. Gajathurai

R. Gajathurai

11-Mar-2019/20421/201941008362/OTHERS

PATENT OFFICE CHENNAI 12/03/2019 16:20

(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

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:

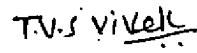
- Filing a Form – 9 (Request for Early Publication)
- Filing a Form – 18 (Request for Examination)

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

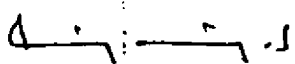
Dated this 05th February, 2019

Applicant's Signature: 

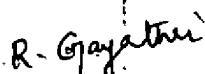
Applicant's Name: **Dr.V.N.RAJAVARMAN**

Applicant's Signature: 

Applicant's Name: **TAMMINEEDI VENKATA SATYA VIVEK**

Applicant's Signature: 

Applicant's Name: **S.ISMAIL KALILULAH**

Applicant's Signature: 

Applicant's Name: **R.GAYATHRI**

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

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)]

(FOR OFFICE USE ONLY)

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

1. APPLICANT(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,

PATENT OFFICE CHENNAI 12/03/2019 16:21

			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.

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 Pvt Ltd, Plot No. 34B, Sai Dwaraka, 1st Floor, HUDA Heights, Near Lotus Pond, MLA Colony, Road No. 12, Banjara Hills, Hyderabad-500034.

Telephone No.: 9381051320

Fax No.: 16-21

Mobile No: 9985974665

E-mail: patentagent@prometheusip.com

Telangana, India.

5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention
--------	---------	--------------------	-------------	-----------------------	------------------------

6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) Application Number	Date of Filing of Original (first) Application
-------------------------------------	--

8. PARTICULARS FOR FILING PATENT OF ADDITION:

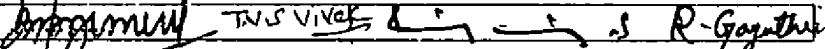
Main Application / Patent Number:	Date of Filing of Main Application
-----------------------------------	------------------------------------

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We, Dr. V.N. RAJAVARMAN, TAMMINEEDI VENKATA SATYA VIVEK, S. ISMAIL KALILULAH, R. GAYATHRI, 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: ----

(b) Signature(s) of the inventor(s): 

(c) Name(s): Dr. V.N. RAJAVARMAN, TAMMINEEDI VENKATA SATYA VIVEK, S. ISMAIL KALILULAH, R. GAYATHRI

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

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

(a) Date: ----

(b) Signature(s) :

(c) Name(s) of the singnatory: Dr. V.N. RAJAVARMAN, TAMMINEEDI VENKATA SATYA VIVEK, S. ISMAIL KALILULAH, R. GAYATHRI

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(iii) Declaration by the applicant(s)

- The Complete specification relating 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
1	CLAIMS UNDER RULE 1 (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 hereing are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date):

04/03/2019

Signature:

Name: Usharani K S

To The Controller of Patents

(IN/PA/2241)

The Patent office at CHENNAI

11-Mar-2019/20421/201941008362/OTHERS

PATENT OFFICE CHENNAI 12/03/2019 16:21

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.
3. 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

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.
8. 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.
9. 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 country	Date of application	Application No.	Status of the application	Date of publication	Date of grant
---------------------	---------------------	-----------------	---------------------------	---------------------	---------------

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

11-Mar-2019/20421/201941008362/OTHERS

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(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 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 |

11-Mar-2019/20421/201941008362/OTHERS

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

11-Mar-2019/20421/201941008362/OTHERS

PATENT OFFICE CHENNAI 12/03/2019 16:21

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** : **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 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

11-Mar-2019/20421/201941008362/OTHERS

<p align="center"> FORM 18 THE PATENTS ACT 1970 (39 OF 1970) & The Patents Rules, 2003 REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT (See section 118 and rule 20(4)(ii), 24B(1)(i)) </p>	<p> Application No: Filing Date: Amount of Fee Paid: CBR No: Signature: </p>
<p>1. APPLICANT (S)</p> <p>(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</p> <p>(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</p> <p>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</p> <p>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</p>	
<p>2. Statement in case of request for examination made by the applicant(s)</p> <p>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.</p>	
<p>3. Statement in case of request for examination made by any other interested person</p> <p align="center">NA</p>	
<p>4. ADDRESS FOR SERVICE</p> <p>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; nrjavarman2003@gmail.com Contact Number: 9985974665</p>	

11-Mar-2019/20421/201941008362/OTHERS

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

11-Mar-2019/20421/201941008362/OTHERS

PATENT OFFICE CHENNAI 12/03/2019 16:21

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@chennai trademark.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](#)

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) International classification	:F03B13/08	(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 code--600095 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

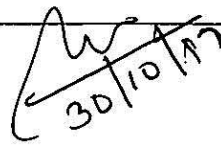
No. of Pages : 17 No. of Claims : 10

THE PATENTS ACT 1970 (39 of 1970) and
THE PATENTS RULES, 2003

APPLICATION FOR GRANT OF PATENT

(See section 7, 54 and 135 and sub-rule (1) of rule 20)

(FOR OFFICE USE ONLY)

Application No. 201741038405
Filing date: 30/10/2017
Amount of Fee paid: 8800/-
CBR No: 33511
Signature: 

1. APPLICANT'S REFERENCE /
IDENTIFICATION NO. (AS ALLOTTED BY
OFFICE)

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

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

3A. APPLICANT(S)

Name in Full	Nationality	Country of Residence	Address of the Applicant	
Dr. MGR Educational and Research Institute	INDIAN	INDIA	House No.	-
			Street	Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095

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

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

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

Are all the inventor(s) same as the applicant(s) named above?
Yes () No (☒)

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

Name in Full	Nationality	Country of Residence	Address of the Inventor	
Dr. S. Chellammal	INDIAN	INDIA	House No.	-
			Street	Department of Physics, Dr. M.G.R. Educational and Research Institute, Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095

PATENT OFFICE CHENNAI 30/10/2017 15:27

5. TITLE OF THE INVENTION**Biosensor Application of Copper Nano Particles****6. AUTHORISED REGISTERED PATENT AGENT(S)**

IN/ PA No.	NIL
Name	NIL
Mobile No.	NIL

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

Name	Registrar
Postal Address	Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095
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 IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

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 CO-OPERATION TREATY (PCT)

International application number	International filing date
-	-

10. 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
-	-

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

-	-
---	---

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. S. Chellammal

PATENT OFFICE CHENNAI 30/10/2017 15:27

(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. Palanivelu
REGISTRAR
Dr. M.G.R.
Dr.M.G.R.Educational and Research 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:
Periyar E.V.R. High Road
Mamburavoyal, Chennai - 600 095

- ☒ I 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).
- ☐ I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/provisional specification)#	No pages - 04		
No. of Claim(s)	No. of claims and No. of pages 2		
Abstract	No. of Pages		
No. of Drawing(s)	No. of drawings and No. of pages 1		
OFFICE OF THE REGISTRAR, PATENT AND TRADE MARKS, CHENNAI 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

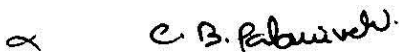
(h) Declaration of Inventor-ship on Form 5

Total fee in Cash/ Banker's Cheque /Bank Draft bearing No. 658453

Date 27th on Oct-17 Bank.

