

### Register of Patents

#### Innovation Patent

Patent no: 2020102967

Patentee(s):

M, PRABHAHAR DR of Professor Department of Mechanical Engineering Aarupadai Veedu Institute of Technology Vinayaka Missions Research Foundation (Deemed to be University), Paiyanoor, Chennai Tamil Nadu India M, GANESAN DR of Professor and Head Department of

Mechanical Engineering, Dr. M.G.R. Educational and Resea Institute

Maduravoyal, Chennai-600095, Tamil Nadu India

HARI, RAJESWARY DR of Professor and Head Department of Mechanical Engineering, Dr. M.G.R. Educational and Research Institute Maduravoyal, Chennai - 600 095, Tamil Nadu India N, KANYA DR of Professor and Head Department of

Information Technology Dr. M.G.R. Educational and Research Institute, Maduravoyal, Tamilnadu Chennai - 600 095 India S, GEETHA DR of Professor and Head Department of Computer

Science and Engg. Dr.M.G.R. Educational and Research Institute,

Tamilnadu Maduravoyal, Chennai - 600 095 India

A, BALASUBRAMANIAN MR of Assistant Professor Department of Automobile Engineering Sri Venkateswara College of Engineering

Pennalur, Sriperumbudur-602 117 Tamilnadu India

S, SENDILVELAN DR of Dean (Engineering and Technology) Dr.M.G.R. Educational and Research Institute Maduravoyal, Chennai Tamil Nadu 600 095 India

K, BHASKAR DR of Professor and Head Department of Automobile Engineering Rajalakshmi Engineering College Rajalakshmi Nagar,

Thandalam, Chennai, Tamil Nadu 602 105 India

P, PRABHU DR of Professor Department of Mechanical Engineering Sriram Engineering College Perumalpattu -602024, Tamil Nadu India D., JAYABALAKRISHNAN DR of Associate professor and Head Department of Mechanical Engineering Sriram Engineering College Perumalpattu Tamil Nadu 602024 India

G, RAMESH DR of Professor Department of Mechanical Engineering

MEA Engineering College Malapuram-679325, Kerala India K, GOMATHI DR of Professor Department of Biotechnology Dr.M.G.R. Educational and Research Institute Maduravoyal,

Chennai-600095, Tamil Nadu India

**Inventor(s):** D., JAYABALAKRISHNAN

> P., PRABHU K., BHASKAR S., SENDILVELAN G., RAMESH

A., BALASUBRAMANIAN

S., GEETHA N., KANYA

HARI, RAJESWARY

Department of Mechanical Engineering

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

Title: A PARALLEL – SERIES ELECTRIC HYBRID VEHICLES BASED

ON GEOMETRY FORMULATION

**Term:** Eight years from 22 October 2020

**Date Granted:** 9 December 2020

**Date Certified:** 

Date of Patent: 22 October 2020
Status: GRANTED

**Expiry Date:** 22 October 2028

Date Ceased:
Date Revoked:

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



**Patent number: 2020102967** 

The Commissioner of Patents has granted the above patent on 9 December 2020, and certifies that the below particulars have been registered in the Register of Patents.

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

JAYABALAKRISHNAN D. of Associate professor and Head, Department of Mechanical Engineering, Sriram Engineering College Perumalpattu Tamil Nadu 602024 India

PRABHU P of Professor, Department of Mechanical Engineering, Sriram Engineering College Perumalpattu - 602024, Tamil Nadu India

BHASKAR K of Professor and Head, Department of Automobile Engineering, Rajalakshmi Engineering College Rajalakshmi Nagar, Thandalam, Chennai, Tamil Nadu 602 105 India

SENDILVELAN S of Dean (Engineering and Technology), Dr.M.G.R. Educational and Research, Institute Maduravoyal, Chennai Tamil Nadu 600 095 India

RAMESH G of Professor, Department of Mechanical Engineering, MEA Engineering College Malapuram-679325, Kerala India

BALASUBRAMANIAN A of Assistant Professor, Department of Automobile Engineering, Sri Venkateswara College of Engineering Pennalur, Sriperumbudur-602 117 Tamilnadu India

GEETHA S of Professor and Head, Department of Computer Science and Engg., Dr.M.G.R. Educational and Research Institute, Tamilnadu Maduravoyal, Chennai - 600 095 India

KANYA N of Professor and Head, Department of Information Technology, Dr. M.G.R. Educational and Research Institute, Maduravoyal, Tamilnadu Chennai - 600 095 India

RAJESWARY HARI of Professor and Head, Department of Mechanical Engineering,, Dr. M.G.R. Educational and Research Institute Maduravoyal, Chennai - 600 095, Tamil Nadu India

GANESAN M of Professor and Head, Department of Mechanical Engineering,, Dr. M.G.R. Educational and Resea Institute Maduravoyal, Chennai-600095, Tamil Nadu India

PRABHAHAR M of Professor, Department of Mechanical Engineering, Aarupadai Veedu Institute of Technology Vinayaka Missions Research Foundation (Deemed to be University), Paiyanoor, Chennai Tamil Nadu India

GOMATHI K of Professor, Department of Biotechnology, Dr.M.G.R. Educational and Research Institute Maduravoyal, Chennai-600095, Tamil Nadu India

#### Title of invention:

A PARALLEL - SERIES ELECTRIC HYBRID VEHICLES BASED ON GEOMETRY FORMULATION

#### Name of inventor(s):

D., JAYABALAKRISHNAN; P., PRABHU; K., BHASKAR; S., SENDILVELAN; G., RAMESH; A., BALASUBRAMANIAN; S., GEETHA; N., KANYA; HARI, RAJESWARY; M., GANESAN; M., PRABHAHAR and K., GOMATHI

Dated this 9<sup>th</sup> day of December 2020

Commissioner of Patents

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Department of Information Technology

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



**Patent number: 2020102967** 

Term of Patent:

Eight years from 22 October 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 9th day of December 2020

Commissioner of Patents

Department of Information Technology

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



**Patent number: 2020103161** 

The Commissioner of Patents has granted the above patent on 16 December 2020, and certifies that the below particulars have been registered in the Register of Patents.

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

HARIBABU K of Department of Mechanical Engineering, SCAD College of Engineering and Technology Cheranmahadevi, Tirunelveli-627414 Tamil Nadu India

SHEEBA PERCIS E of Department of Electrical and Electronics, Engineering, Dr. M.G.R. Educational and Research Institute, Poonamallee High Road Maduravoyal, Chennai - 600 095. Tamil Nadu India

NALINI A of Department of Electrical and Electronics, Engineering, Dr. M.G.R. Educational and Research Institute, Poonamallee High Road Maduravoyal, Chennai. Tamilnadu 600 095 India

JENISH T of Department of Electrical and Electronics, Engineering, Dr. M.G.R. Educational and Research Institute, Poonamallee High Road Maduravoyal, Chennai. Tamilnadu 600 095 India

JAYARAJAN J of Department of Electrical and Electronics, Engineering, Dr. M.G.R. Educational and Research Institute, Poonamallee High Road Maduravoyal, Chennai. Tamilnadu 600 095 India

BHUVANESWARI S of Department of Electrical and Electronics, Engineering, Dr. M.G.R. Educational and Research Institute, Poonamallee High Road Maduravoyal, Chennai. Tamilnadu 600 095 India

GANESAN V.G of Department of Aeronautical Engineering, VelTech RR Dr SR R &D Institute of Science and Technology 400 feet Outer Ring Road, Avadi, Chennai-600052 Tamilnadu India

UVARAJA V.C. of Department of Mechanical Engineering, Bannariamman Institute of Technology Alathukombai Post, Sathyamangalam, Erode-638401 Tamil Nadu India

ARUMUGAM K. of Department of Mechanical Engineering, University College of Engineering Ramanathapuram, ECR - Pullangudi, Ramanathapuram - 623 513 Tamilnadu India

BALAJI V of No:9, Second main road, Lakshmipuram Extension West Tambaram, Chennai. Tamilnadu 600045 India

M.D. RAJKAMAL of Department of Mechanical Engineering,, Velammal Institute of Technology,, Velammal Knowledge Park, Chennai - Kolkata Highway, Chennai - 601204. Tamilnadu, India

KALIAPPAN S of S/O P.Seeniappan, No.8, F3, SAI KRISHH Apartment, 2nd Main, Road, 2nd Layout, Teachers Colony Lakshmipuram, Kolathur, Chennai-600 099 Tamil Nadu India

#### Title of invention:

AN NOVEL METHOD FOR A SMART CAR - ARTIFICIAL INTELLIGENCE BASED AUTONOMOUS STEERING CONTROL SYSTEM WITH VOICE ASSISTANCE

#### Name of inventor(s):

K, HARIBABU; E, SHEEBA PERCIS; A, NALINI; T, JENISH; J, JAYARAJAN; S, BHUVANESWARI; V.G, GANESAN; V.C., UVARAJA; K., ARUMUGAM; V, BALAJI; S, .KALIAPPAN and S, KALIAPPAN

Dated this 16th day of December 2020

Commissioner of Patents

Department of Electrical and Electronics Engineering

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



Patent number: 2020103161

**Term of Patent:** 

Eight years from 1 November 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 16th day of December 2020

Commissioner of Patents

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





	Application Details
APPLICATION NUMBER	202041030263
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/07/2020
APPLICANT NAME	<ol> <li>Dr.Ch.Sreedhar</li> <li>Mr.S.Govindarajan</li> <li>Mr.Raushan Kumar Singh</li> <li>Dr.V.Sivabharathi</li> <li>Dr.K.R.Vijayakumar</li> <li>Dr.J.Jayaseelan</li> <li>Ms.Chandla Ellis</li> <li>Dr.Ram Subbiah</li> <li>Dr.N.Sateesh</li> <li>Dr.J.Saranya</li> <li>Mr.H.Manikandan</li> <li>Mr.N.Nagarajan</li> <li>Dr.M.Ramarao</li> <li>Dr.R.Delshi Howsalaya Devi</li> </ol>
TITLE OF INVENTION	IOT BASED INTELLIGENT SOLAR WATER HEATER
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	nagu.sajana@gmail.com
ADDITIONAL-EMAIL (As Per Record)	nagu.sajana@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	07/08/2020

### Application Status

Department of Mechanical Engineering

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Key Indicator 3.4.3 Research Publication and Indicator 3.4.3 Research Publicator 3.4.3 Research 3.4.3 Research 3.4.3 Research 3.4.3 Research 3.4.3 Research 3.4.3 Research 3.4.3 Researc



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





	Application Details
APPLICATION NUMBER	202041035348
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/08/2020
APPLICANT NAME	1 . Dr. S. JAYAKRISHNA 2 . Dr.M.RAMARAO 3 . Mr.B.HARISH RAJ 4 . Mr.VENKATAKOTI REDDY GOPI REDDY 5 . T.SANKARAMOORTHY 6 . Dr. T. SENTHIL VADIVEL 7 . Dr. V.THANIGAIVELAN 8 . Dr.K.R VIJAYAKUMAR 9 . Dr.V.SIVABHARATHI 10 . Dr.NARASIMHAN 11 . Dr.R.SURESH 12 . Dr.ANBAZHAGAN 13 . S.PRANAVAN
TITLE OF INVENTION	A SYSTEM AND METHOD OF GRAVITATIONAL TRANSPORTATION BETWEEN HILLS / BUILDINGS THROUGH TELESCOPIC HYDRAULIC SYSTEM
FIELD OF INVENTION	MECHANICAL ENGINEERING
E-MAIL (As Per Record)	patent@inanseip.com
ADDITIONAL-EMAIL (As Per Record)	patent@inanseip.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	04/09/2020

Department of Mechanical Engineering

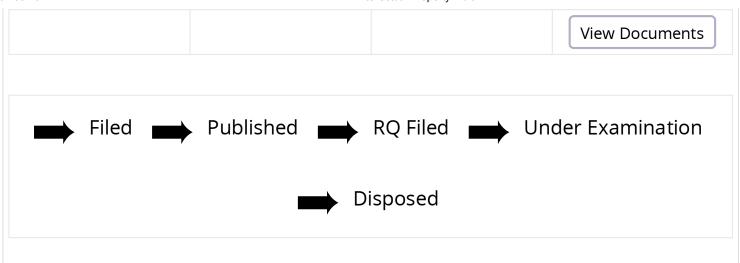
Application Status

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

APPLICATION STATUS

**Awaiting Request for Examination** 



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



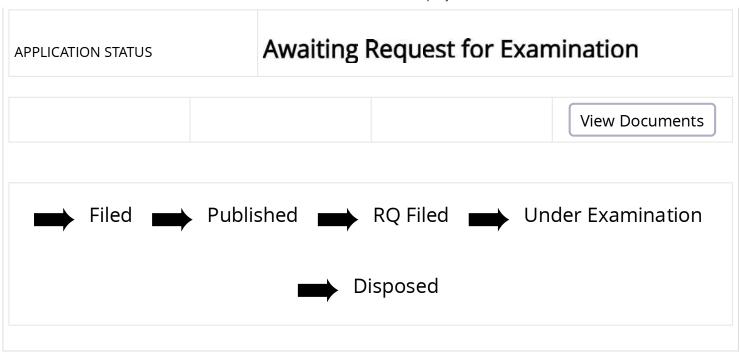


	Application Details
APPLICATION NUMBER	202041033007
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/07/2020
APPLICANT NAME	<ol> <li>Dr. R.Narasimhan</li> <li>Dr. K. R. VIJAYA KUMAR, Dr. M.G.R Educational and Research Institute</li> <li>Dr.K.ARUMUGAM</li> <li>Dr. Sushil Kumar Upadhyay</li> <li>Dr. Raj Singh</li> <li>Dr Dheer Pal Singh</li> <li>Dr. Kavita Rani</li> <li>Arti Sharma</li> <li>Manish Bharadwaj</li> <li>Saurabh</li> <li>PALARAPU ANIL KUMAR</li> <li>Dr.Ram Subbiah</li> <li>Mohit Goyal</li> <li>Naresh Sharma</li> <li>Chhaya Sharma</li> </ol>
TITLE OF INVENTION	WEARABLE CHILD MONITORING DEVICE WITH INBUILT HEART RATE MEASUREMENT TO PROTECT FALLING INTO ABANDONED DEEP BORE WELL
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	narasima123@gmail.com
ADDITIONAL-EMAIL (As Per Record)	narasima123@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	21/08/2020

Department of Mechanical Engineering

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



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





	Application Details
APPLICATION NUMBER	202041044939
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/10/2020
APPLICANT NAME	1 . Ms.R. LAVANYA 2 . Dr.V.THANIGAIVELAN 3 . Dr.T.SENTHIL VADIVEL 4 . Dr. H. SUDHEER 5 . Dr.R.NARASIMHAN 6 . Mrs.V.VIJAYALAKSHMI 7 . Ms.DEEPIKA SHERAWAT 8 . Ms.SONIA 9 . Ms.PRIYANKA SHUKLA 10 . Dr.K.R.VIJAYA KUMAR
TITLE OF INVENTION	IOT BASED PREDICTIVE MODEL FOR ATTENTION DEFICIT HYPERACTIVITY DISORDER
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patent.trademark1@gmail.com
ADDITIONAL-EMAIL (As Per Record)	lavanya27382@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	30/10/2020

	Application Status
APPLICATION STATUS	Awaiting Request for Examination

Department of Mechanical Engineering

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

View Documents



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





	Application Details
APPLICATION NUMBER	202041002231
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/01/2020
APPLICANT NAME	1 . Dr.K.RAJAN 2 . Dr.S SENTHIL KUMAR 3 . Dr.C BIBIN 4 . Dr.T G SAKTHIVEL 5 . Mr. J LEO AMALRAJ 6 . Dr.V MOHANAVEL
TITLE OF INVENTION	AN AUTOMATED METHOD AND SYSTEM FOR GRAVITATIONAL TRANSPORTATION OF MINERALS ALONG WITH SEGREGATION
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	sgowthami12@gmail.com
ADDITIONAL-EMAIL (As Per Record)	sgowthami12@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	24/01/2020

	Applicati	ion Status	
APPLICATION STATUS	Awaiting	Request for Examination	
		View Documents	

Department of Mechanical Engineering 43 Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded



Department of Mechanical Engineering 44 Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded

### FORM 1

## THE PATENTS ACT1970(39 of1970)and THE PATENTS RULES, 2003

### APPLICATION FOR GRANT OF PATENT

(See section7, 54 and 135and sub-rule (1) of rule 20)

(FOR OFFICE	E USE ONLY)
Application No.	
Filing date:	
Amount of Fee paid:	
CBR No:	
Signature:	

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

### 2.TYPEOFAPPLICATION [Please tick(√)atthe appropriate category]

Ordinary(✓)		Convention()		PCT-NP( )		
Divisional	Patent of Addition ( )	Divisional ( )	Patent of Addition( )	Divisional	()	Patent of Addition ( )
3A. APPLIC	ANT(S)	1		'		
Name in	Full	Nationality	Country of Residence	Address o	Address of the Applicant `	
				House No.	No. Professor, 52-Sree Angammal Avenue Kalyanasundaram Street Hope College, Peelamedu(PC Coimbatore – 641 004 Tamil Nadu, India	
Dr.S	.Sudhakar	Indian	India	Street	Kaly	vanasundaram Street
12				City	Coir	mbatore
			State	Tam	ilnadu	
			Country	India	a	
			Pin code	641	004	
		India	House No.	School SAS	ociate Professor ool of Computing TRA Deemed University njavur - 613401 iil Nadu, India	
Dr.V.Subramaniyaswamy	Indian	-	Street	Thir	umalaisamudram	
				City		njavur
				State	# PD5.HT8967017	ilnadu
				Country	India	
				Pin code	6134	401

Dr.T.Jayasankar		India	House No.	Assistant Professor Dept. of ECE University College of Engineering, BIT Campus Anna University, Tiruchirappalli-24 Tamil Nadu, India
	Indian		Street	University College of Engineering, BIT Campus Anna University
			City	Tiruchirappalli
			State	Tamilnadu
			Country	India
			Pin code	620024
			House No.	Director-Research &
Dr.S.Balamurugan	3	India	Trouse No.	Development, Intelligent Research Consultancy Services, No.21, Kalloori Nagar, Peelamedu, Coimbatore-641004, Tamilnadu, India
	Indian		Street	Kalloori Nagar
			City	Coimbatore
			State	Tamilnadu
			Country	India
			Pin code	641004
Dr.Viji Vinod	Indian	India	House No.	Professor & HoD Dept. of Computer Applications, Dr.M.G.R Educational and Research Institute, E.V.R Periyar Salai (NH4 Highway), Maduravoya, Chennai - 600095. Tamil Nadu, India.
			Street	E.V.R Periyar Salai (NH4 Highway)
			City	Chennai
			State	Tamilnadu
			Country	India
			Pin code	600095
Dr.Shruthi Anand	Indian	India	House No.	4827/A, K.R.M Road, (Near Rajendranagar Circle Arch) N.R. Mohalla Mysore 570007 Karnataka, India
			Street	K.R.M Road

.

	f.	ľ	City	Mysore
		3	State	Karnataka
			Country	India
			Pin code	570007
D. M.D.: L.D.L.		India	House No.	Professor, Dept. of CSE, RVS College of Engineering and Technology, Coimbatore- 641402, Tamil Nadu, India
Dr. M.Rajesh Babu		India	Street	Sulur
	Indian			
	3032530000		City	Coimbatore
			State	Tamilnadu
			Country	India
			Pin code	641402
Dr.N.B.Prakash	Indian	India	House No.	Associate Professor Department of EEE National Engineering College Kovilpatti 628503 Tamil Nadu, India
	1855 1750 1750 1550 1		Street	National Engineering College
			City	Kovilpatti
			State	Tamilnadu
			Country	India
			Pin code	628503
Dr.G.R.Hemalakshmi		India	House No.	Assistant Professor (Sr.Grade) Department of CSE National Engineering College Kovilpatti 628503 Tamil Nadu, India.
	Indian		Street	National Engineering College
	Tarres AND OUT IN		City	Kovilpatti
			State	Tamilnadu
			Country	India
141			Pin code	628503
		India	House No.	Associate Professor, Dept. of ECE KPR Institute of Engineering and Technology, Arasur, Coimbatore-641407. Tamil Nadu, India
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Dr.B.Jaishankar	Indian		Street	and Technology
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Dr.B.Jaishankar	Indian		City	and Technology Coimbatore
Dr.B.Jaishankar	Indian			and Technology

Ms.R.P.Shermy  3B.CATEGORY OF APPLICANT [Ple Natural Person (✓)  4.INVENTOR(S)[Please tick(✓)attl  Arealltheinventor(s)same As the applicant(s) named above?  If"No", furnish the details of the in Name in Full  Name in Full	Other than N Small Entity( he appropriat Yes(√)	latural P	erson St Dry]	artup ( ) No()	ā	re du
Natural Person (✓)  4.INVENTOR(S)[Please tick(✓)attlease tick	Other than N Small Entity( he appropriat Yes(√)	latural P ) e catego	erson St Dry]	City State Country Pin code category]  artup ()	Coimbato Tamil Nac India 641016	re du
Natural Person (✓)  4.INVENTOR(S)[Please tick(✓)attle  Arealltheinventor(s)same  As the applicant(s) named above?  If"No", furnish the details of the interpretation of the int	Other than N Small Entity( he appropriat Yes(√)	latural P ) e catego	erson St Dry]	State Country Pin code category]  artup ( )  No()	Tamil Nac India 641016	du
Natural Person (✓)  4.INVENTOR(S)[Please tick(✓)attle  Arealltheinventor(s)same  As the applicant(s) named above?  If"No", furnish the details of the interpretation of the int	Other than N Small Entity( he appropriat Yes(√)	latural P ) e catego	erson St Dry]	Country Pin code category]  artup ( )  No()	India 641016 Othe	
Natural Person (✓)  4.INVENTOR(S)[Please tick(✓)attle  Arealltheinventor(s)same  As the applicant(s) named above?  If"No", furnish the details of the interpretation of the int	Other than N Small Entity( he appropriat Yes(√)	latural P ) e catego	erson St Dry]	Pin code category]  Eartup ( )  No()	641016 Othe	rs()
Natural Person (✓)  4.INVENTOR(S)[Please tick(✓)attle  Arealltheinventor(s)same  As the applicant(s) named above?  If"No", furnish the details of the interpretation of the int	Other than N Small Entity( he appropriat Yes(√)	latural P ) e catego	erson St Dry]	category] cartup ( ) No()	Othe	ers()
4.INVENTOR(S)[Please tick(√)atti  Arealltheinventor(s)same  As the applicant(s) named above?  If"No", furnish the details of the interest of	Small Entity( he appropriat  Yes(✓)  nventor(s)	e catego	St pry]	No()		ers()
Arealltheinventor(s)same As the applicant(s) named above?  If "No", furnish the details of the in	he appropriat  Yes(√)  nventor(s)	Count	ory]	No()		rs()
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As the applicant(s) named above?  If "No", furnish the details of the in	nventor(s)	0.00	r <del>y of</del>		ā	*
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If"No", furnish the details of the i		0.00	r <del>y of</del>		61	
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Name in Full Na	tionality	0.00	r <del>y of</del>			
		0.00	15	Addres	ss of the Ir	nventor
		//CS/G	nce			
				House	No.	
3					STATEMENTS.	
			-	Street		
		1		City		
				State		
			1	Counti	r <del>y</del>	
			1	Pin cod	de	
TITLE OFTHE INVENTION					-	
IoT Based Perso	nalized Heal	thcare S	ystem A	and Method	d Thereof	•
6.AUTHORISED REGISTEREDPATE	NT		IN/PA No	0.		NA
AGENT(S)			Name			NA
		-	Mobile I	No.		NA
7.ADDRESS FOR SERVICE OF APPL	ICANT IN IND	IA	Name		Dr.S	.Sudhakar
			Postal		essor,	1 A
			Address		ree Angam anasundara	mal Avenue
						Peelamedu(PO)
**					batore – 64	
				Tami	l Nadu, Inc	lia

				Mobile No.	
				Fax No.	NA
				E-mail ID	sudhasengan@gmail.com
8.INCA	SEOFAPPLICAT	IONCLAIMING	PRIORITYOFAPP	ICATIONFILEDI	NCONVENTIONCOUNTRY,
PARTIC	ULARS OF CON	VENTION APP	LICATION		
Country	Application	Filing date	Name of the	Title of	IPC (as classifiedin the
	Number		Applicant	the	conventioncountry)
O INICA	SECEDATION	NAI DUASEADI	DI ICATION DADT	CI II A DSOEINITE	RNATIONALAPPLICATION
			N TREATY (PCT)	COLINOUNITE	ANATIONAL PERMITON
Intern	ational applicat	tion number	1	nternational filin	<del>g date</del>
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01	APPLICATION				
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(FIRST).		<del>ition No.</del>	£	ate of filing ofor	riginal (first) application
(FIRST), Origin	al (first) applica	VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV			
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(FIRST), Origin  11.INC/ OR PAT  Main a  12.DE (i)Dec (Incas uploadth post/elec We,th applicant a) Date b) Signatu c) Name(s b) Signatu c) Name(s	ASEOFPATENTO ENT Explication/pat ECLARATIONS Clarationby the setheapplicant eassignmentor tronic transmis neabovenamed (s)herein is/are	inventor(s) isanassignee:tlenclosetheassi ssion duly auth inventor(s)is/a my/our assign	heinventor(s)margnmentwiththisaenticatedwithin rethetrue&firstimee or legal representations.	rsignhereinbeloventor(s) forthis sentative.	ARSOFMAINAPPLICATION  rain application  vortheapplicantmay rentorsendtheassignmentby eriod).  Inventionanddeclare that the Dr.S.Balamurugan

#### (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 applicantintheconventioncountrymaysignherein beloworapplicantinIndiamayupload the assignmentfromtheapplicantin theconventioncountryorenclosethesaid assignment with this applicationforpatent orsend theassignment by post/electronictransmission dulyauthenticated within the prescribed period)

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

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

#### (iii)Declarationby the applicant(s)

We the applicant(s)herebydeclare(s) that: -

Wearein possession of the above-mentioned invention.

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

Theinvention as disclosed in thespecificationuses the biological material from India and the necessary permission from the competent authority shall be submitted by us before the grant of patent tous.

There is no lawful ground of objection(s) to the grant of the Patent tous.

Weare the true &first inventor(s).

Weare 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 in respect of our invention(s). We claim the priority from the above mentioned application(s) filed in convention

country and state that no application for protection in respect of the invention

hadbeenmadeinaconventioncountrybeforethatdatebyusorbyanypersonfrom which We derive the title.

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Abstract	No. of pages: 1					
No. of Drawing(s)	No. of drawings:3 No. of pages: 3			Đ.		
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(h)DeclarationofInventorshipon F	orm 5		
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Dated thisdayo	f2019	********	
1.Signature :-	2.Signature :-	3.Signature:-	
Name: Dr.S.Sudhakar	Name :Dr. V. Subramaniy	yaswamy Name : Dr.T.Jayasankar	
To the same of the	25		
4. Signature :-	5.Signature :-	6.Signature:	
Name: Dr.S.Balamurugan	Name :Dr.Viji Vinod	Name: Dr.Shruthi Anand	
7.Signature :-	8.Signature :-	9. Signature :-	
M Rajed em	NRIV	GR. Heman	
Name: Dr. M. Rajesh BabuNam		.O.K. Heilialaksiilli	
10.Signature :-	11.Signature :-		
Name: Dr.B.JaishankarName : N	As.R.P.Shermy		
To,			
E 2007			
The Controller of Patents			
The Patent Office, at Chennai.			





Application Details		
APPLICATION NUMBER	201941023455	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	13/06/2019	
APPLICANT NAME	DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE	
TITLE OF INVENTION	SMART AIR PURIFIER	
FIELD OF INVENTION	COMPUTER SCIENCE	
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)	18/12/2020	

Application Status		
APPLICATION STATUS	Awaiting Request for Examination	
	View Documents	

Filed Published RQ Filed Under Examination

Department of Electronics and Communication Enginesed

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



## CERTIFICATE OF GRANT

## INNOVATION PATENT

Patent number: 2020102046

The Commissioner of Patents has granted the above patent on 7 October 2020, and certifies that the below particulars have been registered in the Register of Patents.

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

KALIAPPAN S of Associate Professor, Velammal Institute of Technology, Department of Mechanical Engineering Chennai-Kolkotta Highway, Chennai Tamilnadu 601204 India

BALAJI V of Professor, Department of Mechanical Engineering, Loyola Institute of Technology Palanchur, Chennai Tamilnadu 600123. India

MOTHILAL T of Professor, Department of Automobile Engineering, KCG College of Technology KCG Nagar, Karappakkam, chennal Tamilnadu 600097, India

SELVAKANMANI S of Associate Professor, Department of Computer Science and Engg., Velammal Institute of Technology Chennai-Kolkotta Highway, Chennai Tamilnadu 601204 India

Arun S of Professor, Dept of ECE, Prathyusha Engineering College Thiruvallur Tamilnadu India

GODHAVARI T of Professor and Head, Dept of ECE, Dr.M.G.R Educational and Research, Institute Periyar E.V.R. High Road Tamilnadu 600 095. India

Jayalatsumi U of Associate Professor, Dept of ECE, Dr.M.G.R Educational and Research, Institute Periyar E.V.R. High Road Tamilnadu 600 095 India

MURUGAN P of Assistant Professor, Faculty of Mechanical Engineering, Jimma Institute of Technology Jimma University Jimma Ethiopia

VASUKIDEVI G of Assistant Professor, Department of Science and Humanities, (General Engineering) R.M.K. College of Engineering and Technology, RSM Nagar, Puduvoyal 601 206 India

TAMILARASI K of Assistant Professor (Senior Grade), Department of Information Technology, Rajalakshmi Engineering College Rajalakshmi Nagar Thandalam, Chennai 602 105 India

#### Title of invention:

DESIGN OF A COLLAPSIBLE AND PORTABLE LACTATION MODULE FOR MOTHERS

#### Name of inventor(s):

S., KALIAPPAN; V., BALAJI; T., MOTHILAL; S., SELVAKANMANI; S., Arun; T., GODHAVARI; U., Jayalatsumi; P., MURUGAN; G., VASUKIDEVI and K., TAMILARASI

#### Term of Patent:

Eight years from 28 August 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 7th day of October 2020

Commissioner of Patents

63

Department of Electronics and Communication Engineering

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

(12) PATENT APPLICATION PUBLICATION

(19) IND(A

(22) Date of filling of Application (18/11/2020)

(21) Application No.202041050273 A

(43) Publication Date: 27/11/2020

(54) Title of the invention: AN ENHANCED MODEL FOR PROVIDING RELIABLE AND SECURE ENVIRONMENT TO HANDLE ATTACKSIN CLOUD ENVIRONMENT USING MACHINE LEARNING

(31) International classification (31) Priority Document No (32) Priority Doce (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	(71)Name of Applicant:  1)Dr.Rajeswary Hari Address of Applicant Dr.MGR Edocational and Research: Institute Kattankulathur Mathiravoyal Chemia Tamilinada India  (00095 Tamil Nodo India  2)Dr.R.Mythreyi 3)Dr. K. Sujatha 4)Nandhini S 5)Hari Kumar F 6)S.Sarayanan 7)Subashree D 8)S.Visum Dharsini 9)Dr. A. Pandian (72)Name of Inventor: 1)Dr.Rajeswary Hari 2)Dr.R.Mythreyi 3)Dr. K. Sujatha 4)Nandhini S 5)Hari Kumar F 6)S.Sarayanan 7)Subashree D 8)S.Visum Dharsini 9)Dr. A. Pandian 7)Subashree D 8)S.Visum Dharsini 9)Dr. A. Pandian
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#### (57) Abstract

Security has consistently been a significant issue in cloud. Information sources are the most significant and weak data which is pound by assailants to take. On the off chance that information is lost, at that point the protection and security of each cloud client are underwined. Despite the fact that a cloud network is made size about remotely, the danger of an inward aggressor exists. Interior aggressors burgain a weak client hab and gain admittance to a framework. They are associated with the cloud network inside and dispatch assaults claiming to be confided in clients. All approaches are generally utilized for cloud security issues. The current All based security approaches claimaterize a hub as a making trouble high dependent on transient conduct information. These frameworks don't separate whether a getting out of hand hub is a vinductive bub or a messed up high. To address this issue, this paper proposes an Improvised model which learns the conduct of a client and naturally prepares itself and stores the social information. The model can undoubtedly characterize the client conduct as typical or strange. The proposed approach distinguishes an oddity hub as well as discovers whether an acting mischiesously hub is a wrecked hub or another client hub or an undermined hub utilizing the determined trust factor. The proposed model distinguishes the assault precisely as well as lessens the bogus alert in the cloud organization.

No. of Pages: 9 No. of Claums: 8



Patent number: 2020102828

The Commissioner of Patents has granted the above patent on 25 November 2020, and certifies that the below particulars have been registered in the Register of Patents.

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

SETHURAMAN V. S. of Department of Civil Engineering, Dr.M.G.R Educational & Research Institute Maduravoyal, Chennai . Tamilnadu 600 095 India

GOMATHI NAGAJOTHI P. of Department of Civil Engineering, Dr.M.G.R Educational & Research Institute Maduravoyal, Chennai . Tamilnadu 600 095 India

MANIKANDAN M. of Department of Civil Engineering, Dr.M.G.R Educational & Research Institute Maduravoyal, Chennai . Tamilnadu 600 095 India

ARIVUMANGAL A. of Department of Civil Engineering, Dr.M.G.R Educational & Research Institute Maduravoyal, Chennai . Tamilnadu 600 095 India

NARMATHA M. of Department of Civil Engineering, Dr.M.G.R Educational & Research Institute Maduravoyal, Chennai . Tamilnadu 600 095 India

KALIAPPAN S. of Department of Mechanical Engineering, Velammal Institute of Technology Chennai-Kolkotta Highway, Chennai Tamilnadu 601204 India

BALAJI V. of No:9,Second main road, Lakshmipuram Extension West Tambaram,Chennai. Tamilnadu 600045 India

Kavitha E. of Department of Electronics and, Telecommunication Engg. Sir M Visvesvaraya Institute of Technology, Bangalore, Karnataka 562157 India

EZHUMALAI D. S. of No 81, Perichanur village Karanai post, Kandachipuram Taluk Villupuram District 607555. Tamilnadu India

SENTHILRAJAN S. of Department of Mechanical Engineering, A.V.C.College of Engineering Mannampandal, mayiladuthurai Tamilnadu 609305 India

SRIHARAN G. of Department of Mechanical Engineering, A.V.C.College of Engineering Mannampandal, mayiladuthurai Tamilnadu 609305 India

SWAMINATHAN C. of Plot No:4, Dass, Avenue,3rd cross, Velan nagar, Sengarcholai, Tiruchirappalli-620102 Tamil Nadu India

#### Title of invention:

A Novel Method to Determine Enhanced Strength of Recycled Concrete based on Micro Filler Technique

#### Name of inventor(s):

P., SETHURAMAN; P., GOMATHI NAGAJOTHI; M., MANIKANDAN; A., .ARIVUMANGAI; M., NARMATHA; S., .KALIAPPAN; V., BALAJI; E., Kavitha; S., EZHUMALAI; S., SENTHILRAJAN; G., SRIHARAN and C., SWAMINATHAN

Dated this 25th day of November 2020

Commissioner of Patents

67

Department of Civil Engineering

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



Patent number: 2020102828

**Term of Patent:** 

Eight years from 17 October 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 25th day of November 2020

Commissioner of Patents

68

Department of Civil Engineering

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/06/2020

(21) Application No.202041026847 A

(43) Publication Date: 10/07/2020

(71)Name of Applicant : 1)Dr.A.N.Swaminathen

(54) Title of the invention: DURABILITY RESPONSE OF HIGH-PERFORMANCE CONCRETE WITH METAKAOLIN AND RICE HUSK ASH

(51) International classification 29/00
(31) Priority Document No NA
(32) Priority Date INA
(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
Eling Date NA
(62) Divisional to Application Number NA

2)Mr. Gourav Purohit 3)Dr.D.S.Vijayan 4)Mr.Sachin Sharma 5)Dr.V.S.Sethuraman 6)Dr.L.K.Rex 7)Dr.R.Vidya 8)Mr.P.Dinesh Kumar 9)Mr.S.Ramesh 10)Mr.Akash Johari 11)Dr.P.Rajaram 12)Dr.S.Sudhakar (72)Name of Inventor: 1)Dr.A.N.Swaminathen 2)Mr. Gourav Purohit 3)Dr.D.S.Vijayan 4)Mr.Sachin Sharma 5)Dr.V.S.Sethuraman 6)Dr.L.K.Rex 7) Dr.R. Vidya 8)Mr.P.Dinesh Kumar 9)Mr,S.Ramesh 10)Mr.Akash Johari 11)Dr.P.Rajaram 12)Dr.S.Sudhakar

Address of Applicant :Professor & HEAD Department of Civil Engineering, Sree Sakthi Engineering College, Coimbatore-641104, Tamil Nadu, India Tamil Nadu India

#### (57) Abstract:

Filing Date

Concrete is a widely used construction material in developing and developed countries in a structure. After several research results across different countries, the growth of concrete is eyed forward towards the growth of its performance. This high-performance concrete holds the different enhanced properties in it, such as durability by proving resistive to chemically varying atmosphere, reduction of CO2 by reducing the amount of cement, increased Ecology balance by balancing natural resources consumption. The vision of this invention extends towards the effect of mineral admixtures on the durability properties of high-performance concrete. To attend effective results such as low porosity, low water absorption, sorptivity, and proportioning of materials has always been the key parameters. M60 grade of concrete used in this experimental work. Curing is done to 3, 14, 28, 56, and 90 days with 3 sample blocks for each curing period. This different mixture of concrete preferred upon further tests where the durability is determined cautiously. The durability properties of pertially replaced cement are studied based on compressive strength, water absorption, povosity, and somptivity. From the studies conducted, it observed that metakaolin and rice based as halp a vital role in improving the durability of concrete at a later stage and improving the compressive strength at an early age.