I/We hereby declare that 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 30th day of October 2017



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)

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

Boxing E.V.R. High Road
Maduravoyal, Chennai - 600 095

PATENT OFFICE CHENNAI 30/10/2017 15:27



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
फैक्स / 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

दिनांक/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 में परीक्षण रिपोर्ट (अर्थात, एकस्व नियम, 2003 (यथा संशोधित) के नियम 24-ख(3) में विनिर्दिष्ट आपत्तियों का प्रथम कथन) इसके साथ संलग्न है। यह रिपोर्ट परीक्षण हेतु अनुरोध दिनांक 09/02/2021 के उत्तर में जारी की गयी है। परीक्षण रिपोर्ट का उत्तर दाखिल करने की अंतिम तिथि (अर्थात, इस रिपोर्ट में लगाई गयी सभी आवश्यकताओं के अनुपालन की अवधि) आवेदक को आपत्तियों का प्रथम कथन जारी होने की तिथि से छः माह है।

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 ख(5) में विनिर्दिष्ट अवधि के भीतर अंदर अनुपालन 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 प्रावधानों 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 है कि शीघ्र निपटान हेतु अपना उत्तर शीघ्र प्रस्तुत करें।
You are advised to file the reply at the earliest for early disposal.

Ramesh Vanaparthi
नियंत्रक पेटेंट / Controller of Patents

संलग्न/Enclosed: अपरोक्त अनुसार/As above

टिप्पणी: यह इलेक्ट्रॉनिक रूप से उत्पन्न रिपोर्ट है।

NOTE: This is an electronically generated report.

सभी पत्राचार नियंत्रक एकस्व को उपरोक्त पते पर भेजा जाये।

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

परीक्षण रिपोर्ट /Examination Report

आवेदन संख्या /Application Number	201741038346
दाखिल करने की तिथि /Date of Filing	30/10/2017
पूर्विका दिनांक /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
प्रकाशन की तिथि /Date of Publication	03/05/2019

इस परीक्षण रिपोर्ट के चार भाग हैं, अर्थात् 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

क्र. सं. /Sl. No.	अधिनियम के तहत आवश्यकताओं पर विस्तृत टिप्पणियां /Requirements under the Act		दावों की संख्या /Claim Numbers	टिप्पणी /Remarks
1.	धारा 2(1)(ग) के तहत आविष्कार /Invention u/s 2(1)(j)	नवीनता /Novelty	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1	नहीं /No
		आविष्कारी कदम / Inventive step	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1	नहीं /No
		औद्योगिक उपयोगिता /Industrial Applicability	दावे /Claims: 1	हाँ /Yes
			दावे /Claims:	नहीं /No
2.	धारा 3 के अधीन पेटेंट-अयोग्यता (यदि हाँ, खंड 3(क-त) /Non-patentability u/s 3 (if yes, specify section3(a-p))	दावे /Claims: 1	हाँ /Yes d	
		दावे /Claims:	नहीं /No	
3.	[धारा 10(5) व 10(4) (ग)] के अधीन दावे /Claims [u/s 10(5) & 10(4) (c)]	स्पष्टता/ संक्षिप्तता /Clarity / Conciseness	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1	नहीं /No
		परिभाषिकता /Definitive	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1	नहीं /No
		विवरण द्वारा समर्थित /Supported by description	दावे /Claims:	हाँ /Yes
			दावे /Claims: 1	नहीं /No
4.	अन्य आवश्यकता (हैं) /Other requirement(s): Claim 1 does not constitute an invention under section 2(1)(j) of Indian Patents Act since neither process nor product has been defined, Use per se does not have any inventive technical feature(s).			

भाग -II विस्तृत तकनीकी रिपोर्ट

PART-II: DETAILED TECHNICAL REPORT

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

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

क्र. सं. / Sl.no	दस्तावेजों का विवरण /Details of documents	प्रकाशन तिथि(दिन/माह/वर्ष) / Publication date	उद्धरित दस्तावेज का प्रसंगिक विवरण (पृष्ठ व अनुच्छेद संख्या) / Relevant description (page and paragraph no.) of cited document	उद्धरित दस्तावेज के प्रसंगिक 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 दस्तावेज उद्धृत नहीं है /No Document Cited

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

(1).नवीनता / NOVELTY:

(I) ऊपर उद्धरित दस्तावेज के संदर्भ (1) में दिये गए प्रकटन के पूर्वानुमान को ध्यान में रखते हुए, निम्नलिखित कारणों से दावा(वों) (1) में नवीनता की कमी है /

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 AgNO₃ 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 AgNO₃ solution same volume, molar concentration ratio AgNO₃ 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.

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 based 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, निम्नलिखित कारणों से दावा(वों) (1) में आविष्कारी कदम की कमी है

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) निम्नलिखित 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(l) of the PA, 1970.

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

(I) दावा(वे) 1 विनिर्देश में प्रकट विषय पर आधारित नहीं है अथवा निम्नलिखित कारणों से विनिर्देश में प्रकटन द्वारा समर्थित नहीं है।

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) दावा(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.

(6).परिभाषिकता /DEFINITIVENESS:

(I) दावा(ते)1 निम्नलिखित 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.