No. of Pages: 18 No. of Claims: 4

The Patent Office Journal No. 28/2020 Dated 10/07/2020



### Register of Patents

Patents Act 1990

#### Innovation Patent

Patent no: 2020103249

Patentee(s):

DINESHKUMAR, P. of Addln. HoD, Asst. Professor Computer Science and Engineering Dr.M.G.R. Educational and Research

Research Institute, Maduravoyal, Chennai - 600095, Tamil Nadu India

DURAIRAJ, PRIYA of Assistant Professor Department of Biotechnology Dr.M.G.R. Educational and Research Institute,

Maduravoyal Chennai - 600095, Tamil Nadu India

OMMURUGADHASAN, D. of Professor & Head Mechanical Engineering St. Anne's College of Engineering and Technology, SH 9 Anguchettipalayam, Siruvathur Post Panruti, Tamil Nadu 607106 India

SAM, DAHLIA of Assistant Professor (Department of Information

Technology) Dr.M.G.R. Educational and Research Institute,

Maduravoyal Chennai - 600095, Tamil Nadu India

ARIVALAGAN, S. of Dean and HOD (Civil Engineering) Dr.M.G.R. Educational and Research Institute, Maduravoyal Chennai - 600095, Tamil Nadu India

SENDILVELAN, S. of Dean (Engineering and Technology)

Dr.M.G.R. Educational and Research Institute Maduravoyal, Chennai

Tamil Nadu 600 095 India

BHASKAR, K. of Professor and Head Department of Automobile Engineering Rajalakshmi Engineering College Rajalakshmi Nagar,

Thandalam, Chennai, Tamil Nadu 602 105 India

GOMATHI, K. of Professor Department of Biotechnology Dr.M.G.R Educational and Research, Institute, Maduravoyal

Chennai-600095, Tamil Nadu India

KANIMOZHI, N. of Asst. Professor (Computer Applications) A.V.C College of Engineering Mayiladuthurai- 609305. Tamil Nadu India

SIVAKUMAR, A. of Professor Department of Mechanical Engineering Christ college of Engineering and Technology,

Pondicherry, Moolakulam Pitchaveerampet, Puducherry, 605110 India

ANTONY XAVIER BRONSON, F. of Assistant Professor

Department of Computer Science and Engg. Dr.MGR Educational and Research Institute, Maduravoyal Chennai-600095, Tamil Nadu India

RAJAKUMAR, P. S. of Professor (Computer Science and Engineering) Dr.M.G.R. Educational and Research Institute Maduravoyal Chennai - 600095, Tamil Nadu, India

**Inventor(s):** SENDILVELAN, S.

BHASKAR, K. GOMATHI, K. KANIMOZHI, N. SIVAKUMAR, A.

ANTONY XAVIER BRONSON, F.

RAJAKUMAR P. S. DINESHKUMAR, P. DURAIRAJ, PRIYA

Department of Civil Engineering MMURUGADHASAN. D.

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

ARIVALAGAN, S.

Title: CONTINUOUS POWER GENERATION BY AUTOMATIC

DIRECTION CHANGE IN THE SENSOR LEVEL SYSTEM IN

THE SOLAR PANEL

**Term:** Eight years from 5 November 2020

**Date Granted:** 23 December 2020

**Date Certified:** 

**Date of Patent:** 5 November 2020

Status: GRANTED

**Expiry Date:** 5 November 2028

**Date Ceased:** 

Date Revoked:





Application Details		
APPLICATION NUMBER	201941023457	
APPLICATION TYPE	ORDINARY APPLICATION	
DATE OF FILING	13/06/2019	
APPLICANT NAME	DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE	
TITLE OF INVENTION	DESIGN AND FABRICATION OF SELF-GOVERNING SUBMERGED VEHICLES FOR OCEANIC AND UNDERWATER SAMPLING	
FIELD OF INVENTION	CHEMICAL	
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)	18/12/2020	

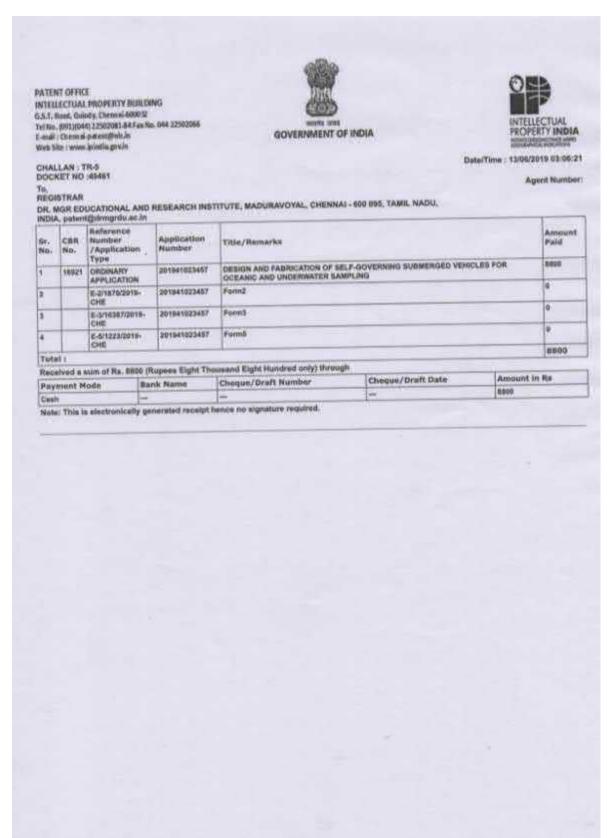
Application Status		
APPLICATION STATUS	Awaiting Request for Examination	
	View Documents	

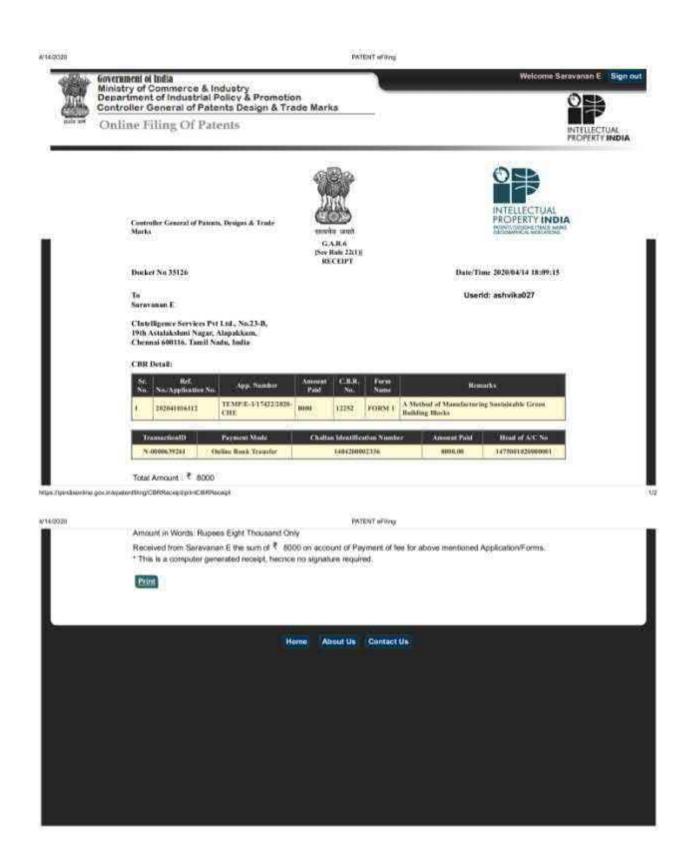
Filed Published RQ Filed Under Examination

Department of Mechanical Engineering

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

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









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

Application Details					
APPLICATION NUMBER	201941023458				
APPLICATION TYPE	ORDINARY APPLICATION				
DATE OF FILING	13/06/2019				
APPLICANT NAME	1 . DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE 2 . DR.RAMANATHAN NARAYANAN 3 . MURUGAN KAMALAHASAN				
TITLE OF INVENTION	PORTABLE AIR POLLUTION MONITORING DEVICE FOR AMBIENT AIR QUALITY ASSESSMENT USING IOT AND GIS TECHNO				
FIELD OF INVENTION	COMPUTER SCIENCE				
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)	18/12/2020				

	Application Status
APPLICATION STATUS	Awaiting Request for Examination
	View Documents

Department of Mechanical Engineering 22 Key Indicator-3.4.3 Research Publications and Awards(10)-Number of Patents published/awarded



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

PATENT OFFICE INTELLECTUAL PROPERTY BUILDING G.S.T. Rost. Daindy, Chennel-6000 32 Tel No. (ISS) (IS Web Site: www.lpindia.gov.in





Agent Number:

Date/Time: 13/06/2019 04:06:46

CHALLAN: TR-5 DOCKET NO:49464

To, REGISTRAR

DR. MGR EDUCATIONAL AND RESEARCH INSTITUTE, MADURAYOYAL, CHENNA! - 600 095, TAMIL NADU,

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
V.	18923	ORDINARY APPLICATION	201941023458	PORTABLE AIR POLLUTION MONITORING DEVICE FOR AMBIENT AIR QUALITY. ASSESSMENT USING IOT AND GIS TECHNO	5500
1		E-2/1873/2019- CHE	201941023458	Form2	0
1.		E-3/16388/2019- CHE	201941023455	Form3	0
		E-6/1224/2019- CHE	201941023458	Form5	0
Tota	1.	B. C. C.	-1-		8800

Received a sum of Rs. 8800 (Rupees Eight Thousand Eight Hundred only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash		-	-	8800

Note: This is electronically generated receipt hence no signature required.

PATENTS ACT 197 THE PATENTS RU	,	d	Application	on No.	20194102	
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ICATION FOR GRA	JLES, 2003		Filing date:		13 106 12	
	ANT OF PATEN	Т	Amount o	of Fee	8800 -	
ection 7, 54 and 13 of rule 20		(1)	CBR No:		18920	
	-,		Signature	e:	1 9 (22	<u> </u>
CANT'S REFEREN CATION NO. (AS A				<u> </u>	(13)	16/ta
OF APPLICATION	[Please tick()	at the	appropri	ate category]		-
(1)	Convention ( )	)		PCT-NP()	,	
Patent of Addition ( )	Divisional ( )			Divisional (	) Patent of Addition (	
3A. APPLICANT(S)	<u> </u>	_1		1	I	
ame in Full	Nationality		·		Address of the Applicant	
				House No.	-	
				Street	Maduravoyal	
	INDIAN INE		OIA	City	Chennai	
n Institute				State	Tamil Nadu	
				Country	India	•
				Pin code	600095	
EGORY OF APP	LICANT [Pleas	e tic	k() at th	e appropriat	te category	
erson ( )	Other tha	an Na	tural Perso	on	•••	
c13011 ( )	Small En	itity (	)	Startup ( )	Othe	ers (√)
ITOR(S) [Please t	tick ()) at the a	ppro	priate ca	tegory]		•
, ,	Yes()		No (	√)		
	Patent of Addition ( )  LICANT(S)  TEGORY OF APP  Person ( )	OF APPLICATION [Please tick ( )  (√)   Convention ( )  II ( )   Patent of Addition ( )  LICANT(S)  ame in Full   Nationality  REducational and ch Institute   INDIAN  TEGORY OF APPLICANT [Please teck ( ) )   Small Enter the action of the ac	OF APPLICATION [Please tick ( ) at the (√)   Convention ( )    II ( )   Patent of Addition ( )   Divisional ( )   Patent of Addition ( )    LICANT(S)   Additional and Charles   INDIAN   INDIAN   INDIAN    TEGORY OF APPLICANT [Please tick of the Institute   Convention ( )    Person ( )   Other than National Entity (   Convention ( )    Terror ( )   Other than National Entity (   Convention ( )    NTOR(S) [Please tick ( ) ) at the approximate inventor(s) same	OF APPLICATION [Please tick ( ) at the appropri  (√)   Convention ( )  al ( )   Patent of Addition ( )   Patent of Addition ( )  LICANT(S)  ame in Full   Nationality   Country of Residence    R Educational and the Institute   INDIAN   INDIA    TEGORY OF APPLICANT [Please tick ( ) at the Person ( )   Other than Natural Person ( )    Small Entity ( )   NTOR(S) [Please tick () at the appropriate case inventor(s) same	OF APPLICATION [Please tick ( ) at the appropriate category]  (	OF APPLICATION [Please tick ( ) at the appropriate category]  (√)   Convention ( )   PCT-NP ( )  II ( ) Patent of Addition ( )   Patent of Additi

Name in Full	Nationality	Country of Residence		Address of the Inventor
Dr. G R Subhashree			House No. Street	Department of Physics, Dr. Me Educational and Research Institute, Maduravoyal
	INDIAN	INDIA	City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095
			House No.	
			Street	Pfizer inc
Dr. R. Kamalraj	INDIAN	INDIA	City	Chennai
	INDIAN	INDIA	State	Tamil Nadu
			Country	India
·			Pin code	600095
		INDIA	House No.	
			Street	Department of Physics, Dr. Mo Educational and Research Institute, Maduravoyal
Dr. C. Andal	INDIAN		City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600095
5. TITLE OF THE INV	ENTION	<u> </u>	<u>.                                    </u>	<del>_</del>
A Method o	f Enhancing th	e Memory A	ctivity using	g Isolated Erythrinine
6. AUTHORISED	IN/ PA I	No.	NIL	·
AGENT(S)	Name	-	State Tamil Nadu  Country India  Pin code 600095  Activity using Isolated Erythrinine  NIL  NIL  NIL  Registrar  0 6 / 2 0 1 9 1 4 : 5 2	
	Mobile I	No.	NIL	
	Name		Registrar	

				Postal Address		Dr. MGR Educational and Research Institute, Maduravoyal, Chennai 600095, Tamil Nadu, India			
		ESS FOR		Telephone N	No.	044-23782	176		
	SERVIC IN INDIA	E OF APPLICA	NT T	Mobile No.		+91 99624	34300		
			Ī	Fax No.			· ·		
			1	E-mail ID		patent@dri	mgrdu.ac.in		
1							PLICATION FILED IN N APPLICATION		
	Country	Application	Filing	Name	of the	Title of the	IPC (as classified in the		
		Number	date	appli	cant	invention	convention country)		
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	Int	ernational applica	ation nun	nber		In	ternational filing date		
		10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION							
	С	Priginal (first) app	lication N	lo.		Date of filing of original (first) application			
		ASE OF PATEN ULARS OF MA					CTION 54,		
_	1	Main application/	patent N	o.		Date o	of filing of main application		
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13-Jun-2019/49460/201941023456/Form		the above name					r(s) for this Invention and declare that tative.		
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R. Kamalnay

Dr. R.Kamalrai

Dr. C. Andal

### (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

CD Blanivar

REGISTRAR

FOR Dr. MGR Educational and Research Institute University) Periyar E.V.R. High Read. daduravayal, Cheanai 600 895



### (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).

Item	Details	Fee	Remarks				
Complete/provisional- specification)#	No. of pages						
No. of Claim(s)	No. of claims and 9 No. of pages 3						
Abstract	No. of pages						
No. of	No. of drawings and 2						
Drawing(s)	No. of pages						
mentioned here.		ŕ	al specification are required to be				
(b) Complete specif	ication (in conformation wi	in the internati	onal application)/as amended				
before the Interr	national Preliminary Exami	nation Authori	ty (IPEA), as applicable (2 copies).				
(c) Sequence listing	(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).						
Service) if the a	(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 pri Report on Pate	-	on/Internationa	al Search Report/International Prelimir				
(g) Statement and L	Indertaking on Form 3						
(h) Declaration of In	ventor-ship on Form 5						
(i) Power of Authorit	(i) Power of Authority						
Total fee	in Cash/ Banker's Che	que /Bank Di	raft bearing No				
Dateon	Bank	ι.					
TENT OFFICE	CHENNAI 1	4/06/2	2019 14:52				

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 13<sup>th</sup> day of June 20. 19

C. B. Extourvely

FOR Dr. MGR Educational and Research Institute

REGISTRAR
Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
(Decaded to be University)
Periyar E.V.R. High Road,
Maduravoyal, Chemnai 600 695

To,

The Controller of Patents

The Patent Office, at. Chennai.