(7).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 दस्तावेज़ /PART-IV: DOCUMENTS ON RECORD

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

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

कार्यसूची तिथि / Docket Date	कार्यसूची संख्या /Docket Number	प्रविष्टि 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

नियंत्रक का नाम /Name of the Controller: **Ramesh Vanaparathi**

नियंत्रक स्थान /Controller Location: **Chennai**

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



700173092

P/no: 67093

New App (K) 30/10/17

FORM 1				(FOR OFFICE USE ONLY)	
THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				Application No.	201741038409
				Filing date:	30/10/2017
				Amount of Fee paid:	8800/-
				CBR No:	33511
				Signature:	<i>[Signature]</i>
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick () at the appropriate category]					
Ordinary (<input checked="" type="checkbox"/>)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
Dr. M.G.R. Educational & Research Institute		INDIAN	INDIA	House No.	-
				Street	Maduravoyal
				City	Chennai
				State	Tamil Nadu
				Country	India
				Pin code	600095
3B. CATEGORY OF APPLICANT [Please tick () at the appropriate category]					
Natural Person ()		Other than Natural Person			
		Small Entity ()	Startup ()	Others (<input checked="" type="checkbox"/>)	
4. INVENTOR(S) [Please tick () at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes ()	No (<input checked="" type="checkbox"/>)		
If "No", furnish the details of the inventor(s)					
Name in Full		Nationality	Country of Residence	Address of the Inventor	
Dr. R. Kamalraj		INDIAN	INDIA	House No.	-

30-Oct-2017/67093/201741038409/Form 1

PATENT OFFICE CHENNAI 30/10/2017 15:25

1

			Street	Dy Manager, R&D - Quality
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	602105
Ms. Subhashree.G.R.	INDIAN	INDIA	House No.	
			Street	Associate Professor, Department of Physics, Dr. MGR Educational and Research Institute, Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095

5. TITLE OF THE INVENTION**Antismoking activity on Erythrine**

6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/ PA No.	NIL
	Name	NIL
	Mobile No.	NIL
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Registrar
	Postal Address	Dr.M.G.R.Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu - 600095
	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 IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)

PATENT OFFICE CHENNAI 30/10/2017 15:25

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

International application number	International filing date

10. 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

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-Oct-17

R. Kamalraj

Dr. R. Kamalraj

GR Subhash
Ms. Subhashree.G.R

(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. Palaniyandhi
Dr.M.G.R.Educational and Research Institute
REGISTRAR
Dr. M.G.R.
Educational and Research 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:- Periyar E.V.R. High Road
 Maduravoyal, Chennai - 600 095.

- ☒ I 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/provisional specification)#	No. of pages 05		
No. of Claim(s)	No. of claims and 01 No. of pages 01		
Abstract	No. of pages		
No. of Drawing(s)	No. of drawings and No. of pages		

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

30-Oct-2017/67093/201741038409/Form 1

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- (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
- (j)

Total fee in Cash/ Banker's Cheque /Bank Draft bearing No. 658453

Date on Canara Bank.

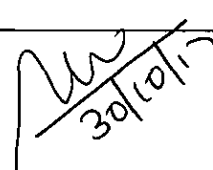
I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 30th day of Oct 20 17

✗ C.B. Palani
Dr.M.G.R.Educational and Research Institute

REGISTRAR
Dr. M.G.R.
Educational and Research Institute
To, The Controller of Patents
The Patent Office at Chennai
(Office of the Registrar,
Periyar E.V.R. High Road
Maduravoyal, Chennai - 600 095.)

D/no/67093

FORM 1				(FOR OFFICE USE ONLY)	
THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				Application No.	201741038410
				Filing date:	30/10/2017
				Amount of Fee paid:	8800/-
				CBR No:	33511
				Signature:	
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick () at the appropriate category]					
Ordinary (<input checked="" type="checkbox"/>)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
Dr.M.G.R.Educational and Research Institute		INDIAN	INDIA	House No.	-
				Street	Maduravoyal
				City	Chennai
				State	Tamil Nadu
				Country	India
				Pin code	600095
3B. CATEGORY OF APPLICANT [Please tick () at the appropriate category]					
Natural Person ()		Other than Natural Person			
		Small Entity ()	Startup ()	Others (<input checked="" type="checkbox"/>)	
4. INVENTOR(S) [Please tick () at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes ()		No (<input checked="" type="checkbox"/>)	
If "No", furnish the details of the inventor(s)					
Name in Full		Nationality	Country of Residence	Address of the Inventor	

PATENT OFFICE CHENNAI 30/10/2017 15:24

S. Valliammai	INDIAN	INDIA	House No.	
			Street	Asst. Professor, Department of Chemistry Dr.M.G.R.Educational and Research Institute, Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095

5. TITLE OF THE INVENTION

ADSORPTION OF DYES FROM INDUSTRIAL EFFLUENTS

6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/ PA No.	NIL
	Name	NIL
	Mobile No.	NIL
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Registrar
	Postal Address	Dr.M.G.R.Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu - 600095
	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 IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

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 CO-OPERATION TREATY (PCT)

International application number	International filing date

10. 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

**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

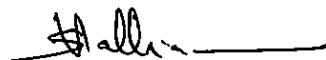
12. DECLARATIONS

(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-Oct-17



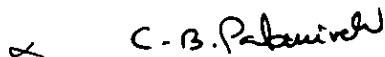
S. Valliammai

(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



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)
Periyar E.V.R. High Road
Madhavoyal, Chennai - 600 095

PATENT OFFICE CHENNAI 30/10/2017 15:24

(iii) Declaration by the applicant(s)

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.
- ☐ 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/ provisional specification)#	No. of pages 05		
No. of Claim(s)	No. of claims and 04 No. of pages 01		
Abstract	No. of pages		
No. of Drawing(s)	No. of drawings and No. of pages		

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

(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 Draft bearing No. 658453

Date.....on Canara Bank.

I/We hereby declare that 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 30th day of Oct 20 17


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

REGISTRAR

Dr. M.G.R.

Educational and Research Institute
University

To,
(Decl. u/s.3 of UGC Act, 1956)
The Controller of Patents E.V.R. High Road
The Patent Office, Chennai - 600 095.

30-Oct-2017/67093/201741038410/Form 1

PATENT OFFICE CHENNAI 30/10/2017 15:24

THE PATENTS ACT 1970 (39 of 1970) and

THE PATENTS RULES, 2003

APPLICATION FOR GRANT OF PATENT

(See section 7, 54 and 135 and sub-rule (1) of rule 20)

Application No.