### FORM 5 THE PATENT ACT, 1970 ( 39 OF 1970 )

&

# The Patents Rules, 2003 DECLARATION AS TO INVENTORSHIP

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

1. NAME OF APPLICANT (S)

Dr. VIJI VINOD, Dr. S. RADHA RAMMOHAN, Dr. RAJKUMAR N, Dr. S. V. TRESA SANGEETHA, Dr. GOLDA DILIP and KARTHICK RAMANATHAN SULOCHANAN

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 201941054073 Dated 26th, December, 2019 are

### 2. INVENTOR (S):

1. a. Name:	Dr. VIJI VINOD
b. Nationality	INDIA
c. Address	PROFESSOR AND HOD, DEPARTMENT OF COMPUTER
	APPLICATIONS, DR.M.G.R. EDUCATIONAL AND RESEARCH
	INSTITUTE, MADURAVOYAL, CHENNAI-600095, TAMILNADU,
	INDIA.
2. a. Name:	Dr. S. RADHA RAMMOHAN
b. Nationality	INDIA
c. Address	PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS,
	DR.M.G.R.EDUCATIONAL AND RESEARCH INSTITUTE,
	MADURAVOYAL, CHENNAI-600095, TAMILNADU, INDIA.
3. a. Name:	Dr. RAJKUMAR N
b. Nationality	INDIA
c. Address	RESEARCH MENTOR, ACCENDERE KNOWLEDGE MANAGEMENT
	SERVICES PVT. LTD. (100% SUBSIDIARY OF CL EDUCATE LTD.),
	NEW DELHI, INDIA
4. a. Name:	Dr. S. V. TRESA SANGEETHA
b. Nationality	INDIA
c. Address	LECTURER, DEPARTMENT OF ENGINEERING, AL MUSANNA
	COLLEGE OF TECHNOLOGY, SULTANATE OF OMAN.
3. a. Name:	Dr. GOLDA DILIP
b. Nationality	INDIA
c. Address	ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE
	AND ENGINEERING, SRM INSTITUTE OF SCIENCE AND
	TECHNOLOGY, VADAPALANI, CHENNAI 600026, TAMILNADU,
	INDIA.
4. a. Name:	KARTHICK RAMANATHAN SULOCHANAN
b. Nationality	INDIA
c. Address	LECTURER, DEPARTMENT OF ENGINEERING, AL MUSANNA
	COLLEGE OF TECHNOLOGY, SULTANATE OF OMAN.

Dated this: 05th day of January, 2020

Signature :-

Name: PREM CHARLES I (IN/PA-3311) Patent Agent on Behalf of the Applicant(s)

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

-N.A-

To,

**The Controller of Patent** 

The Patent Office, at Chennai

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

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THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT

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

(FOR	<b>OFFICE</b>	<b>USE</b>	ONL	$\mathbf{Y}$
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<b>Application</b>	No.:	••••	•••••	••••
Filing Date:				

Amount of Fee Paid: .....

CBR No.: ...... Signature: .....

### 1. APPLICANT(S):

Sr.No.	Name	Nationality	Address	Country	State
1	Dr.VIJI VINOD	India	W/O A.VINOD SANKAR, PROFESSOR AND HOD, DEPARTMENT OF COMPUTER APPLICATIONS, DR.M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI, TAMILNADU, INDIA.	India	Tamil Nadu
2	Dr.S.RADHA RAMMOHAN	India	S/O R.SHANTHANAM, PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS, DR.M.G.R.EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI, TAMILNADU, INDIA.	India	Tamil Nadu
3	Dr. RAJKUMAR N	India	S/O M. NARAYANAN, RESEARCH MENTOR, ACCENDERE KNOWLEDGE MANAGEMENT SERVICES PVT. LTD. (100% SUBSIDIARY OF CL EDUCATE LTD.), NEW DELHI, INDIA	India	Delhi
4	Dr.S.V.TRESA SANGEETHA	India	W/O MARIE JOSEPH GERARD, LECTURER, DEPARTMENT OF ENGINEERING, AL MUSANNA COLLEGE OF	Oman	Not Selected

			TECHNOLOGY, SULTANATE OF OMAN.		
5	Dr.GOLDA DILIP	India	W/O M.DILIP, ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, VADAPALANI, CHENNAI, TAMILNADU, INDIA.	India	Tamil Nadu
6	Mr.KARTHICK RAMANATHAN SULOCHANAN	India	S/O SULOCHANAN, LECTURER, DEPARTMENT OF ENGINEERING, AL MUSANNA COLLEGE OF TECHNOLOGY, SULTANATE OF OMAN.	Oman	Not Selected

# 2. INVENTOR(S):

Sr.No.	Name	Nationality	Address	Country	State
1	Dr.VIJI VINOD	India	W/O A.VINOD SANKAR, PROFESSOR AND HOD, DEPARTMENT OF COMPUTER APPLICATIONS, DR.M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI, TAMILNADU, INDIA.	India	Tamil Nadu
2	Dr.S.RADHA RAMMOHAN	India	S/O R.SHANTHANAM, PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS, DR.M.G.R.EDUCATIONAL AND RESEARCH INSTITUTE, MADURAVOYAL, CHENNAI, TAMILNADU, INDIA.	India	Tamil Nadu
	Dr. RAJKUMAR		S/O M. NARAYANAN, RESEARCH MENTOR, ACCENDERE KNOWLEDGE		

3	N	India	MANAGEMENT SERVICES PVT. LTD. (100% SUBSIDIARY OF CL EDUCATE LTD.), NEW DELHI, INDIA	India	Delhi
4	Dr.S.V.TRESA SANGEETHA	India	W/O MARIE JOSEPH GERARD, LECTURER, DEPARTMENT OF ENGINEERING, AL MUSANNA COLLEGE OF TECHNOLOGY, SULTANATE OF OMAN.	Oman	Not Selected
5	Dr.GOLDA DILIP	India	W/O M.DILIP, ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, VADAPALANI, CHENNAI, TAMILNADU, INDIA.	India	Tamil Nadu
6	Mr.KARTHICK RAMANATHAN SULOCHANAN	India	S/O SULOCHANAN, LECTURER, DEPARTMENT OF ENGINEERING, AL MUSANNA COLLEGE OF TECHNOLOGY, SULTANATE OF OMAN.	Oman	Not Selected

3	. TITLE	OF T	HE INVI	ENTION: A	<b>METHOD</b>	FOR IDE	ENTIFICAT	ΓΙΟΝ OF	TEXT C	HARACT1	ERS IN
I	MAGES	<b>FOR</b>	DIRECT	EDITING A	AND TRAI	NSLATIO	N				

### 4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / Telephone No.: 04343233388 **AUTHORISED PATENT AGENT IN INDIA:**

ALLINNOV RESEARCH AND DEVELOPMENT PRIVATE LIMITED NO: 29B, BAIRAPPA COLONY, KRISHNAGIRI,

TAMILNADU-635001

Fax No.:

Mobile No: .....

E-mail: patent@allinnov.org

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

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Tilte of the Invention
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### 6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:

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.VIJI VINOD,Dr.S.RADHA RAMMO SANGEETHA,Dr.GOLDA DILIP,Mr.KARTHICK inventor(s) for this invention and declare that the aprepresentative.	RAMANATHAN SULOCHANAN, is/are the true & first						
(a) Date:							
(b) Signature(s) of the inventor(s):							
(c) Name(s): Dr.VIJI VINOD,Dr.S.RADHA RASANGEETHA,Dr.GOLDA DILIP,Mr.KARTHICK	AMMOHAN,Dr. RAJKUMAR N,Dr.S.V.TRESA KRAMANATHAN SULOCHANAN						
(ii) Declaration by the applicant(s) in the con-	vention country						
I/We, the applicant(s) in the convention country or legal representative.	y declare that the applicant(s) herein is/are my/our assignee						
(a) Date:							
(b) Signature(s):							
	Dr.S.RADHA RAMMOHAN,Dr. RAJKUMAR IP,Mr.KARTHICK RAMANATHAN SULOCHANAN						
(iii) Declaration by the applicant(s)	(iii) Declaration by the applicant(s)						
<ul> <li>The Complete specification relationg to the</li> <li>I am/We are, in the possession of the above</li> <li>There is no lawful ground of objection to the</li> </ul>	e mentioned invention.						

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:						
Sr. Document Description	FileName					
I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.						
Dated this(Final Payment Date):						
	Signature:					
	Name: PREM CHARLES					
To The Controller of Patents						
The Patent office at CHENNAI						

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TH	Application					
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3.A. APPLICANT(S)	1		•	1		
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				Tamil Nadu, India		
			Street	Neelamangala	am	
			City	Kallakurichi		
			State	Tamil Nadu		
			Country	India		
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		House No.	No.69, First C	*		
				Pazhani Pillai	-	
				Koothapakka		
				Cuddalore-60		
S.Ramesh India India				Tamil Nadu,		
			Street	Koothapakkar	m	
			City	Cuddalore		
			State	Tamil Nadu		
			Country	India		

			Pin code	607002
			House No.	2/37, Pillaiyar Koil Street,
				Mattaparai Village
				Villupuram-605201
				Tamil Nadu, India
S.Jaya Prakash	Indian	India	Street	Mattaparai Village
			City	Villupuram
			State	Tamil Nadu
			Country	India
			Pin code	605201
			House No.	116/F, 3 <sup>rd</sup> Main Street,
				V.O.C Nagar,
				Kallakurichi-606 202
				Tamil Nadu, India
A.Joseph Selva Kumar	Indian	India	Street	V.O.C Nagar
			City	Kallakurichi
			State	Tamil Nadu
			Country	India
			Pin code	606 202
			House No.	1/92, R R. Anbagam,
	Indian	India		Kandachimangalam,
				Nagalur(PO),
				Kallakurichi-606 203
A.Sathishkumar				Tamil Nadu, India
A.Samishkumai	maran		Street	Nagalur
			City	Kallakurichi
			State	Tamil Nadu
			Country	India
			Pin code	606 203
			House No.	Professor
				Department of Information
				Science and Engineering,
				College of Engineering
				Anna University
Dr.J.Indumathi	Indian	India		Chennai - 600025
D1.3.maamaam	matan	maia		Tamil Nadu, India
			Street	Anna University
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600025
			House No.	29, Frist East Main Road,
Dr.J.Gitanjali	Indian	India		Gandhi Nagar
21.0				Vellore-632 006
				Tamil Nadu, India.

			Street	Gandhi Nagar		
			City	Vellore		
			State	Tamil Nadu		
			Country	India		
			Pin code	632 006		
			House No.	Dr.M.G.R Educational and		
				Research Institute,		
				Chennai-600095		
				Tamil Nadu, India		
V.R.Niveditha	Indian	India	Street	Dr.M.G.R Educational and		
v.K.Nivedima	mulan	India		Research Institute		
			City	Chennai		
			State	Tamil Nadu		
			Country	India		
			Pin code	600095		
			House No.	Dr.M.G.R Educational and		
				Research Institute,		
				Chennai-600095		
	Indian	India		Tamil Nadu, India		
Dr.S.Radha Rammohan			Street	Dr.M.G.R Educational and		
Di.S.Kaulia Kalililollali				Research Institute		
			City	Chennai		
			State	Tamil Nadu		
			Country	India		
			Pin code	600095		
			House No.	22/102, 2 <sup>nd</sup> Street,		
				Venkatesa Nagar,		
				Vriugambakkam,		
				Chennai-600 092		
S.Magesh	Indian	India		Tamil Nadu, India		
5.iviagesii	Illulali		Street	Vriugambakkam		
			City	Chennai		
			State	Tamil Nadu		
			Country	India		
			Pin code	600 092		
3.B. Category of applicant			te category]			
Natural Person( √ )	Other than Na					
	Small Entity Startup ( ) Others( )					
4. Inventor(s) [ Please tick	() at the appro	oriate category]				
Are all inventor(s) same	Ye	es ( ✓ )	No ( )			
As the applicant(s) named						
If "No", furnish the detail		· <i>'</i>				
Name in Full N	<del>ationality</del>	Country of		Address of the Inventor		
		Residence				
			House N	<del>0,</del>		

				_		
			<u> </u>	Street		
			<u>_</u>	City		
			_ ;	State		
			-	Country		
				Pin cod	<b>e</b>	
5. TITLE OF THE						
Mobile Sim	ulator Based Locati	ng Multiple (	GPS Jammer	rs Using	g Wireless	Networked UAVs
6.AUTHORISED	<b>REGISTERED PATENT</b>	Γ	IN/PA N	о.		NA
AGENT(S)			Name			NA
			Mobile N	No.		NA
7.ADDRESS FOR	SERVICE FOR APPLI	CANT IN INDIA	Name		]	Dr.P.Rajaram
			Postal A	ddress	Associat	e Professor
					Compute	er Science and
					Engineer	
					_	emorial College of
						ring and Technology,
					Neelama	
						richi – 606 202
					Tamil N	adu, India
			Telepho	ne No.		NA
			Mobile N			8754340256
			Fax. No.			NA
			E-mail	ID	rajaran	mov82@gmail.com
8.IN CASE OF A	PPLICATION CLAIMIN	IG PRIORITY O				<u>_</u>
	F CONVENTION APP					,
				.		IPC( as classified in
Country	Application	Filing Date	Name of the		tle of the	the convention
,	Number		Applican	ŧ   #	<del>vention</del>	country)
9. IN CASE OF	PCT NATIONAL PHA	SE APPLICATION	ON, PARTICU	JLARS C	F INTERNA	ATIONAL APPLICATION
FILED UNDER PA	ATENT CO-OPERATIO	ON TREATY (PC	<del>:T)</del>			
Internat	ional application nu	mber		Inter	national fil	ling date
10. IN CASE O	F DIVISIONAL APPL	ICATION FILE	UNDER SE	CTION	16, PARTI	CULARS OF ORIGINAL
(FIRST) APPLICA	<del>ITION</del>					
Origin	al (first) application f	<del>Vo.</del>	Date of filing of original (first) application			
11. IN CASE OF	PATENT OF ADDITIO	N FILED UNDE	R SECTION S	54, PAR	FICULARS (	OF MAIN APPLICATION
OR PATENT						
Main	Date of filing of main application			n application		
12. DECLARATION	ONS					
(i) Decla	aration by the invent	tor(s)				
/1		•		·		

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

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

(a) Date

Signature

Signature

Name Dr.P.Rajaram Name

S.Ramesh

Signature

Signature

S.Jaya Prakash Name

Name

A. Joseph Selva Kumar

Signature

1 Salkyltimer

Signature

Name

A.Sathishkumar

Name

Dr.J.Indumathi

Signature

: Dr.S.Radha Rammohan

Signature

Dr.J.Gitanjali Name

Name Signature V.R.Niveditha

Signature

Name

Name S.Magesh

#### (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) 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)

I/We the applicant(s) hereby declare(s) 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(s) to the grant of the Patent to us.
- We are the true & first inventor(s).
- 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 in respect of our invention(s).
- We claim the priority from the above mentioned application(s) filed in convention country and state that no application for protection in respect of the invention had been made in a convention country before that date by us or by any person from which we derive the title.
- 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 our application particulars of which is given in Paragraph-10

and pray that th	is application may be		have been filed on				
The said invention is	under section 16 of the Assaurance an improvement in or mode		n particulars of which are				
given in Paragraph-1	· · · · · · · · · · · · · · · · · · ·		· particulars or wineir are				
13. FOLLOWING ARE THE A	TTACHMENTS WITH THE AF	PPLICATION					
(a) Form 2							
Item	Details	Fee	Remarks				
Complete-Specification	No. of Pages : 7						
No. of Claim(s)	No. of Claims : 5						
	No. of Pages : 1						
Abstract	No. of Pages : 1						
No. of Drawing(s)	No. of Drawings: 3						
_	No. of Pages : 3						
# 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 Inventorship on Form 5  (i) Power of Authority  (j)							
	Total fee ₹n Cash/ Banker's Cheque /Bank Draft bearing No Dateon						
Bank.	: احماد معال سام على العماد ا	nformation and haliaftle	o foot and matters slated				
•	We hereby declare that to the best of our knowledge, information and belief the fact and matters slated herein are correct and We request that a patent may be granted to us for the said invention.						
Dated thisday of2020							

S.Ramesh Name Name

Signature

Dr.P.Rajaram

Signature Signature

Name S.Jaya Prakash Name A.Joseph Selva Kumar

Signature

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1 datharktumer

Signature

Name

A.Sathishkumar

Name Signature

Dr.J.Indumathi

Signature

Name

V.R.Niveditha

Signature

Dr.J.Gitanjali Signature

Name

Name

Dr.S.Radha Rammohan

Name

S.Magesh

To,

The Controller of Patents

The Patent Office, at Chennai

	(FOR OFFCIE USE ONLY)					
TH	Application					
	No.					
	Filing Date:					
THE	PATENT RULES	, 2003		Amount of Fe	e	
ΔΡΟΙΙζΑΤΙ	ON FOR GRAN	T OF PATENT		Paid:		
				CBR No:		
(See section 7, 54	and 135 and su	ıb-rule (1) of ru	le 20)	Signature:		
1. APPLICANT'S REFE	RENCE / IDENTI	FICATION NO.				
(AS ALLOTTED BY C	OFFICE)					
2. TYPE OF APPLICATI	ON [Please tick	x (√) at the app	ropriate categ	ory]		
Ordinary( √ )		Conver	ition()	PCT-NP(	)	
Divisional	Patent of	Divisional	Patent of	Divisional	Patent of	
()	Addition ( )	()	Addition (	()	Addition ( )	
2 A ADDUCANT(C)			)			
3.A. APPLICANT(S)	1	Country				
Name in Full	Nationality	of	Δd	ddress of the Applicant		
realise in rain	reactionality	Residence	Au			
		India	House No.	2 <sup>nd</sup> Street, Venkatesa Nagar,		
				Virugambakkam,Chennai-		
				600092, Tamil Nadu, India		
Mr.S. Magesh	Indian		Street	Venkatesa Nagar Chennai		
William Wingcom	maran		City	Tamil Nadu		
			State	India		
			Country Pin code	600092		
			House No.	Assistant Profess	For	
			nouse No.	Department of E		
				Communication	Engineering	
				CK College of E	ngineering &	
				Technology, Jeya		
				Chellangkuppam Cuddalore – 607		
Mr.K.Mahendran	Indian	India		Tamil Nadu, Ind		
			Street	Chellangkuppam	1	
			City	Cuddalore		
			State	Tamil Nadu		
			Country	India		
			Pin code	607003		
			House No.	#105 B Block T		
M 37 D M 12.4	T 11	T 1:		TNHB Flats, Th		
Mrs.V.R.Niveditha	Indian	India		Opp.Hp Petrol B West Ext.,Chenr		
				Tamil Nadu, Ind		