201741038406

Filing date:

30/10/2017

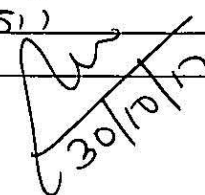
Amount of Fee paid:

8800/-

CBR No:

3351

Signature:



1. APPLICANT'S REFERENCE /
IDENTIFICATION NO. (AS ALLOTTED BY
OFFICE)

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

Ordinary (☒)

Convention ()

PCT-NP ()

Divisional ()

Patent of
Addition ()

Divisional ()

Patent of
Addition ()

Divisional ()

Patent of
Addition ()

3A. APPLICANT(S)

Name in Full	Nationality	Country of Residence	Address of the Applicant	
Dr. MGR Educational and Research Institute	INDIAN	INDIA	House No.	-
			Street	Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095

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

Natural Person (<input checked="" type="checkbox"/>)	Other than Natural Person		
	Small Entity ()	Startup ()	Others (<input checked="" type="checkbox"/>)

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

Are all the inventor(s) same
as the applicant(s) named
above?

Yes ()

No (☒)

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

Name in Full	Nationality	Country of Residence	Address of the Inventor	
Lavanya. R	INDIAN	INDIA	House No.	-
			Street	Asst. Professor, Department of Chemistry, Dr. M.G.R. Educational and Research Institute, Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India

			Pin code	600095
--	--	--	----------	--------

5. TITLE OF THE INVENTION

Bio-Base Polyurethane Composites

6. AUTHORISED REGISTERED PATENT AGENT(S)

IN/ PA No. NIL
Name NIL
Mobile No. NIL

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

Name Registrar
Postal Address Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095
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 IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

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 CO-OPERATION TREATY (PCT)

International application number	International filing date
-	-

10. 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
-	-

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

-	-
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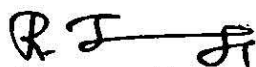
12. DECLARATIONS

(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



Lavanya R

PATENT OFFICE CHENNAI 30/10/2017 15:23

(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. Palanivel
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)
Periyar E.V.R. High Road
Maduravoyal, Chennai - 600 095.

(iii) Declaration by the applicant(s)

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.
- ☐ 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).
- ☐ I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/provisional specification)#	No pages - 05		
No. of Claim(s)	No. of claims and 01 No. of pages 01		
Abstract	No. of Pages		
No. of Drawing(s)	No. of drawings and No. of pages		

30-Oct-2017/67093/201741038406/Form 1

PATENT OFFICE CHENNAI 30/10/2017 15:23

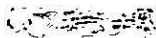
In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned 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/ Banker's Cheque /Bank Draft bearing No. 658453
Date..... on Canada 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



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

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

REGISTRAR

Dr. M.G.R.

Educational and Research Institute

University

To,
The Controller of Patents, u/s.3 of UGC Act, 1956)
The Patent Office, at Cherinai, E.V.R. High Road
Maduravoyal, Chennai - 600 095.

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,
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. Palanisami

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, Chennai 600 095
To
The Controller of Patents,
The Patent Office at Chennai



FORM 1 THE PATENTS ACT 1970 (39 OF 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
				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 [Please tick () at the appropriate category]					
Ordinary (<input checked="" type="checkbox"/>)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
Dr.MGR Educational and Research Institute University		INDIAN	INDIA	House No.	
				Street	Maduravoyal
				City	Chennai
				State	Tamil Nadu
				Country	INDIA
				Pin code	600095
3B. CATEGORY OF APPLICANT [Please tick () at the appropriate Category]					
Natural person ()		Other than Natural Person			
		Small Entity ()		Startup ()	Others (<input checked="" type="checkbox"/>)
4. INVENTOR(S) [Please tick () at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes ()		No (<input checked="" type="checkbox"/>)	
If "No", furnish the details of the inventor(s)					
Sl. No	Name in Full	Nationality	Country of Residence	Address of the Applicant	
1	SASIKALA.M	INDIAN	INDIA	Assistant Professor, Department of chemistry, Dr.MGR Educational and Research Institute University, Adayalampattu campus, Maduravoyal, Chennai 600095, Tamil Nadu	
2					
TITLE OF THE INVENTION : THERAPEUTIC USE OF 1, 10-PHENANTHROLINE DERIVATIVES					

5. AUTHORISED REGISTERED PATENT AGENT(S)		IN/PA NO.	IN/PA-1549			
		Name	SENTHIL KUMAR .B			
		Mobile No.	98410 78077			
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA		Name	SENTHIL KUMAR .B			
		Postal Address	No. 35/16 Ramanuja Nagar, Konnur High Road, Ayanavaram, Chennai 600 023			
		Telephone No.				
		Mobile No.	98410 78077			
		Fax No.	-			
		E-mail ID	sriipsearcher@gmail.com			
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION						
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 CO-OPERATION TREATY (PCT)						
International Application Number			International filing date			
-NA-			-NA-			
10. 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			
-NA-			-NA-			
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT						
Main application/patent No.			Date of filing main application			
12. DECLARATIONS						
<p>(i) Declaration by the inventor (s) (In case the applicant is an assignee: The inventors (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)</p>						
We, the above named inventor(s) are the true & first inventor(s) for this invention and declare that the						

applicant(s) herein is/are my/our assignee or legal representative.

INVENTORS

Sl. No	NAME	SIGNATURE	DATE
1	SASIKALA.M	<i>H. Sasika</i>	28/10/2017
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.
- ☐ 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	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) Total fee ₹.....in Cash/ Banker's Cheque /Bank Draft bearing No..... Date.....onBank.

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 (☑)/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||;



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



क्रमांक : 044115378
SL No :



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

पेटेंट सं. / Patent No. : 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, १९७० 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.



अनुदान की तारीख : 26/11/2019
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

Department of Electronics and Communication Engineering

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 2021 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 21st day of February 2021 and on the same day in every year thereafter.

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 THE PATENTS ACT, 1970 (39 of 1970) & The Patents Rules, 2003 APPLICATION FOR GRANT OF PATENT <i>[See section 7, 54 & 135 and rule 20(1)]</i>	(FOR OFFICE USE ONLY) Application: No. Filing Date: Amount of Fees Paid: CBR No: Signature:																								
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)																									
2. TYPE OF APPLICATION																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">Ordinary (✓)</td> <td colspan="2">Convention ()</td> <td colspan="2">PCT-NP ()</td> </tr> <tr> <td>Divisional ()</td> <td>Patent of Addition ()</td> <td>Divisional ()</td> <td>Patent of Addition ()</td> <td>Divisional ()</td> <td>Patent of Addition ()</td> </tr> </table>		Ordinary (✓)		Convention ()		PCT-NP ()		Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()												
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3B. CATEGORY OF APPLICANT																									
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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, Irumbulayur, East Tambaram, Tamil Nadu-600059, India.
Dr. B. SUMATHY	IN	IN	G3, Abinav Flats, No: 10, Thiruvalluvar Street, Hastinapuram, 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 Civil Engineering, Narsimha Reddy Engineering College, Secunderabad, Hyderabad, Telangana- 500100, India.
S.M. ABDUL MANNAN HUSAIN	IN	IN	Associate Professor, Department Of Civil Engineering, Narsimha Reddy Engineering College, Secunderabad, Hyderabad, Telangana- 500100, India.

5. TITLE OF THE INVENTION:


SYSTEM AND METHOD FOR DECOMPOSING ORGANIC AND FOOD WASTE

6. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

Country	Application No.	Filing Date	Name of Applicant	Title of Invention	IPC (as classified in the convention country)
-	-	-	-	-	-

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

International Application No.	International 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	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	
<p>(i) Declarations by Inventor(s)</p> <p>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.</p> <p>Date _____</p> <p style="text-align: center;">  Signature _____ </p> <p>Name(s) Dr. K NAGAJYOTHI</p>	
<p>(ii) Declaration by the Applicant(s) in the convention country</p> <p>We, the Applicant(s) in the convention country declare that the applicant (d) herein is/are my/our assignee or legal representative.</p> <p>Date: _____ Signature: _____</p> <p>Name(s) _____</p>	
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Original (First) Application No.	Date of filing of Original (First) Application
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Name(s)

Dr. MANGALI BALRAJU

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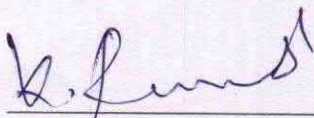
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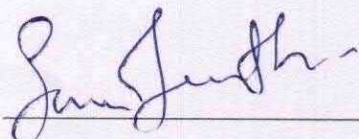
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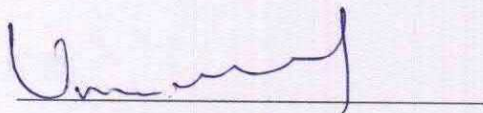
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Name(s) **Dr. A. VAMSHI KRISHNA REDDY****(ii) Declaration by the Applicant(s) in the convention country**

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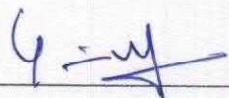
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Date 18/3/2019

Signature



Name(s)

C. GOPINATH

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Name(s) **Dr. B. SUMATHY**

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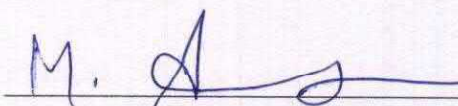
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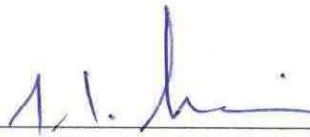
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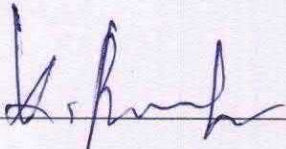
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<p>(ii) Declaration by the Applicant(s) in the convention country</p> <p>We, the Applicant(s) in the convention country declare that the applicant (d) herein is/are my/our assignee or legal representative.</p> <p>Date: _____ Signature: _____</p> <p>Name(s) _____</p>	
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10. DECLARATIONS	
<p>(i) Declarations by Inventor(s)</p> <p>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.</p> <p>Date _____</p> <p>Signature <u> <i>S S M</i> </u></p> <p>Name(s) Dr. S. SATHIYAMURTHY</p>	
<p>(ii) Declaration by the Applicant(s) in the convention country</p> <p>We, the Applicant(s) in the convention country declare that the applicant (d) herein is/are my/our assignee or legal representative.</p> <p>Date: Signature: _____</p> <p>Name(s) _____</p>	
<p>(iii) Declaration by the Applicant(s)</p> <p>I/We hereby declare(s) that</p> <ul style="list-style-type: none"> ✓ We are in possession of the above mentioned invention. ✓ Complete Specification relating to the invention is filed with this application. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> 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. 	

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	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	
<p>(i) Declarations by Inventor(s)</p> <p>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.</p> <p>Date _____</p> <p>Signature  _____</p> <p>Name(s) K.S. SREENIVASAN</p>	
<p>(ii) Declaration by the Applicant(s) in the convention country</p> <p>We, the Applicant(s) in the convention country declare that the applicant (d) herein is/are my/our assignee or legal representative.</p> <p>Date: Signature: _____</p> <p>Name(s) _____</p>	
<p>(iii) Declaration by the Applicant(s)</p> <p>I/We hereby declare(s) that</p> <ul style="list-style-type: none"> ✓ We are in possession of the above mentioned invention. ✓ Complete Specification relating to the invention is filed with this application. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> 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. 	

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	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
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10. DECLARATIONS	
<p>(i) Declarations by Inventor(s)</p> <p>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.</p> <p>Date _____</p> <p>Signature  _____</p> <p>Name(s) Dr. K. BABU</p>	
<p>(ii) Declaration by the Applicant(s) in the convention country</p> <p>We, the Applicant(s) in the convention country declare that the applicant (d) herein is/are my/our assignee or legal representative.</p> <p>Date: Signature: _____</p> <p>Name(s) _____</p>	
<p>(iii) Declaration by the Applicant(s)</p> <p>I/We hereby declare(s) that</p> <ul style="list-style-type: none"> ✓ We are in possession of the above mentioned invention. ✓ Complete Specification relating to the invention is filed with this application. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> 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. 	

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	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	
<p>(i) Declarations by Inventor(s)</p> <p>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.</p> <p>Date _____</p> <p>Signature <u>BS Reddy</u></p> <p>Name(s) BEERAM SUDHARSHAN REDDY</p>	
<p>(ii) Declaration by the Applicant(s) in the convention country</p> <p>We, the Applicant(s) in the convention country declare that the applicant (d) herein is/are my/our assignee or legal representative.</p> <p>Date: Signature: _____</p> <p>Name(s) _____</p>	
<p>(iii) Declaration by the Applicant(s)</p> <p>I/We hereby declare(s) that</p> <ul style="list-style-type: none"> ✓ We are in possession of the above mentioned invention. ✓ Complete Specification relating to the invention is filed with this application. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> 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. 	