			Street	Annanagar West Ext.
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600040
			House No.	Sri Annai Illam, 18, Chettikulam
			House No.	Street, NGO Nagar,
				Big Kancheepuram
				Kancheepuram- 631502
				Tamil Nadu, India
Dr.S.Radha Rammohan	Indian	India	Street	NGO Nagar
			City	Kancheepuram
			State	Tamil Nadu
			Country	India
			Pin code	631502
			House No.	S2-Pallav Soundarya,
				II Floor ,No.1 Alwar Nagar I
				Street, Nanganallur, Chennai-
				600061, Tamil Nadu, India
Mrs.N.Jayashri	Indian	India	Street	Alwar Nagar I
			City	Chennai
			State	Tamil Nadu
			Country	India
			Pin code	600061
			House No.	E7-50, KRP Colony,
				Sullurpet, Nellore -524121,
			Street	Andra Pradesh, India KRP Colony
Mrs.K. Sudha	Indian	India		Nellore
			City	Andra Pradesh
			State	India
			Country	
			Pin code	524121
			House No.	Assistant Professor
				PG and Research Department of Computer Science,
				St. Joseph's College of Arts and
				Science, Cuddalore- 607001,
				Tamil Nadu, India
Dr. R. Vidya	Indian	India	Street	St. Joseph's College of Arts and
				Science
			City	Cuddalore
			State	Tamil Nadu
			Country	India
			Pin code	607001
			House No.	#69,First Cross Street,
				Pazhani Pillai Nagar,
Mr.S.Ramesh	Indian	India		Koothapakkam, Cuddalore-607002
				Tamil Nadu, India
			Street	Pazhani Pillai Nagar
	[		Jucci	

			City	Cuddalore			
			State	Tamil Nadu			
			Country	India			
			Pin code	607002			
			House No.	# 758 ,Kattukottai, Namasivayapuram(Village), Thottiam(Po), Kallakurichi-606 201 Tamil Nadu, India			
Dr.P.Rajaram	Indian	India	Street	Kattukottai			
			City	Kallakurichi			
			State	Tamil Nadu			
			Country	India			
			Pin code	606 201			
Dr. Pankaj Dadheech	Indian	India	House No.	Associate Professor Department of Computer Science & Engineering Swami Keshvan and Institute of Technology, Management & Gramothan, Ramnagaria, Jagatpura, Jaipur- 302 017,Rajasthan, India			
		India	Street	Jagatpura			
			City	Jaipur			
			State	Rajasthan			
			Country	India			
			Pin code	302 017			
Dr.S.R.Dogiwal	Indian		House No.	Associate Professor, Department of Information Technology, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Ramnagaria, Jagatpura, Jaipur, Rajasthan, India-302017			
			Street	Ramnagaria			
			City	Jaipur			
			State	Rajasthan			
			Country	India			
			Pin code	302017			
3.B. Category of applicant	[Please tick( ) a	t the appropria		1			
Natural Person( ✓ ) Other than Natural Person							
, ,	Small Entity ()	Startup ( )		Others( )			
	4. Inventor(s) [ Please tick( ) at the appropriate category]						
Are all inventor(s) same		Ye	es ( ✓ )	No ( )			
As the applicant(s) named above?							
If "No", furnish the details		· ·					
Name in Full Nationality Country of Address of the Inventor							

		Resi	dence				T
				Hous	se N	<del>0.</del>	
				Stree	eŧ _		
				City			
				State	9		
				Cour	<del>itry</del>		
				Pin c	ode	<b>)</b>	
5. TITLE OF THE	INVENTION						
Accuracy of C	) Den-Air Tempera	ture Predicti	on by Sm	art W	Veat	ther Mon	itoring System for
Effective Ana	lytics using IoT De	evices	-				
6.AUTHORISED	REGISTERED PATENT	Т	IN/PA	No.			NA
AGENT(S)			Name				NA
			Mobile	No.			NA
7.ADDRESS FOR	R SERVICE FOR APPLI	CANT IN INDIA	Name				Mr.S. Magesh
			Postal	Addre	SS		eet, Venkatesa Nagar,
							/irugambakkam
							Chennai-600092
			Talauk	NI		1	amil Nadu, India
			Teleph		0.		NA 9790911374
			Mobile				
			Fax. No			41- : -	NA magesh@gmail.com
			l l	ail ID			
	PPLICATION CLAIMIN OF CONVENTION APP		<del>F APPLICA</del>	HON F	HELI	<del>D IN CONV</del>	<del>ENTION COUNTRY,</del>
	<b>Application</b>		Name of	the	Tit	le of the	IPC( as classified in
<del>Country</del>	Number	Filing Date	Applica	•		vention	the convention
							<del>country)</del>
	<del>PCT NATIONAL PHA!</del> <del>ATENT CO OPERATIC</del>		•	CULAR	s O	F INTERNA	TIONAL APPLICATION
Internat	ional application nui	mber	International filing date				ing date
10. IN CASE O	F DIVISIONAL APPL	ICATION FILE	UNDER	SECTIO	NC	16, PARTI	CULARS OF ORIGINAL
(FIRST) APPLICA	<del>\TION</del>						
Original (first) application No.		Date of filing of original (first) application					
11. IN CASE OF	PATENT OF ADDITIO	N FILED UNDE	R SECTION	I 54, P.	ART	ICULARS (	F MAIN APPLICATION
OR PATENT							
Main	application/patent N	<del>Vo.</del>	Date of filing of main application				n application
12. DECLARATION	ONS						
(i) Dock	aration by the invent	or(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).

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

(a) Date

1. Signature : S. Hagel 2. Signature :

Name : Mr.S.Magesh Name : Mr.K.Mahendran

3. Signature : 4. Signature :

Name : Mrs.V.R.Niveditha Name : Dr.S.Radha Rammohan

5. Signature : 6. Signature : 1

Name : Mrs.N.Jayashri Name : Mrs.K.Sudha

7. Signature : 8. Signature :

Name : Dr.R.Vidya Name : Mr.S.Ramesh

9. Signature : 10. Signature : P

Name : Dr.P.Rajaram Name : Dr.Pankaj Dadheech

11. Signature :

Name : Dr. S.R.Dogiwal

#### (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) 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)

I/We the applicant(s) hereby declare(s) 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(s) to the grant of the Patent to us.
- We are the true & first inventor(s).
- 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 in respect of our invention(s).
- We claim the priority from the above mentioned application(s) filed in convention country and

- state that no application for protection in respect of the invention had been made in a convention country before that date by us or by any person from which we derive the title.
- 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 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 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
<b>Complete Specification</b>	No. of Pages : 6		
No. of Claim(s)	No. of Claims : 3		
No. of Claim(s)	No. of Pages : 1		
Abstract	No. of Pages : 1		
No of Drawing(s)	No. of Drawings : 2		
No. of Drawing(s)	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 Inventorship on Form 5
- (i) Power of Authority

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

Dated this ......day of ......2020

1. Signature : S. Happe 2. Signature :

Name : Mr.S.Magesh Name : Mr.K.Mahendran

3.Signature

Duedine

4.Signature

S - St. L. Roundson

Name

: Mrs.V.R.Niveditha

Name

Dr.S.Radha Rammohan

5.Signature

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6.Signature

WI!

Name

: Mrs.N.Jayashri

Name

Mrs.K.Sudha

7.Signature

J hill

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09

Name

: Dr.R.Vidya

Name

Mr.S.Ramesh

9.Signature

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10.Signature

Per

Name

: Dr.P.Rajaram

Name

: Dr.Pankaj Dadheech

11.Signature:

DA:12

Name

: Dr. S.R.Dogiwal

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)]

(FC	JD	OFF	CF	<b>USE</b>	ONI	V
T	JΚ	OFF.	I C.E.	USE	UNI	/ Y )

Application	No.:
Filing Date:	

**Amount of Fee Paid: .....** 

CBR No.: ...... Signature: .....

### 1. APPLICANT(S):

Sr.No.	. Name	Nationality	Address	Country	State
1	Dr. S. NIRMALA SUGIRTHA RAJINI	India	Professor, Department of Computer Applications, Dr.M.G.R.Educational and Research Institute., Periyar E.V.R High Road, Maduravoyal, Chennai, Tamil Nadu, India 600095.	India	Tamil Nadu
2	Dr.D.SARAVANAN	India	Associate Professor, Operations & IT,IFHE University, IBS Hyderbad,The ICFAI Foundation for Higher Education (Declared as Deemed-to-be university u/s 3 of the UGC Act 1956), Dontanpalli (Village), Shankerpalli Road,Hyderabad, Telangana., India.Pin: 501203.	India	Telangana
3	Dr B. MUTHUKUMAR	India	Professor, Computer Science and Engineering, Mohamed Sathak A J College of Engineering,IT Park, Siruseri, Old Mahabalipuram Road, Chennai, Tamil Nadu 603103	India	Tamil Nadu
4	Dr. S. MATHIVILASINI	India	Assistant Professor, Computer Science, Ethiraj College for	India	Tamil Nadu

	_	_	_	_	_
			Women- Chennai, Chennai, Tamil Nadu, India-600 008		
5	Dr.D. SRIDEVI	India	Assistant Professor, Computer Science, Ethiraj College for Women- Chennai, Chennai, Tamil Nadu, India-600 008	India	Tamil Nadu
6	Dr. S. VAITHYASUBRAMANIAN	India	Assistant Professor, Mathematics, Sathyabama Institute of Science And Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 119	India	Tamil Nadu
7	Dr .CHANDU P. M.S.S	India	Associate Professor, Department of CSE, Siddarth Institute of Engineering and Technology, Puttur. Narayanavanam Road, Near Tirupathi -Chennai Highway, Siddharth Nagar, Puttur, Chittoor, Andhra Pradesh - 517583	India	Andhra Pradesh
8	S.LEENA NESAMANI	India	Research Scholar, Department of Computer Applications, Dr.M.G.R.Educational and Research Institute, Periyar E.V.R High Road, Maduravoyal, Chennai, Tamil Nadu, India -600095	India	Tamil Nadu

### 2. INVENTOR(S):

Sr.No.	Name	Nationality	Address	Country	State
1	Dr. S. NIRMALA SUGIRTHA RAJINI	India	Professor, Department of Computer Applications, Dr.M.G.R.Educational and Research Institute., Periyar E.V.R High Road,		Tamil Nadu

	•				
			Maduravoyal, Chennai, Tamil Nadu, India 600095.		
2	Dr.D.SARAVANAN	India	Associate Professor, Operations & IT,IFHE University, IBS Hyderbad, The ICFAI Foundation for Higher Education (Declared as Deemed-to-be university u/s 3 of the UGC Act 1956), Dontanpalli (Village), Shankerpalli Road, Hyderabad, Telangana., India. Pin: 501203.	India	Telangana
3	Dr B. MUTHUKUMAR	India	Professor, Computer Science and Engineering, Mohamed Sathak AJ College of Engineering,IT Park, Siruseri, Old Mahabalipuram Road, Chennai, Tamil Nadu 603103	India	Tamil Nadu
4	Dr. S. MATHIVILASINI	India	Assistant Professor, Computer Science, Ethiraj College for Women- Chennai, Chennai, Tamil Nadu, India-600 008	India	Tamil Nadu
5	Dr.D. SRIDEVI	India	Assistant Professor, Computer Science, Ethiraj College for Women- Chennai, Chennai, Tamil Nadu, India-600 008	India	Tamil Nadu
6	Dr. S. VAITHYASUBRAMANIAN	India	Assistant Professor, Mathematics, Sathyabama Institute of Science And Technology, Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai - 119	India	Tamil Nadu
7	Dr .CHANDU P. M.S.S	India	Associate Professor, Department of CSE, Siddarth Institute of Engineering and Technology, Puttur. Narayanavanam Road, Near Tirupathi	India	Andhra Pradesh

			-Chennai Highway, Siddharth Nagar, Puttur, Chittoor, Andhra Pradesh - 517583	
8	S.LEENA NESAMANI	India	Research Scholar, Department of Computer Applications, Dr.M.G.R.Educational and Research Institute, Periyar E.V.R High Road, Maduravoyal, Chennai, Tamil Nadu, India -600095	Tamil Nadu

#### 3. TITLE OF THE INVENTION: MACHINE TO MACHINE (M2M) CROSS LAYER ROUTING PROTOCOL METHOD FOR SMART CITY DATA MANAGEMENT SYSTEM

4.	ADI	DRESS	<b>FOR</b>	CORR	ESPON	NDENC	E OF
٨	DDI	ICANT	' / A TT	LIIVDI	CEDDA	TENT	ACENT

Fax No.:

Telephone No.:

Dr. S. NIRMALA SUGIRTHA RAJINI, Professor,

Department of Computer Applications,

Mobile No: ....

Dr.M.G.R.Educational and Research Institute., Periyar E.V.R E-

High Road, Maduravoyal, Chennai, Tamil Nadu, India 600095.

mail: nirmalasugirtharajini.mca@drmgrdu.ac.in

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

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Tilte 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	on
--	----

#### 8. PARTICULARS FOR FILING PATENT OF ADDITION:

3.6	A 10 40	/ TD / / DT I	
Viain	Application	/ Patent Number:	

**Date of Filing of Main Application** 

#### 9. DECLARATIONS:

### (i) Declaration by the inventor(s)

I/We ,Dr. S. NIRMALA SUGIRTHA RAJINI,Dr.D.SARAVANAN,Dr B. MUTHUKUMAR,Dr. S. MATHIVILASINI,Dr.D. SRIDEVI,Dr. S. VAITHYASUBRAMANIAN,Dr .CHANDU P. M.S.S,S.LEENA NESAMANI, 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):
- 1 Dr. S. NIRMALA SUGIRTHA RAJINI

Inskaj.

5 Dr.D. SRIDEVI

D. Sndi

2 Dr.D.SARAVANAN



6 Dr. S.
VAITHYASUBRAMANI



3 Dr B. MUTHUKUMAR



7 Dr .CHANDU P. M.S.S



4 Dr. S. MATHIVILASINI



8 S.LEENA NESAMANI



#### (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 singularity:
- 1 Dr. S. NIRMALA SUGIRTHA RAJINI

Snekaj

5 Dr.D. SRIDEVI

D. Snow

2 Dr.D.SARAVANAN



6 Dr. S. VAITHYASUBRAMANI



3 Dr B. MUTHUKUMAR



7 Dr .CHANDU P. M.S.S

(CHANDU P.M.S.S.)

4 Dr. S. MATHIVILASINI



8 S.LEENA NESAMANI

Leen Nesan 9

### (iii) Declaration by the applicant(s)

- The Complete specification relationg to the invention is filed with this application.
- I am/We are, in the possession of the above mentioned invention.

• There is no lawful ground of objection to the grant of the Patent to me/us.

### 10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

Sr.	Document Description	FileName
	hereby declare that to the best of my/our knowledge, information and long are correct and I/We request that a patent may be granted to me/us	
Dated t	his(Final Payment Date):	
To The	Controller of Patents	
The Par	ent office at	
CHEN	NAI	





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

新中年: 044117675



पेटेंट सं. / Patent No.

332535

आवेदन सं. / Application No.

5845/CHE/2014

फाइल करने की तारीख / Date of Filing

21/11/2014

पेटेटी / Patentee

M. VIJAY ANAND

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित TOOTHBRUSH FOR TEACHING PROPER BRUSHING TECHNIQUE नामक आविष्कार के लिए, पेटेंट अधिनियम, १६७० के उपवंशों के अनुसार आज तारीख 21st day of November 2014 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 TOOTHBRUSH FOR TEACHING PROPER BRUSHING TECHNIQUE as disclosed in the above mentioned application for the term of 20 years from the 21st day of November 2014 in accordance with the provisions of the Patents Act,1970.

INTELLECTUAL

ROPERTY ENDIA

सनुवान को लागिख 20/02/2020 Date of Grant :

पेटेट विशेष Controller of Patent

रिपर्ण - इस पेटेंट के नवीकरण में लिए फीस. पीट इसे बनाए रखा जाना है, 21st day of November 2016को और उसके परवात प्रापेक वर्षा में उसी दिन देव होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 21st day of November 2016 and on the same day in every year thereafter.