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	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) **S.M. ABDUL MANNAN HUSAIN**

(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.

☒ 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.

☒ 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)

a. 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 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



700347307

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,
VELAN NAGAR, P.V.VAITHIYALINGAM ROAD,
PALLAVARAM,CHENNAI-600117

Hereby declare that the true and first inventor(s) of the invention disclosed in the
Provisional specifications filed in pursuance of our application
numbered _____ dated is _____

2. Inventor(s)

Name	Nationality	Address
Dr. R. SHOBARANI	Indian	ASSOCIATE PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95

PATENT OFFICE CHENNAI 24/07/2019 15:45
Department of Electronics and Communication Engineering

Key Indicator-3.4.3 Research Publications 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
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	ASSISTANT PROFESSOR COMPUTER SCIENCE ST. ANNE'S ARTS AND SCIENCE COLLEGE (AFFILIATED TO UNIVERSITY OF MADRAS) MADAVARAM, CHENNAI-110

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

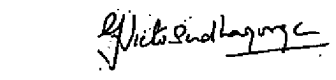
Name of Signatory:


Dr. R. SHOBARANI


DR.A.PREMA


DR.R. RENUGA DEVI


Dr. M. JANAKIRANI


Dr. G. VICTO SUDHA GEORGE


C. TAMILSELVI


Dr. T. VIMALA


Dr.T.KALAI CHELVI


R. SUREKHA


T.F.MICHEAL RAJ


B.RAJAKUMAR

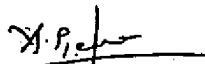
3. Declaration to be given when the application in India is filed by the applicants in the convention country:

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. DR.A.PREMA



3. DR.R. RENUGA DEVI

Signature

Name of the Signatory



700347307

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).

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VELAN NAGAR, P.V.VAITHIYALINGAM ROAD,
PALLAVARAM,CHENNAI- 600 117

DR.R. RENUGA DEVI
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SCHOOL OF COMPUTING SCIENCES,
VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES,
VELAN NAGAR, P.V.VAITHIYALINGAM ROAD,
PALLAVARAM,CHENNAI-600117

Hereby declare that the true and first inventor(s) of the invention disclosed in the
Provisional specifications filed in pursuance of our application
numbered _____ dated is _____

2. Inventor(s)

Name	Nationality	Address
Dr. R. SHOBARANI	Indian	ASSOCIATE PROFESSOR COMPUTER SCIENCE AND ENGINEERING Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI-95

PATENT OFFICE CHENNAI 24/07/2019 15:45
Department of Electronics and Communication Engineering

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

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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
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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	ASSISTANT PROFESSOR COMPUTER SCIENCE ST. ANNE'S ARTS AND SCIENCE COLLEGE (AFFILIATED TO UNIVERSITY OF MADRAS) MADAVARAM, CHENNAI-110

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

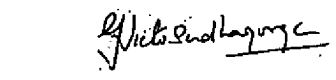
Name of Signatory:


Dr. R. SHOBARANI


DR.A.PREMA


DR.R. RENUGA DEVI


Dr. M. JANAKIRANI


Dr. G. VICTO SUDHA GEORGE


C. TAMILSELVI


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B.RAJAKUMAR

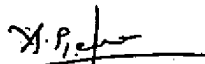
3. Declaration to be given when the application in India is filed by the applicants in the convention country:

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Dated this 22nd day of July 2019



1. DR.R.SHOBARANI



2. DR.A.PREMA



3. DR.R. RENUGA DEVI

Signature

Name of the Signatory

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,
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. Palaniswami

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, Chennai 600 095

To

The Controller of Patents,
The Patent Office at Chennai



FORM 1 THE PATENTS ACT 1970 (39 OF 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)	
			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 [Please tick () at the appropriate category]					
Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
Dr.MGR Educational and Research Institute University		INDIAN	INDIA	House No.	
				Street	Maduravoyal
				City	Chennai
				State	Tamil Nadu
				Country	INDIA
				Pin code	600095
3B. CATEGORY OF APPLICANT [Please tick () at the appropriate Category]					
Natural person ()		Other than Natural Person			
		Small Entity ()	Startup ()	Others (✓)	
4. INVENTOR(S) [Please tick () at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes ()		No (✓)	
If "No", furnish the details of the inventor(s)					
Sl. No	Name in Full	Nationality	Country of Residence	Address of the Applicant	
1	Dr. S.SUDHAKAR PhD	INDIAN	INDIA		Vice Principal, Faculty of Physiotherapy, Dr.MGR Educational and Research Institute University, Maduravoyal, Chennai 600095, Tamil Nadu

TITLE OF THE INVENTION : WIRELESS INTERFERENTIAL THERAPY UNIT					
5. AUTHORISED REGISTERED PATENT AGENT(S)			IN/PA NO.		IN/PA-1549
			Name		SENTHIL KUMAR .B
			Mobile No.		98410 78077
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA			Name		SENTHIL KUMAR .B
			Postal Address		No. 35/16 Ramanuja Nagar, Konnur High Road, Ayanavaram, Chennai 600 023
			Telephone No.		
			Mobile No.		98410 78077
			Fax No.		-
			E-mail ID		sriipsearcher@gmail.com
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION					
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 CO-OPERATION TREATY (PCT)					
International Application Number				International filing date	
-NA-				-NA-	
10. 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	
-NA-				-NA-	
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT					
Main application/patent No.				Date of filing main application	
12. DECLARATIONS					
<p>(i) Declaration by the inventor (s) (In case the applicant is an assignee: The inventors (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)</p>					

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

INVENTORS

Sl. 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.

☐ 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) Total fee ₹.....in Cash/ Banker's Cheque /Bank Draft bearing No..... Date.....onBank.

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 (☑)/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||;

FORM 1

(FOR OFFICE USE ONLY)

THE PATENTS ACT 1970 (39 of 1970) and

THE PATENTS RULES, 2003

APPLICATION FOR GRANT OF PATENT

(See section 7, 54 and 135 and sub-rule (1) of rule 20)

Application No.