Department of Prosthodontics and Crown & Bridge

Divisional   Patent of   Addition (✓)   ( )   Addition ( )   ( )    3A. APPLICANT(S)  Name in Full   Nationality   Country of   Residence   How   Street    Dr. M. S. JOSEPHINE   INDIAN   INDIA   City   Start   Country of   Residence   Pin   Name in Full   Nationality   Country of   Residence   Country of   Residence   Residence   Country of   Cou	2.0	2040562 1750   - 43679 2017 1750   -
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 Ordinary ( ✓ )  Divisional Patent of Addition ( ✓ ) ( )  Addition ( ✓ ) ( )  Addition ( ✓ ) ( )  AA. APPLICANT(S)  Name in Full Nationality Country of Residence  Dr. M. S. JOSEPHINE INDIAN INDIA  City State Country of Residence  Name in Full Nationality Country of Residence	2_t	43679 43679 43679
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 Ordinary ( ✓ )	categor	43679 43679 43679
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 Ordinary ( ✓ )	categor	1,220 -
paid: CBR No: Signature:  1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)  2. TYPE OF APPLICATION [Please tick (✓) at the appropriate Ordinary (✓) Convention () Polivisional Patent of Divisional Patent of Addition () ()  3A. APPLICANT(S)  Name in Full Nationality Country of Residence  Dr. M. S. JOSEPHINE INDIAN INDIA  City Star Country of Residence  Name in Full Nationality Country of Residence  Name in Full Country of Residence	categor	V)
CBR No: Signature:  1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)  2. TYPE OF APPLICATION [Please tick ( * *) at the appropriate Ordinary ( * *) Divisional Patent of Addition ( *) Addition ( * *) Addition ( * *)  Name in Full Nationality Country of Residence  Dr. M. S. JOSEPHINE INDIAN INDIA  City Sta Cou Pin Name in Full Nationality Country of Residence	T-NP ()	v)
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)  2. TYPE OF APPLICATION [Please tick (✓) at the appropriate Ordinary (✓) Convention () PC Divisional Patent of Divisional Patent of Addition () ()  3A. APPLICANT(S)  Name in Full Nationality Country of Residence  Dr. M. S. JOSEPHINE INDIAN INDIA  City Star Country of Residence  Name in Full Nationality Country of Residence  Name in Full Country of Residence	T-NP ()	v)
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2. TYPE OF APPLICATION [Please tick (✓) at the appropriate  Ordinary (✓)	T-NP ()	
Ordinary ( ) Convention ( ) PC  Divisional Patent of Addition ( ) ( ) Addition ( ) ( )  3A. APPLICANT(S)  Name in Full Nationality Country of Residence  Dr. M. S. JOSEPHINE INDIAN INDIA  City State Country of Residence  Name in Full Nationality Country of Residence  Name in Full Residence	T-NP ()	
Divisional () Addition (✓) () Addition () ()  3A. APPLICANT(S)  Name in Full Nationality Country of Residence  Dr. M. S. JOSEPHINE INDIAN INDIA  City Start Country of Residence  Name in Full Nationality Country of Residence  INDIAN INDIA  City Start Country of Residence	Editorii Sectionii	Patent of Addition
() Addition ( ) ( ) Addition ( ) ( )  3A. APPLICANT(S)  Name in Full Nationality Country of Residence  Dr. M. S. JOSEPHINE INDIAN INDIA  City Star Cou Pin  Name in Full Nationality Country of Residence	/isional	Patent of Addition
Name in Full  Nationality  Country of Residence  How Street  Dr. M. S. JOSEPHINE  INDIAN  INDIA  City State Country of Residence  Name in Full  Nationality  Country of Residence		THE SOURCE SET TO THE AMERICAN ACCORDANCE PROJECTS
Name in Full  Nationality  Country of Residence  How Street  Dr. M. S. JOSEPHINE  INDIAN  City Star  Country of Residence  Name in Full  Nationality  Country of Residence	18 30	<del>                                      </del>
Dr. M. S. JOSEPHINE INDIAN INDIA  City Star Cou Pin  Name in Full  Nationality  Residence  Hoc Stre Cou Pin Residence		
Dr. M. S. JOSEPHINE INDIAN INDIA  City Sta  Cou Pin  Name in Full Nationality Country of Residence	dress of	the Applicant
Dr. M. S. JOSEPHINE INDIAN INDIA  City Sta Cou Pin  Name in Full Nationality Country of Residence	use No.	Н3-Т3
Dr. M. S. JOSEPHINE INDIA  City Star Cou Pin  Name in Full  Nationality  Country of Residence	agentana anananana	VGN Minerva,
Name in Full  Nationality  Residence		nolumbur,273, Gur
Name in Full Nationality Country of Residence		chennai
Name in Full Nationality Country of Residence	te	Tamilnadu
Name in Full Nationality Country of Residence	intry	India
Residence	code	600095
Hou	Addre	ess of the Applicant
l l	ise No.	Velammal enginee college
Stre	et	surapet
Dr. V. JEYABALARAJA INDIAN INDIA City		chennai
Stat	e	Tamilnadu
1	***	s&1

1				
			Country	India
			Pin code	600066
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
	Printer.	Sec. 35.00	House No.	Dr. M.G.R Educational and research institute
			Street	Madhuravoyal
DR. S. KEVIN ANDREWS	INDIAN	INDIA	City	chennai
*	INDIAN	INDIA	State	Tamilnadu
1		3	Country	India
		J	Pin code	600095
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
		erado.	House No.	Dr. M.G.R Educational and Research Institute
			Street	Madhuravoyal
Ms. NITHYA.V	INDIAN	INDIA	City	chennai
IVIS. INTI IT T.A. V			State	Tamil Nadu
		e e	Country	India
			Pin code	600095
Name in Full	Nationality	Country of Residence		ess of the Applicant
			House No.	Anna Adarsh College for Women
M.ANITA PRISCILLA			Street	A-1 II Street, Off, 9th Main Rd, Anna Nagar,
MARY	Indian	India	City	Chennai
American de la contraction de			State	Tamil nadu
ľ			Country	India
S 000000	1		Pin code	600040
Name in Full	Nationality	Country of Residence	Addre	ess of the Applicant
	8	S 10 00 00 10 10 10 10 10 10 10 10 10 10	House No.	Panimalar engineering college
VINMATHI M S	76 31 21		Street	Banglore trunk road, poonmallee
VINVEXTIII W.S	INDIAN	INDIA	City	Chennai
			State	Tamil nadu
		(38)	Country	India
	· · · · · · · · · · · · · · · · · · ·	2	Country	india

200 200 200 200 200 200 200 200 200 200			Pin code	600123	
Name in Full	Nationality	Country of	Addr	ess of the Applicant	
19.0000 N		Residence			
*	e		House No.	Panimalar engineering college	
V. SATHIYA	INDIAN	INDIA	Street	Banglore trunk road, poonmallee	
			City	Chennai	
			State	Tamil nadu	
			Country	India	
			Pin code	600123	
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant	
			House No.	Panimalar engineering college	
Sec. M. S. Market Spiriters and Victorian Co.	B 200 200 200000	1	Street	Banglore trunk road, poonmallee	
MAHESWARI M	INDIAN	INDIA	City	Chennai	
	•		State	Tamil nadu	
	i e		Country	India	
			Pin code	600123	
Name in Full	Nationality	Country of Residence	Addre	ess of the Applicant	
NO ST	INDIAN	i de la companya de l	House No.	Loyola college	
		- San	Street	Sterling road,nugambakam	
M. REGINA		INDIA	City	chennai	
	INDIAN	INDIA	State	tamilnadu	
			Country	India	
200 - 20 - 20 - 20 - 20 - 20 - 20 - 20			Pin code	600034	
B. CATEGORY OF APPLICAN	T [Please tick (	√) at the appropriate of the property of	ropriate catego	ory]	
Natural Person ()	Other than Natural Person				
	Small Ent	ity()	Startu	Others ( )	
			p (		
4. INVENTOR(S) [Please ti	ck (✓) at the a	ppropriate ca	tegory]		
Are all the inventor(s)	Yes (✓)	-	No ( )		
20	2 200 51				
		3			
				* 45	

	If "No", furnish the details of the inventor(s)										
	Name in Full	Nationality	Country of Residence	Address of the Applicant							
	7 575 9240 3760	N 10 12 1923 202	- ST - 400	House No.	H3-T3						
	Dr. M. S. JOSEPHINE	INDIAN	INDIA	Street	VGN Minerva, nolumbur,273, Gurusamy road						
				City	chennai						
				State	Tamilnadu						
				Country	India						
				Pin code	600095						
	Name in Full	Nationality	Country of Residence	Addre	ess of the Applicant						
	- 10			House No.	Velammal engineering college						
				Street	surapet						
	Dr. V. JEYABALARAJA	INDIAN	INDIA	City	chennai						
				State	Tamilnadu						
				Country	India						
				Pin code	600066						
	Name in Full	Nationality	ess of the Applicant								
	,	-	:	House No.	Dr. M.G.R Educational and research institute						
			INDIA	Street	Madhuravoyal						
	DR. S. KEVIN ANDREWS	INDIAN		City	chennai						
				State	Tamilnadu						
			i .	Country	India						
				Pin code	600095						
	Name in Full	Nationality	Country of Residence	Addre	ess of the Applicant						
				House No.	Dr. M.G.R Educational and Research Institute						
	Ms. NITHYA.V	INIDIANI	DIDIA	Street	Madhuravoyal						
		INDIAN	INDIA	City	chennai						
				State	Tamil Nadu						
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				Country	India	
				Pin code	600095	
	Name in Full	Nationality	Country of	Address of the Applicant		
			Residence	95		
		997		House No.	Anna Adarsh College for Women	
				Street	A-1 II Street, Off, 9th Main Rd, Anna Nagar,	
	M.ANITA PRISCILLA MARY	Indian	India	City	Chennai	
	MAKI			State	Tamil nadu	
				Country	India	
				Pin code	600040	
	Name in Full	Nationality	Country of Residence	Addre	ess of the Applicant	
	2.			House No.	Panimalar engineering college	
			,	Street	Banglore trunk road, poonmallee	
	VINMATHI M S	INDIAN	INDIA	City	Chennai	
			8	State	Tamil nadu	
				Country	India	
				Pin code	600123	
	Name in Full	Nationality	Country of Residence	Addre	ess of the Applicant	
_				House No.	Panimalar engineering college	
orm	V. SATHIYA	INDIAN	INDIA	Street	Banglore trunk road, poonmallee	
Ĩ,				City	Chennai	
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140	Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant	
/20%				House No.	Panimalar engineering college	
1280	MAHESWARI M	ŀ		Street	Banglore trunk road, poonmallee	
Ì		INDIAN	INDIA	City	Chennai	
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		3			Pin code	600123
	Name in Full	Nationality Country of Residence		107800; <b>W</b> F ACUP	Ac	ldress of the Applicant
		- 10 Km	1		House No	D. Loyola college
					Street	Sterling road,nugambakam
		t∔ <sub>le</sub>	20		City	chennai
	M. REGINA	INDIAN	I	NDIA	State	tamilnadu
					Country	India
	ĺ		A H		Pin code	600034
	5. TITLE OF THE INVENT	ON: SMART W	EAR	BLE T		TURE MONITORING
	5. THE OF THE HAVEIN	DEVICE WIT	H SO	CIAL D	ISTANCE	FEATURE BASED ON IOT
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	7. ADDRESS FOR SERVICE	OF APPLICANT I	N	Nar	ne	DR. M. S. JOSEPHINE
	INDIA		1132		tal Address	H3-T3 VGN Minerva, nolumbur,273, Gurusamy road,Chennai-600095
				Tele	ephone No.	
					bile No.	9840636843
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orm				E-n	nail ID	Josejbr.07@gmail.com
			* 8	Nar	ne	Dr. V. Jeyabalaraja
3246/F				Pos	tal Address	H3-T3 VGN Minerva, nolumbur,273, Gurusamy road,Chennai-600095
)2(				Tel	ephone No.	7200064865
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<u>'</u> /0		**		Na	me	Dr. S. KEVIN ANDREWS
28				Pos	stal Address	C1-24, Jaibharath apartments, 6 <sup>t</sup>
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Fax No.	
es introductionages til som ages og	
E-mail ID	stevekevins89@gmail.com
Name	Ms. NITHYA. V
Postal Address	No.378/17 R.K.Flats
	19th Main Road
	Anna Nagar West,
	Chennai-600 040
	09841166536
SAN SANAH BE SEASON STREET	
E-mail ID	Nithyaarunkumar66@gmail.co
	m
	M. ANITA PRISCILLA MARY
Postal Address	Newno:69, old:88, maharani
	flats, ground floor,
	Othavadai street,
	Kodambakkam,
	chennai-600024
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	Anitapriscilla80@gmail.com
	VINMATHI M S
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Postal Address	120,bajanai kovil street,
	Chennai-600094
Telephone No.	The state of the s
	9444392085
Fax No.	
E-mail ID	vinmathis@gmail.com
Name	V.SATHIYA
Postal Address	6, c.r. Ramakrishna puram,
	kasthuri flats, mugulivakkam,
	Chennai-600125
Telephone No.	044-29500140
Mobile No.	9488448417
Fax No.	1000 C 10
E-mail ID	Sathiyaviji73@gmail.com
Name	MAHESWARI M
	Postal Address  Telephone No. Mobile No. Fax No. E-mail ID  Name  Postal Address  Telephone No. Mobile No. Fax No. E-mail ID  Name Postal Address  Telephone No. Mobile No. Fax No. E-mail ID  Name Postal Address  Telephone No. Mobile No. Fax No. E-mail ID  Name Postal Address

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				l l		Venkateshwara nagar,
				55463		maduravoyal,
						chennai-600095
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					1obile No.	9962099160
				F	ax No.	m.mahe05@gmail.com
			x acres - etc. 10040-94700	_ E	-mail ID	Maheswari M
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				T	elephone No.	ic some in
				N	Aobile No.	8939676829
				F	ax No.	3 Mar / 10 K 1 1 T
				F	-mail ID	reginamathew@loyolacollege
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SOUNTRY Country 9. IN C/ APPLIC	Application Number	S OF CONVER Filing date ATIONAL PHA JNDER PATER	NTION APP Name of Applicant SE APPLICA	RITY OI LIGATION, THE	Title of the invention	du IPC (as classified in the convention country)  S OF INTERNATIONAL  T)
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9. IN CAAPPLICA	Application Number  ASE OF PCT NATION FILED I	S OF CONVEY Filing date  ATIONAL PHA JNDER PATER STION NUMBER HONAL APPLI	Name of Applicant  SE APPLICANT CO-OPE	RITY OI LICATION, ATION, RATION	F APPLICATION Title of the invention PARTICULAR TREATY (PC	IPC (as classified in the convention country)  S OF INTERNATIONAL  T)
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# (i) Declaration by the inventors

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

We, the above-named inventors are the true & first inventors for this Invention and declare that the applicants herein are our assignee or legal.

(a) Date: 23.12.2020

(b) Signature:

(c) Name: Dr. M.S. JOSEPHINE

(a) Date: 23.12.2020

(b) Signature:

(c) Name: Dr. V. JEYABALARAJA

(a) Date: 23.12.2020

(b) Signature:

(c) Name: Dr. S. KEVIN ANDREWS

(a) Date: 23.12.2020

(b) Signature:

(c) Name: Ms. NITHYA. V

(a) Date: 23.12.2020

(b) Signature: M Anta Saula Min

(c) Name: M.ANITHA MARY PRISCILLA

(a) Date: 23.12.2020

(b) Signature:

(c) Name: VINMATHI M S

(a) Date: 23.12.2020

(b) Signature:

(c) Name: SATHIYA.V

(a) Date: 23.12.2020

(b) Signature:

(c) Name: MAHESWARI

Messa o stall

(a) Date: 23.12.2020

(b) Signature:

(c) Name: M. REGINA

(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
- (b) Signature(s)
- (c) Name(s) of the signatory

	(iii) Declaration by the	ne applicants								
	We the applicants hereby declares that: -									
	We are in p	ossession of the above-mentione	ed invention.							
	☐ The provis	onal/complete specification rela	ating to the invention	is filled with this						
	application	application - NA								
	☐ The inventi	on as disclosed in the specification	on uses the biological n	naterial from India						
	and the ne	cessary permission from the con	npetent authority shall	l be submitted by						
	us before t	ne grant of patent to us.								
	☐ There is no	lawful ground of objection(s) to	the grant of the Patent	to us - NA						
	☐ We are the	true &first inventors.								
	☐ We are the	assignee or legal representative	of true & first inventor	S						
	t and the second	ation or each of the applica-								
		-8, was the first application in co								
	our inventi									
	☐ We claim 1	he priority from the above-mer	itioned application(s) f	filed in convention						
		untries and state that no appli-								
	invention h	nad been made in a convention of	ountry before that dat	te by us or by any						
	person from	m which We derive the title.								
	☐ Our applie	cation in India is based on	international applicat	ion under Patent						
	Cooperation	ion Treaty (PCT) as mentioned inParagraph-9 - NA								
	☐ The applic	cation is divided out of Our application particulars of which is given in								
	Paragraph-	10 and pray that this application	may be treated as dee	med to have been						
	filed on DD	/MM/YYYY under section 16 of the	he Act.							
	☐ The said in	vention is an improvement in or	modification of the in	vention particulars						
	of which a	re given inParagraph-11 – NA								
/Form 1				994_19						
ñ	13. FOLLOWING ARE T	HE ATTACHMENTS WITH THE AF	PLICATION	01 <del>0.</del> ⊞0						
	(a) Form 2		2000 50 50 5							
25.	Item	Details	Fee	Remarks						
)5(	Complete/ provisional	No. of pages								
Ξ	specification)#	One								
707	No. of Claim(s)	No. of claims Eight and								
20		No. of pages – Two	980 C	AMERIC W.						
0/2	Abstract	No. of pages – One								
28	No. of Drawing(s)	No. of drawings and .	1000	9,550,530 %						
E		No. of pages – Seven and Five	A 1004 - 6701 - 20052777 - 20-							
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2 PATE	ENT OFFICE (	HENNAI 28/12/2	1020 12 42							
		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 underrule13(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(2copies).
- (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 (2copies).
- (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 Form3
- (h) Declaration of Inventorship on Form5

(i)

Power

of

Authority

(j).....

Total fee ₹ 4,500.00 in Demand Draft No. 211944 Dt 21.12.2020 Drawn on Axis Bank, Nanganallur Branch.

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

Dated this Thursday of 23<sup>nd</sup> December 2020

MA

Signature:

Name: Dr. M. S. JOSEPHINE

Signature:



Name: Dr. V. JEYABALARAJA

Celly 1

Signature:

Name: Dr. S. KEVIN ANDREWS

Signature:

Name: Ms. NITHYA. V

Signature: M. Antiphinilla Many

Name: M. ANITHA MARY PRISCILLA

Signature:

Name: VINMATHI M S

Signature:

Name: SATHIYA.V

Signature:

J. P.

Name: MAHESWARI

Signature:

Name: M. REGINA

- To,
  The Controller of Patents
  The Patent Office, at Guindy, Chennai 600 032.

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

  1

  1

  1 \* To be signed by the applicant(s) or by authorized registered patent agent otherwise where
  - \* Tick (
    //cross (x) whichever is applicable/not applicable in declaration inparagraph-12.
  - \* Name of the inventor and applicant should be given in full, family name in the beginning.

"FORM 1				(FOR O	FFICE USE ONLY)
THE PATENT	S ACT 1970 (39	of 1970) and			
	S RULES, 2003				
	•	NE DATENIT			
	N FOR GRANT C				
(See section	7, 54 and 135 a	ind sub-rule (	1) of rule 20)		
			Application	n No.	
			Filing date	:	
			Amount c	of	
			Fee paid:		
			CBR No:		
			Signature:		
4 4551.64		- /	Jighatare.		
	NT'S REFERENCE	-			
IDENTIFICA	TION NO. (AS A	LLOTTED BY			
OFFICE)					
2. TYPE OF	APPLICATION [P	Please tick (✓	) at the appro	opriate cate	gory]
Ordinary (✓)		Convention	()	PCT-NP ()	
Divisional	Patent of	Divisional	Patent of	Divisional	Patent of Addition ( )
()	Addition ( )	()	Addition ()	()	Tatent of Addition ()
3A. APPLIC		( )	7.00111011 ( )	( )	
Name in		Nationali	Country	Address of	the Applicant
	<b></b>	ty	of	7.100.1000	the Applicant
Dr.S.Radha R	ammohan	,		House No.	Dr.M.G.R Educational and
DI.O.Nadila IN	ammonan	Indian	India	Trouse Ivo.	Research Institute.
				Street	Periyar E.V.R. High Road,
					Maduravoyal
				City	Chennai
				State	Tamilnadu
				Country	India
				Pin code	600095
Dr. K.Umapathy	/	Indian	India	House No.	SCSVMV Sri Jayendra Saraswathi Street,
		maran	maia	Street	Enathur
				City	Kanchipuram
				State	Tamilnadu
				Country	India
				Pin code	631561
Dr.Viji Vinod				House No.	Dr.M.G.R Educational and
		Indian	India		Research Institute.
				Street	Periyar E.V.R. High Road,
				City	Chennai
				State	Tamilnadu
				Country	India
D D .:				Pin code	600095
R.Deepika		T., 1"	т., 41.,	House No.	SRI SAIRAM ENGINEERING
1		Indian	India		COLLEGE,

			St	reet	Sai Lec	Nagar,West
				ity	Chennai	
				ate	Tamilna	du
			-	ountry	India	
				n code	600044	
M.Bhuvaneswari				ouse No.		.R Educational and
VI. Briavario Viari	Indian	Indi		0450110.		ch Institute.
				reet		E.V.R. High Road,
			Ci	ity	Chennai	
				ate	Tamilna	<del></del>
				ountry	India	
				n code	600095	
N. Jayashri				ouse No.		.R Educational and
t. dayaciiii	Indian	Indi				ch Institute.
			<u> </u>	reet		E.V.R. High Road,
			Ci		Chennai	
			-	-	Tamilna	
			<u> </u>	ate	India	.iu
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				n code	600095	
N.Keerthana	Indian	Indian India		ouse No.	Resear	.R Educational and ch Institute.
						E.V.R. High Road, voyal
				ity	Chennai	
				ate	Tamilna	du
				Country		
				n code	600095	
				Pin code		R Educational and
3B. CATEGORY OF APPLICANT [Ple	ase tick ( 🗸 ) at th	ne anni	ronriate category	.1	Resear	ch Institute.
				J		
Natural Person ( )	Small En		ural Person Sta	artup ()		
4. INVENTOR(S) [Please tick (✓) a	t the appropriat	e categ	gory]	11 tup ()	1	
Are all the inventor(s)	Yes (✔)			No ()		
same as the applicant(s	)					
named above?						
If "No", furnish the details	of the inven	itor(s	)	1		
Name in Full	Nationalit	У	Country of	Add	lress of t	he Inventor
			Residence			I

5. TITL	E OF THE INVE	NTION				I.		
		Realtin	ne Data B	ased Hi	tecl	h Classro	oom	
6. AUT	HORISED REG	ISTERED PA	ATENT		N/P	A No.		
AGEN	Γ(S)				lame			
						le No.		
	RESS FOR SE	RVICE OF A	APPLICANT		lame			
	OHA RAMM	OHAN				l Address		
Professor	JHA KANINI	OHAN			•	hone No.		
	nt of Compute	r Applicati	ons	N	/lobi	le No.	+91 94	444478624
	Educational	and Resear	ch Institute	F	ax N	0.		
Chennai, 1	India.			E	-mai	il ID	umap	athykannan@gmail.con
	RY, PARTICUL	ARS OF CO	NVENTION A		ION		ION F	ILED IN CONVENTION
Country	Application	Filing date	e Name o	of the	e Title of the invention		IPC (	as classified in the
	Number		applica	nt			convention country)	
	CASE OF PC ATION FILED (					•	ULARS	OF INTERNATIONA
Intern	ational applica	ation numb	oer	Inter	nati	onal filing	date	
	CASE OF D			ON FILE	) UI	NDER SEC	TION	16, PARTICULARS C
Origin	al (first) applic	cation No.		Date	of fi	iling of orig	ginal (fi	rst) application
	CASE OF PAT ATION OR PAT		DDITION FI	LED UND	ER :	SECTION !	54, PAI	RTICULARS OF MAII
Main	application/pa	atent No.		Date	of fi	ling of mai	n appli	cation
12. DE	CLARATIONS							

## (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
- (b) Signature(s)
- (c) Name(s)

### (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
- (b) Signature(s)
- (c) Name(s) of the signatory

(iii) Declarat	tion by the applicant(s)							
I/We the ap	plicant(s) hereby declare(s) th	nat: -						
$\square$ I am/ We are in possession of the above-mentioned invention.								
□ Th	e provisional/complete spec	ification relating to the	e invention is filed with this					
ар	plication.							
$\ \square$ The invention as disclosed in the specification uses the biological material from								
and the necessary permission from the competent authority shall be submitted								
m	e/us before the grant of pater	nt to me/us.						
□ Th	ere is no lawful ground of obj	jection(s) to the grant of	the Patent to me/us.					
□ la	m/we are the true & first inve	entor(s).						
□ la	m/we are the assignee or lega	al representative of true	& first inventor(s).					
□ Th	e application or each of tl	he applications, particu	ulars of which are given in					
Pa	ragraph-8, was the first appli	ication in convention co	untry/countries in respect of					
m	y/our invention(s).							
□ I/\	We claim the priority from the	e above mentioned app	lication(s) filed in convention					
со	untry/countries and state th	countries and state that no application for protection in respect of the						
in	vention had been made in a	n had been made in a convention country before that date by me/us or by						
ar	y person from which I/We de	rive the title.						
□ <b>M</b>	y/our application in India is	s based on internation	al application under Patent					
Co	operation Treaty (PCT) as me	ntioned in Paragraph-9.						
□ Th	e application is divided out o	of my /our application p	articulars of which is given in					
			ated as deemed to have been					
file	ed on DD/MM/YYYY under see	ction 16 of the Act.						
	e said invention is an improve	ement in or modification	n of the invention particulars					
of	which are given in Paragraph	-11.						
	IG ARE THE ATTACHMENTS W	VITH THE APPLICATION						
(a) Form 2		T						
Item	Details	Fee	Remarks					
Complete/	No. of pages- 7							
<del>provisional</del>								
specification)#								
No. of Claim(s)	No. of claims- <b>5</b> and							
	No. of pages – 1							
Abstract	No. of pages- 1							
No. of Drawing(	_							
	and No. of pages -1							

- # 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
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- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventorship on Form 5
- (i) Power of Authority

1	i'	)
ı	L	1

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......day of......20.....

- 1. Dr.S.Radha Rammohan
- 2. Dr. K.Umapathy
- 3. Dr. Viji Vinod
- 4. R.Deepika
- 5. M.Bhuvaneswari
- 6. N. Jayashri
- 7. N.Keerthana

To,

The Controller of Patents

The Patent Office, at..... 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  $(\checkmark)$ /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

THE PATENTS ACT 1970 (39 of 1970) and



	'S RULES, 2003						
APPLICATIO	N FOR GRANT C	F PATENT				700293013	
(See section	7, 54 and 135 a	ind sub-rule (1	) of rule 20)				
	<del></del>		Application	No.	202	14/001523	
	· · · · · · · · · · · · · · · · · · ·	<del> </del>	Filing date:		12	3/01/2021	
-			Amount of paid:	Fee		1750/-	
			CBR No:			1407	
	<del></del>		Signature:	,		(h/2)	
	NT'S REFERENCI ITION NO. (AS A	-				13	
2. TYPE OF	APPLICATION [	Please tick (✓)	at the approp	oriate	category	<b>/</b> ]	
Ordinary (✓	)	Convention	()	PCT-NP ( )			
Divisional ()	Patent of Addition (<	Divisional ()	Patent of Addition ( )	Div	isional	Patent of Addition ( )	
3A. APPLIC	ANT(S)	<del></del>	<u> </u>				
Name in	Full	Nationality	Country of Residence	Add	dress of t	the Applicant	
				Hou	se No.	Dr. M.G.R Educational and research institute	
V CAR	MODETHA.	INIDIANI	INIDIA	Stre	et	Madhuravoyal	
V. SAI	SANGEETHA INDIAN		INDIA	City		Chennai	
				Stat	e	Tamil Nadu	
				Cou	ntry	India	
				Pin	code	600 095	
Name in	Full	Nationality	Country of		Addr	ess of the Applicant	
ļ		<del> </del>	Residence	<del>   </del>		D. M.C.D. Educational	
			İ	Hou	ise No.	Dr. M.G.R Educational and research institute	
}				Stre	et	Madhuravoyal	
	4 D 117 4	יא א וכוואו	INDIA	City		Chennai	
N. S	ARIKA	INDIAN	AIUNI	Stat	:e	Tamil Nadu	
				Cou	intry	India	

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Ì	Name in Full	Nationality	Country of	Addre	ess of the Applicant
			Residence	<del>                                     </del>	
				House No.	Dr. M.G.R Educational and research institute
}				Street	Madhuravoyal
)	V.VAIDEHI	INDIAN	INDIA	City	Chennai
				State	Tamil Nadu
1				Country	India
		}		Pin code	600 095
	Name in Full	Nationality	Country of	<del></del>	ess of the Applicant
	rame meran	, reaction direy	Residence	1	cos or the rippiledite
ŀ		+	The State Tree	House No.	Dr. M.G.R Educational
		•		Tiouse No.	and research institute
l				Street	Madhuravoyal
	G.S. NISHANTHI	INDIAN	INDIA	City	Chennai
				State	Tamil Nadu
		1		Country	India
			}	Pin code	600 095
	Name in Full	Nationality	Country of	Addr	ess of the Applicant
Ì			Residence		
		<b></b>		House No.	Dr. M.G.R Educationa
۱			}		and research institute
K. ANNALAKSHMI	INDIAN	INDIA	Street	Madhuravoyal '	
		INDIA	City	Chennai	
				State	Tamil Nadu
		}	Country	India	
				Pin code	600 095
١	Name in Full	Nationality	Country of	Addr	ess of the Applicant
l			Residence		
I		ĺ		House No.	Dr. M.G.R Educationa
		-	Country of Residence  INDIA  Country of Residence	Church	and research institute
	R PADMAPRIVA	INDIAN		Street	Madhuravoyal
ĺ	K. I ADMAI KITA			City	Chemiai
		1		State	Tamil Nadu
				Country	ingia COO OOS
		<del> </del>		Pin code	600 095
	Name in Full	Nationality	Country of	Addr	ess of the Applicant
i		1	Residence		•

				House No.	Dr. M.G.R Educationa and research institute
!		;		Street	Madhuravoyal
DR.	S. KEVIN ANDREWS	INDIAN	INDIA	City	Chennai
				State	Tamil Nadu
				Country	India
				Pin code	600 095
B. C	ATEGORY OF APPLICANT	(Please tick (	√) at the app	ropriate categ	ory]
	Vatural Person ( )	Other th	an Natural Per	son	
		Small En	tity()	Startu	Others ( )
				p(	
				)	
4.	INVENTOR(S) [Please tic	k (√) at the a	ppropriate ca	tegory]	
Are	e all the inventor(s)	Yes (✓)	<del> </del>	No ( )	<del></del>
sar	ne as the applicant(s)	<u> </u>	<del></del>		
	med above?				
	"No", furnish the details	of the invent	or(s)		<del></del>
ļ	Name in Full	Nationality	Country of	Addre	ess of the Applicant
	Nome in Fair	Mationality	Residence	, tour	-55 of the Applicant
	<del></del>	·		House No.	Dr. M.G.R Educations
			<u> </u>		and research institute
	M. CANCEPTILA	DIDIAN	DIDIA	Street	Madhuravoyal
	V. SANGEETHA	INDIAN	INDIA	City	Chennai
			ļ	State	Tamil Nadu
			į	Country	India
				Pin code	600 095
ļ	Name in Full	Nationality	Country of	Addr	ess of the Applicant
<u>.                                    </u>			Residence		<del></del>
			}	House No.	Dr. M.G.R Educations
				Street	and research institute Madhuravoyal
		}	1	City	Chennai
	N. SARIKA	INDIAN	INDIA	State	Tamil Nadu
				Country	India
				Pin code	600 095
	Name in Full	Nationality	Country of	<del></del>	<u></u>
	ואמוווכ ווו דעוו	Nationality	Residence	Addr	ess of the Applicant
4		<u></u>	residence		

				House No.	Dr. M.G.R Educational and research institute
				Street	Madhuravoyal
	V.VAIDEHI	INDIAN	INDIA	City	Chennai
				State	Tamil Nadu
				Country	India
				Pin code	600 095
\—-	Name in Full	Nationality	Country of		ess of the Applicant
		,	Residence		
<u> </u>				House No.	Dr. M.G.R Educational
					and research institute Madhuravoyal
	G.S. NISHANTHI	INDIAN	INDIA	Street	Chennai
	0.0.7410111444111			City	
			· ·	State	Tamil Nadu
		1		Country	India
				Pin code	600 095
	Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
			INDIA	House No.	Dr. M.G.R Educationa and research institute
	•			Street	Madhuravoyal
	K. ANNALAKSHMI	INDIAN		City	Chennai
	,			State	Tamil Nadu
			} .	Country	India
]			]	Pin code	600 095
}_	Name in Full	Nationality	Country of	Addre	ess of the Applicant
			Residence	,	1,
PATEN	·····			House No.	Dr. M.G.R Educationa
			ļ	Church	and research institute
- [	R. PADMAPRIYA	INDIAN	INDIA	Street	Madhuravoyal Chennai
	K. I ADMAI KI I A			City	_ <del></del>
				State	Tamil Nadu
		İ		Country	India
<u> </u>	<del></del>	<del></del> -	<del> </del>	Pin code	600 095
	Name in Full	Nationality	Country of Residence	Addre	ess of the Applicant
-		<del>- </del>	Nesidelice	Hausa Na	Dr. M.G.R Educationa
				House No.	and research institute
			]	Street	Madhuravoyal
	<del></del>	<del>. L</del>	4		1

DR.S. KEVIN ANDREWS   INDIAN	INDIA	City	Chennai
		State	Tamil Nadu
		Country	India
		Pin code	600 095
5. TITLE OF THE INVENTION: EMB	DDED SENS	OR WIT	H MATLAB BASED
1			STEM FOR FILE
COMN	UNICATION	<b>I</b>	·
6. AUTHORISED REGISTERED PATENT	IN/P/	<del>\ No.</del>	
AGENT(S)	Name		
	Mahi	 i <del>le No.</del>	
7. ADDRESS FOR SERVICE OF APPLICANT			V. SANGEETHA
INDIA	<del></del>		No: 3, f3, Seetharaman Homes, Mani Street Extension, Chennai-600 063
	Telep	ohone No.	
	Mobi	ile No.	9791772737
	Fax N	No.	
	E-ma	il ID	sangeetha.mca@drmgdu.ac.i
	Nam	e	SARIKA. N
	Posta	al Address	28/67, Madhurai Swamy Madam 2 <sup>nd</sup> street, Perambur, Chennai-600 011
	Teler	phone No.	i cramour, chemiar-oco orr
	<u>-</u>	ile No.	9094407221
	Fax N	No.	
	E-ma	ail ID	sarika.mca@drmgrdu.ac.in
	Nam	e	V.VAIDEHI
NT OFFICE CHENNAI	Posta	al Address	43/113 1 st floor, JSK Diabetic Clinic, Arya Gowda Road, West Mambalam. Chennai-600 033
	Tele	phone No.	
	Mob	ile No.	9789267999
	Fax N	Vo.	
	E-ma	ail ID	Vaidehi.mca@drmgrdu.ac.in
	Nam	ie	G.S. NISHANTHI
	Post	al Address	No.155/1, Golden Jubilee Flats, South Park Road,

						Thirumangalam, Anna Nagar West (Extn), Chennai-600 040.
			1	Te	lephone No.	
			Ĺ	M	obile No.	9094926925
				Fa	x No.	
				E-	mail ID	nishanthi.mca@drmgrdu.ac.i n
				N	ame	K. ANNALAKSHMI
		٠.		Po	ostal Address	B2 Fth4,4 <sup>th</sup> floor, VGN Imperia Phase-3, VGN Mahalakshmi Nagar, Perumalnagaram, Velappanchavadi, Chennai- 600 077
				Te	elephone No.	
				M	lobile No.	8760315547
				Fa	x No.	
				Ε-	mail ID	annalakshmi.mca@drmgrdu.a
			Ì	N	ame	R. PADMAPRIYA
				Po	ostal Address	No.175,5th block,1st floor
				Te	elephone No.	Kamrajar street, Mogappair West,
			}		lobile No.	Chennai-600 037 9094407221
		•			ex No.	
						Padupriya 1983@gmail.com
				N	ame	Dr. S. KEVIN ANDREWS
				P	elephone No. fobile No. fobile No. fobile No. formail ID formail I	C1-24, Jaibharath apartments,6 <sup>th</sup> Main Road, Mogappair Erischeme, Chennai-600 037
				, <b>T</b>	elephone No.	9488007744
				N	1obile No.	9488007744
			į	F	ax No.	
				E	-mail ID	stevekevins89@gmail.com
S IN C	<del>\SE OF APPLIC</del> <del>'RY, PARTICUL</del>	:ATION-CLAIN ARS OF CON\	IING PRIORI ÆNTION AP	<del>PLICA</del>	APPLICATION	FILED IN CONVENTION
COUNT		Filing data	Name of th	<del></del>	Title of the	IPC (as classified in the
COUNT	Application	Thurb date				

9. IN C/	ASE OF PCT NA	ATIONAL PHA	SE APPLI	CATION,	PARTICULARS	OF INTERNATIONAL	
APPLIC	ATION FILED I	JNDER PATE	<del>VT CO-OF</del>	ERATION	V TREATY (PCT)	•	
Intern	ational-applic	ation number	<u> </u>	Inter	national filing o	late	<u> </u>
		<del></del>		<del></del> -	<del></del>		
10. IN-	CASE OF DIVIS	IONAL APPLI	CATION	ILED UN	DER-SECTION 1	6, PARTICULARS OF	
ORIGIN	IAL (FIRST) AP	PLICATION		_			
Origin	al (first) applic	ation No.		Date	of filing of orig	inal (first) application	
11. IN	CASE OF PATE	NT OF ADDIT	ON FILE	UNDER	SECTION 54, P.	ARTICULARS OFMAIN	
APPLIC	ATION OR PA	TENT		_			
Main	application/pa	stent No.		Date	of filing of mai	n application	
12. DF	CLARATIONS	<del></del>					

# (i) Declaration by the inventors

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

We, the above-named inventors are the true & first inventors for this Invention and declare that the applicant(s) herein are our assignee or legal representative.