201941023462

Filing date:

13-06-2019

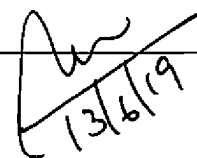
Amount of Fee paid:

8800/-

CBR No:

18926

Signature:



1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)

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

Ordinary (✓)

Convention ()

PCT-NP ()

Divisional ()

Patent of Addition ()

Divisional ()

Patent of Addition ()

Divisional ()

Patent of Addition ()

3A. APPLICANT(S)

Name in Full

Nationality

Country of Residence

Address of the Applicant

Dr. MGR Educational and Research Institute

INDIAN

INDIA

House No.

-

Street

Maduravoyal

City

Chennai

State

Tamil Nadu

Country

India

Pin code

600095

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

Natural Person ()

Other than Natural Person

Small Entity ()

Startup ()

Others (✓)

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

Are all the inventor(s) same as the applicant(s) named above?

Yes ()

No (✓)

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

Name in Full	Nationality	Country of Residence	Address of the Inventor	
V.Rajalaxmi	INDIAN	INDIA	House No.	-
			Street	Faculty of Physiotherapy, Dr. MGR Educational and Research Institute, Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095
P.Bharath Kumar	INDIAN	INDIA	House No.	-
			Street	Faculty of Physiotherapy, Dr. MGR Educational and Research Institute, Maduravoyal
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095

5. TITLE OF THE INVENTION

An Apparatus and Method of Measuring the Muscle strength

6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/ PA No.	NIL
	Name	NIL
	Mobile No.	NIL
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Registrar
	Postal Address	Dr. MGR Educational and Research Institute, Maduravoyal, Chennai 600095, Tamil Nadu, India
	Telephone No.	-
	Mobile No.	+91 9176123939
	Fax No.	--
	E-mail ID	patent@drmgrdu.ac.in

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

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 CO-OPERATION TREATY (PCT)

International application number	International filing date

10. 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

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)

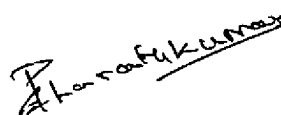
(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

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 13/6/19



V. Rajalaxmi



P. Bharath Kumar

(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 13/6/19

C. B. Palaniappan
REGISTRAR
Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
FOR Dr. MGR Educational and Research Institute
Periyar E.V.R. High Road,
Maduravoyal, Chennai 600 095

(iii) Declaration by the applicant(s)

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.
- ☐ 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/ provisional specification)#	No. of pages 14		
No. of Claim(s)	No. of claims and 9 No. of pages 3		
Abstract	No. of pages 1		
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 Draft bearing No.....

Date.....onBank.

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

C. B. Palanivel
REGISTRAR
Dr. M.G.R.
FOR Dr. MGR Educational and Research Institute
EDUCATIONAL AND RESEARCH INSTITUTE
(Deemed to be University)
Periyar E.V.R. High Road,
Madhavoyal, Chennai 600 695



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

13-Jun-2019/49466/201941023462/Form 1

PATENT OFFICE CHENNAI 14/06/2019 15:04

FORM 1				(FOR OFFICE USE ONLY)	
THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				Application No.	201741038407
				Filing date:	30/10/2017
				Amount of Fee paid:	8800/-
				CBR No:	33511
				Signature:	<i>[Signature]</i> 30/10/17
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick () at the appropriate category]					
Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
Dr.M.G.R.Educational and Research Institute		INDIAN	INDIA	House No.	
				Street	Maduravoyal
				City	Chennai
				State	Tamil Nadu
				Country	India
				Pin code	600095
3B. CATEGORY OF APPLICANT [Please tick () at the appropriate category]					
Natural Person ()	Other than Natural Person				
	Small Entity ()	Startup ()	Others (✓)		
4. INVENTOR(S) [Please tick () at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?	Yes ()	No (✓)			
If "No", furnish the details of the inventor(s)					
Name in Full	Nationality	Country of Residence	Address of the Inventor		

Dr. A. Shaw Nawaz Khan	INDIAN	INDIA	House No.	L6, Alayam Avenue
			Street	Tharapakkam Village, Thandalam
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600105

5. TITLE OF THE INVENTION

Appliance for Prevention of ECHO in Auditorium

6. AUTHORISED REGISTERED PATENT AGENT(S)	IN/ PA No.	NIL
	Name	NIL
	Mobile No.	NIL

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Registrar
	Postal Address	Dr.M.G.R.Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu - 600095
	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 IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

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 CO-OPERATION TREATY (PCT)

International application number	International filing date

10. 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

11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54,

30-Oct-2017/67093/201741038407/Form 1

PATENT OFFICE CHENNAI 30/10/2017 15:42

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



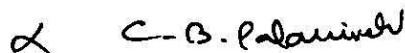
Dr. A. Shaw Nawaz Khan

(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



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

REGISTRAR

Dr. M.G.R.

Research 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:
Periyar E.V.R. High Road
Madhavoyal, Chennai - 600 095

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

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

30-Oct-2017/67093/201741038407/Form 1

PATENT OFFICE CHENNAI 30/10/2017 15:42

- ☐ 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/provisional specification)#	No. of pages 05		
No. of Claim(s)	No. of claims and 02 No. of pages 01		
Abstract	No. of pages		
No. of Drawing(s)	No. of drawings and No. of pages		

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

(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 Draft bearing No. 658453

30-Oct-2017/67093/201741038407/Form 1

PATENT OFFICE CHENNAI 30/10/2017 15:42

Date.....on Canada.....Bank.

I/We hereby declare that 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 30th day of Oct 20 17


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

REGISTRAR

Dr. M.G.R.

Educational and Research Institute

University

To,
The Controller of Patents
The Patent Office, at Chennai. (Decl. u/s.3 of PGO Act, 1956)

Periyar E.M.R. High Road
Maduravoyal, Chennai - 600 095.

30-Oct-2017/67093/201741038407/Form 1

PATENT OFFICE CHENNAI 30/10/2017 15:42

EP88/2
1/11/17

D/67753



700174906

FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)				(FOR OFFICE USE ONLY)			
				Application No.		201741038866	
				Filing date:		01/11/2017	
				Amount of Fee paid:		8,800	
				CBR No:		23806	
				Signature:			
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)							
2. TYPE OF APPLICATION [Please tick () at the appropriate category]							
Ordinary (<input checked="" type="checkbox"/>)		Convention ()		PCT-NP ()			
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()		
3A. APPLICANT(S)							
Name in Full		Nationality	Country of Residence	Address of the Applicant			
Dr. M.G.R. Educational & Research Institute		INDIAN	INDIA	House No.		-	
				Street		Maduravoyal	
				City		Chennai	
				State		Tamil Nadu	
				Country		India	
				Pin code		600095	
3B. CATEGORY OF APPLICANT [Please tick () at the appropriate category]							
Natural Person ()		Other than Natural Person					
		Small Entity ()		Startup ()		Others (<input checked="" type="checkbox"/>)	
4. INVENTOR(S) [Please tick () at the appropriate category]							
Are all the inventor(s) same as the applicant(s) named above?		Yes ()		No (<input checked="" type="checkbox"/>)			
If "No", furnish the details of the inventor(s)							
Name in Full		Nationality	Country of Residence	Address of the Inventor			
Dr.A.Shaw Nawaz Khan		INDIAN	INDIA	House No.		L6, Aalayam Avenue	

01-Nov-2017/67753/201741038866/Form 1

PATENT OFFICE CHENNAI 02/11/2017 11:44

			Street	Tharapakkam Village, Thandalam
			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

7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

Name	Registrar
Postal Address	Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai, Tamil Nadu 600095
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 IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

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 CO-OPERATION TREATY (PCT)

International application number	International filing date

10. 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

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

01-Nov-2017/67753/201741038866/Form 1

PATENT OFFICE CHENNAI 02/11/2017 11:44

(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 01-Nov-17



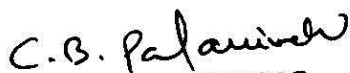
Dr. A. Shaw Nawaz Khan

(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 01-11-17



REGISTRAR

Dr. M.G.R.

Educational and Research Institute

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

(Decl. u/s.3 of UGC Act, 1956)
Periyar E.V.R. High Road
Madhavayal, Chennai - 600 095.

(iii) Declaration by the applicant(s)

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.

- ☐ 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).
- ☐ I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- ☐ My/our application in India is based on international 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.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/provisional specification)#	No. of pages 05		
No. of Claim(s)	No. of claims and 01 No. of pages 01		
Abstract	No. of pages		
No. of Drawing(s)	No. of drawings and No. of pages		

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

- (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/ Banker's Cheque /Bank Draft bearing No. 401918
 Date 1/11/17 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 01st day of Nov 20 17

C. B. Palanivelu

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

(Decl. u/s. 3 of UGC Act, 1956)
 Periyar E.V.R. High Road

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

Service:- Mission Legal Advocates, No.12, Canal Bank Road, Gandhi Nagar, Adyar, Chennai, 600020, Tamil Nadu, India
 Email:- missionlegal@gmail.com

आवेदन संख्या 201941036782 के संबंध में अधिनियम की धारा 43 के तहत पेटेंट अनुदान तथा पेटेंट रजिस्टर में प्रविष्टि की सूचना
 Grant and recordal of patent under section 43 of the Act in respect of patent application no. 201941036782

सूचित किया जाता है कि पेटेंट अधिनियम, 1970 की धारा 12 व 13 तथा उस आधार पर बने नियम के तहत उपर्युक्त पेटेंट आवेदन के परीक्षण [व --
 त एतद्वारा पेटेंट अनुदान किया जाता है। तथा पेटेंट अनुदान की प्रविष्टि 03/08/2021 को पेटेंट रजिस्टर में कर दी गयी है।
 To Inform you that following the examination of above mentioned patent application under section 12 and 13 of The Patents Act, 1970, a patent is hereby granted and recorded in the Register of Patents. The Patent Certificate is enclosed herewith.

Patent No	: 373717
Name Of Applicant	: DR MGR EDUCATIONAL & RESEARCH INSTITUTE UNIVERSITY
Date of Patent	: 12/09/2019
Priority Date	: 12/09/2019
पेटेंट दाखिल करने की तिथि \ Filing	: 12/09/2019
पेटेंट के परीक्षण के लिए	: INTEGRATED DESALINATED WATER AND SEA-SALT PRODUCTION SYSTEM ATOMIZATION-EVAPORATION-CONDENSATION (AEC) PROCESS
Number of claims	: 1-10

अनुदान का प्रकाशन अधिनियम की धारा 43 के तहत पेटेंट कार्यालय के आधिकारिक जर्नल में किया जाएगा।
 The 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-धारा (4) के तहत उपरोक्त प्रविष्टि की तिथि से 3 माह के भीतर इस कार्यालय में नवीकरण शुल्क जमा किया जाना चाहिए।
 The payment of renewal fee is required to be made at this office within three(3) months from the aforesaid date of recording according to sub-section(4) of Section 142 of The Patents Act, 1970, as amended by The Patents (Amendment) Act, 2005 / The Patents (Amendment) Rules, 2016.



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GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

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

क्रमांक : 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, १९७० के उपबंधों के अनुसार आज तारीख 12th day of September 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 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.



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 में उसी दिन देय होगी।

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

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

Name in Full	Nationality	Country of Residence	Address of the inventor	
Dr. V. Natarajan	India	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 INVENTION

INTEGRATED DESALINATED WATER AND SEA-SALT PRODUCTION SYSTEM USING ATOMIZATION-EVAPORATION-CONDENSATION (AEC) PROCESS

6. AUTHORISED REGISTERED PATENT AGENT	IN/PA No.	IN/PA 3249
	Name	Saravanan Gopalan
	Mobile no.	9941014565
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA	Name	Mission Legal Advocates
	Postal address	No.12, Canal Bank Road, Gandhi Nagar, Adyar Chennai, 600020 Tamil Nadu, India
	Telephone No.	(044) 42046040
	Mobile No.	9941014565
	Fax No	
	E-mail ID	info@missionlegal.com

8. IN CASE OF APPLICATION CLAIMING PRIORITY OF THE APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION

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)

International application number	International filing date
Not Applicable	Not Applicable

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

Original (first) application 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: 2019

(b) Signature of the inventor: _____

(c) Name: **Dr V. Natarajan**

(a) Date: 2019

(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 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		

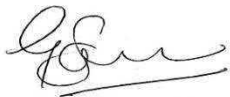
No. of Drawing(s)	No. of Drawing(s) & No. of pages – 2 & 2		
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(b) Drawings

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.