(a) Date: 12.01.2021

V. Sangeethe

Carrie D

(b) Signature:

(c) Name: V. SANGEETHA

(a) Date: 12.01.2021

(b) Signature: 1

(c) Name: Ms. N. SARIKA

(a) Date: 12.01.2021

(b) Signature: 🔀

(c) Name: V. VAIDEHI

(a) Date: 12.01.2021



(b) Signature:

(c) Name: G.S. NISHANTHI

(a) Date: 12.01.2021

(b) Signature:



(c) Name: K. ANNALAKSHMI

(a) Date: 12.01.2021

(b) Signature:



(c) Name: R. PADMAPRIYA

(a) Date: 12.01.2021



(b) Signature:

(c) Name: Dr. S. KEVIN ANDREWS

(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
- (b) Signature(s)
- (c) Name(s) of the signatory

(iii) Decla	ration by the						
We the a	• •	y declares that: -					
We are in possession of the above-mentioned invention.							
	The provision	al/complete specification i	elating to th	e invention is filed with this			
	application - N						
				biological material from India			
			competent au	thority shall be submitted by			
		grant of patent to us.					
	There is no la	wful ground of objection(s)	to the grant o	f the Patent to us - NA			
	We are the tr	ue &first inventors.					
	We are the as	signee or legal representati	ve of true & fi	rst inventors			
ם	The applicati	on or each of the appl	ications, part	iculars of which are given			
	inParagraph-8,	was the first application in	convention co	ountry/countries in respect of			
	our invention	s - NA					
	We claim the	priority from the above-	mentioned ap	plications filed in convention			
country/countries and state that no application for protection in respe							
		been made in a convention country before that date by us or by any					
	-	which We derive the title.					
	• •	•		al application under Patent			
	·	Treaty (PCT) as mentioned in					
				articulars of which is given in			
		• • •	•	ated as deemed to have been			
		1M/YYYY under section 16 o					
		•	or modificati	on of the invention particulars			
	of which are	given inParagraph-11 – NA					
40 50110			40011017101	<del></del>			
Į.		ATTACHMENTS WITH THE	APPLICATION				
(a) Form 2	· · · · · · · · · · · · · · · · · · ·	Deteile		Do			
Item		Details	Fee	Remarks			
Complete/		No. of pages One					
specification	n)#	One					
No. of Clain	n(s)	No. of claims and Five	<del> </del>				
		No. of pages – One					
Abstract		No. of pages – One					
No. of Draw	ving(s)	No. of drawings and					
		No. of pages – Five and	}	,			
1		Four	{				

- # 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 underrule13(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 (2copies).
- (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 (2copies).
- (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 Form3
- (h) Declaration of Inventorship on Form5

i) Po	wer
-------	-----

of

Authority

(j)......

Total fee ₹ 4,500.00 in Demand Draft No. 212023 Date 12.01.2021 Drawn on Axis Bank, Nanganallur Branch.

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

Dated this Monday of 12th January 2021

V. Sangeetha

Signature:

Name: V. SANGEETHA

Signature:

Name: Ms. N. SARIKA

Signature:

Name: V. VAIDEHI

1

Signature: I

Name: G.S. NISHANTHI

Signature:

Name: K. ANNALAKSHMI

Signature:



Name: R. PADMAPRIYA

Signature:



Name: Dr. S. KEVIN ANDREWS

To,

The Controller of Patents

The Patent Office, at Guindy, Chennai - 600 032.

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 inparagraph-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";

THE SHAPE SHAPE

Controller General of Patents, Designs & Trade Marks

G.A.R.I>
[Sec Rule 22(1)]
RECEIPT



Docket No 102274

Date/Time 20t9/i2/03 22:46:59

Userld: getbsk

SHRI. SENTHIL KUMAR .B.

New No.35, Old No.16, Ramanuja Nagar, Konnur High **Road,** Ayanavaram Chennai 600023

#### CBR Detail:

1	201941049817	<b>TEMP/E</b> - IJ52fi68/2019- CH E	n000	398Hi	FORM i	MATERIALS AND METHO croeorx'virn coscnei		
	T_0000587258	Online Bank 7	Deansfer		0	3121900079fi I	ø000 00	147500102000000I

Total Amount : ₹ 8000

Amount in Words: Rupees Eight Thousand Only

Received from SHRI. SENTHIL KUMAR .B. the sum of  $\P$  8000 on account of Payment of fee for above mentioned Application/Forms.

Home

<sup>&</sup>quot; This is a computer generated receipt, hecnce no signature required.

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.M.G.R Educational and Research Institute, 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 "MATERIALS AND METHODS FOR PRODUCTION OF GEOPOLYMER CONCRETE PRECAST MANHOLE COVERS" are 1. M SURESH, DR. M.G.R. Educational & Research Institute, Maduravoyal, Chennai 95, Tamilnadu, India and 2. Dr. S ARIVALAGAN, HOD, Civil Department, DR. M.G.R. Educational & Research Institute, Maduravoil, Chennai 95, Tamilnadu, India

Dated this the 03rd day of December 2019.

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

The Controller of Patents The Patent Office at Chennai Controller General of Patents, Designs & Trade

Marks

GAR6 Sec Rule 22(1) RECEIPT

Docket No 102281 Date/Time 2019/12/04 07:14:39

Userid: getbsk

SHRI, SENTHIL KUMAR .B.

New No.35, Old No.16, Ramanuja Nagar, Konnur High Road, Ayanavaram Chennai 600023

#### CBR Detail:



8000 Total Amount :

Amount in Words: Rupees Eight Thousand Only

Received from SHRI. SENTHIL KUMAR .B. the sum of 8000 on account of Payment of fee for above mentioned Application/Forms.

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<sup>\*</sup> This is a computer generated receipt, hecnce no signature required.

FORM 5
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENT RULES, 2003

THE PATENT RULES, 2003

Declaration as to inventorship

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

We, **Dr.M.G.R** Educational and Research Institute, 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 "PARTIAL REPLACEMENT OF FINE AGGREGATE BY CONSTRUCTION & DEMOLITION WASTE AND PLASTIC WASTE" are 1. S. MARIVEL MURUGAN, DR. M.G.R. Educational & Research Institute, Maduravoyal, Chennai 600095, Tamilnadu, India and 2. **Dr. S ARIVALAGAN**, HOD, CIVIL DEPARTMENT, DR. M.G.R. Educational & Research Institute, Maduravoil, Chennai 600095, Tamilnadu, India.

Dated this the 03rd day of December 2019.

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

To
The Controller of Patents
The Patent Office at Chennai

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"FORM 1		·	(F	OR O?			
THE PATENTS ACT 1970 (39 of 1970) and			700295139				
THE PATENTS RULES, 2003				· ·			
APPLICATIO	N FOR GRANT C	OF PATENT					
(See section	7, 54 and 135 a	ind sub-rule (1	<del> </del>			<del></del>	
		Application	Application No.		202041056244		
		Filing date	Filing date:		24/12/2020		
		Amount of	Fee				
		paid:	paid:		1201-		
СВ		CBR No:	- (		+3677 /2		
Signature		Signature:					
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					27/3		
2. TYPE OF	APPLICATION [F	Please tick (✓)	at the approp	priate	category]		
Ordinary (✓) Convention		()	PCT	PCT-NP()			
Divisional	Patent of	Divisional	Patent of	Divi	sional	Patent of Addition ( )	
()	Addition (✓)	()	Addition ( )	()			
3A. APPLIC	ANT(S)					<del></del>	
1 ' 1		Country of	Add	lress of th	ne Applicant		
		Residence					
Dr. S. KEVIN ANDREWS IN				Hou	se No.	Dr. M.G.R Educational and research institute	
				Stre	et	Madhuravoyal	
		INDIAN	INDIA	City		chennai	
				State	<u></u> е	Tamilnadu	
				Cou	ntry	India	
				Pin o	ode	600095	
1		Nationality	Country of	ountry of Add		ress of the Applicant	
		Residence					
				Hou	se No.	Francis Xavier	
Dr. K. LAKSHMI NARAYANAN INDIAN					Engineering College		
				Street		103/G2, By pass Road, Vannarpet,	
		INDIAN	INDIA	City		Tirunelveli	
				State	 e	Tamilnadu	

			Country	India
			Pin code	627003
Name in Full	Nationality	Country of		ess of the Applicant
ivanie in ruii	Ivationality	Residence	Addit	ess of the Applicant
	†		House No.	Dr. M.G.R Educational
			Street	and research institute Madhuravoyal
				chennai
V. SANGEETHA	INDIAN	INDIA	City	Tamilnadu
			State	India
			Country	
	1		Pin code	600095
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
			House No.	Dr. M.G.R Educational
				and research institute
	INDIAN	INDIA	Street	Madhuravoyal
SARIKA. N	INDIAN	INDIA	City	chennai
			State	Tamilnadu
			Country	India
			Pin code	600095
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
	1		House No.	Ananda College
			Street	Post Box No: 3,
		India		Devakottai Ext,
A.VICTOR BENEVENT RA	Indian		City	Devakottai
			State	Tamilnadu
			Country	India
			Pin code	630303
	Nationality	Country of	Addr	ess of the Applicant
Name in Full		Residence		
Name in Full		Residence	House No.	Ananda College
Name in Full		Residence		Ananda College Post Box No: 3,
Name in Full		Residence	House No. Street	
Name in Fulf  Dr. R. PANDI SELVAM	INIDIANI		House No.	Post Box No: 3,
	INDIAN	Residence	House No. Street	Post Box No: 3, Devakottai Ext,
	INDIAN		House No. Street City	Post Box No: 3, Devakottai Ext, Devakottai

RAMAMOORTHY  The in Full  1.S. JOSEPHINE  GORY OF APPLICANT  Brail Person ( )		INDIA  Country of Residence  INDIA	House No.  Street City State Country Pin code Addre House No.  Street City State Country	Dr. M.G.R Educationa and research institute Madhuravoyal chennai Tamilnadu India 600095 ess of the Applicant  Dr. M.G.R Educationa and research institute Madhuravoyal chennai Tamilnadu					
e in Full  1.S. JOSEPHINE  GORY OF APPLICANT	Nationality INDIAN	Country of Residence INDIA	City State Country Pin code Addre House No. Street City State	Madhuravoyal chennai Tamilnadu India 600095 ess of the Applicant  Dr. M.G.R Educationa and research institute Madhuravoyal chennai					
e in Full  1.S. JOSEPHINE  GORY OF APPLICANT	Nationality INDIAN	Country of Residence INDIA	State Country Pin code Addre House No. Street City State	Tamilnadu India 600095 ess of the Applicant  Dr. M.G.R Educationa and research institute Madhuravoyal chennai					
1.S. JOSEPHINE GORY OF APPLICANT	INDIAN	Residence INDIA	Country Pin code Addre House No. Street City State	India 600095 ess of the Applicant  Dr. M.G.R Educationa and research institute Madhuravoyal chennai					
1.S. JOSEPHINE GORY OF APPLICANT	INDIAN	Residence INDIA	Pin code Addre House No. Street City State	600095 ess of the Applicant  Dr. M.G.R Educationa and research institute  Madhuravoyal chennai					
1.S. JOSEPHINE GORY OF APPLICANT	INDIAN	Residence INDIA	Pin code Addre House No. Street City State	Dr. M.G.R Educationa and research institute Madhuravoyal chennai					
1.S. JOSEPHINE GORY OF APPLICANT	INDIAN	Residence INDIA	House No. Street City State	Dr. M.G.R Educationa and research institute Madhuravoyal chennai					
GORY OF APPLICANT	[Please tick	INDIA	Street City State	and research institute Madhuravoyal chennai					
GORY OF APPLICANT	[Please tick		City State	Madhuravoyal chennai					
GORY OF APPLICANT	[Please tick		State	chennai					
GORY OF APPLICANT	[Please tick		State						
			Country	India					
			Pin code	600095					
		√ 1 ¬+ +ha ¬nn	l						
irai Person ( )		3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]							
	Other than Natural Per			01 ()					
	Small En	tity ( )	Startu p ( )	Others ( )					
4. INVENTOR(S) [Please tick (✓) at the appropriate category]									
all the inventor(s)	Yes (✓)		No ( )						
If "No", furnish the details of the inventor(s)									
ne in Full	Nationality	Country of Residence	Addre	ss of the Applicant					
			House No.	Dr. M.G.R Educationa and research institute					
			Street	Madhuravoyal					
CEVIN ANDREWS	INDIAN	INDIA	City	chennai					
			State	Tamilnadu					
			Country	India					
			Pin code	600095					
	as the applicant(s) I above?	as the applicant(s) If above?  ", furnish the details of the inventone in Full  Nationality	as the applicant(s) d above? ", furnish the details of the inventor(s) ne in Full Nationality Country of Residence	as the applicant(s) d above? ", furnish the details of the inventor(s)  ne in Full Nationality Country of Residence House No.  Street City State Country Pin code					

	·	Residence		ess of the Applicant
			House No.	Francis Xavier Engineering College
Dr. K. LAKSHMI · NARAYANAN	I		Street	103/G2, By pass Road, Vannarpet,
NARAYANAN	INDIAN	INDIA	City	Tirunelveli
			State	Tamilnadu
			Country	India
			Pin code	627003
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
			House No.	Dr. M.G.R Educationa and research institute
		INDIA	Street	Madhuravoyal
V. SANGEETHA	INDIAN		City	chennai
	INDIAN	INDIA	State	Tamilnadu
			Country	India
			Pin code	600095
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
			House No.	Dr. M.G.R Educationa and research institute
			Street	Madhuravoyal
SARIKA. N	INDIAN	INDIA	City	chennai
	INDIAN		State	Tamilnadu
			Country	India
			Pin code	600095
Name in Full	Nationality	Country of Residence	Addr	ess of the Applicant
			House No.	Ananda College
			Street	Post Box No: 3, Devakottai Ext,
A.VICTOR BENEVI	ENT Indian	India	City	Devakottai
RAJ			State	Tamilnadu
			Country	India
			Pin code	630303

Name in Full	Nationality	Country of	Add	ress of the Applicant
		Residence		
			House No.	Ananda College
			Street	Post Box No: 3, Devakottai Ext,
Dr. R. PANDI SELVAM	INDIAN	DIDIA	City	Devakottai
	INDIAN	INDIA	State	Tamilnadu
			Country	India
			Pin code	630303
Name in Full	Nationality	Country of	Add	ress of the Applicant
		Residence		
			House No.	Dr. M.G.R Educational and research institute
D. C. DANAMOODTUS		INDIA	Street	Madhuravoyal
Dr. S. RAMAMOORTHY	INDIAN		City	chennai
			State	Tamilnadu
	1		Country	India
			Pin code	600095
Name in Full	Nationality	Country of	Address of the Applicant	
		Residence		
			House No.	Dr. M.G.R Educational and research institute
			Street Madhuravoyal	
Dr. M.S. JOSEPHINE	INDIAN	INDIA	City	chennai
	INDIAN	INDIA	State	Tamilnadu
			Country	India
			Pin code	600095
5. TITLE OF THE INVENTION:	NOISE CA	NCELLA'	TION IN W	INDOW TO PREVEN
HIG	H DECIBE	EL SOUND	S USING M	ACHINE LEARNING
6. AUTHORISED REGISTER	ED-PATENT	IN	/PA-No.	
AGENT(S)		Ne	<del>ime</del>	
		<u> </u>		

6- AUTHORISED REGISTERED PATENT	IN/PA-No.	
AGENT(S)	Name	
	Mobile No.	
7. ADDRESS FOR SERVICE OF APPLICANT IN	Name	Dr. S. KEVIN ANDREWS
INDIA		C1-24,Jaibharath apartments,6 <sup>th</sup> main road,mogappair erischeme,Chennai-600037
	Telephone No.	9488007744
	Mobile No.	9488007744

	Fax No.	
·	E-mail ID	stevekevins89@gmail.com
	Name	Dr. K. LAKSHMI NARAYANAN
	Postal Address	10/7 teachers colony,malligai street,
		Ambasamudrum-627401
	Telephone No.	9840624407
Ī	Mobile No.	9840624407
Ī	Fax No.	
Ī	E-mail ID	kyelyen@gmail.com
	Name	V.SANGEETHA
	Postal Address	No: 3, f3, Seetharaman
		homes,main street
		extension,Chennai-600063
<u> </u>	Telephone No.	
	Mobile No.	9791772737
	Fax No.	
	E-mail ID	sngth.sangeetha@gmail.com
	· Name	SARIKA. N
	Postal Address	28/67, Madhurai swamymadam 2 <sup>nd</sup> street,
	Telephone No.	
	Mobile No.	9094407221
	Fax No.	
	. E-mail ID	sarika.mca@drmgrdu.ac.in
	Name	A.VICTOR BENEVENT RAJ
	Postal Address	No: 121,Nehru bazaar, sivagangai-630561
	Telephone No.	
	Mobile No.	9442542556
	Fax No.	
	E-mail ID	Vbraj2005@gmail.com
	Name	Dr. R. PANDI SELVAM
-		1206/C hasini illam,illayavar nagar,Amaravathipudur, Karaikudi-630301
Ì	Telephone No.	
	Mobile No.	9655697179 & 9942297179
}	Fax No.	
	6	<del>!</del>

				E		pandiselvamraman@gmail.co
				N	ame	Dr. S. RAMAMOORTHY
				P		15,radha street, sri yogeswara nagar, rajakilpakkam,Chennai 600073
	,			Т	elephone No.	<del></del>
				N	lobile No.	9962216866
				F	ax No.	
				E	-mail ID	ramamoorthy.s@drmgrdu.ac.i
				N	ame	Dr. M. S. JOSEPHINE
				P		H3-T3 VGN Minerva, nolumbur,273, Gurusamy road Chennai-600095
				Т	elephone No.	
				N	lobile No.	9840636843
				F	ax No.	
				E	-mail ID	Josejbr.07@gmail.com
OUNTRY	, PARTICULAR	S OF CONVE	ATION VE	PLICATIO	ON	N FILED IN CONVENTION
Country	<del>Application</del>	Filing date	Name-of		Title of the	IPC (as classified in the
	Number		Applican	+	invention	
	Humber		пррисан	<del></del>	mvention	convention country)
			SE APPLIC	ATION,	PARTICULAR	S OF INTERNATIONAL
APPLIC	ASE OF PCT NA	UNDER PATEN	SE APPLIC	ATION,	PARTICULAR	S OF INTERNATIONAL-
Intern  10. IN CORIGIN	ASE OF PCT NATION FILED I ational applic CASE OF DIVIS	UNDER PATEN ation number HONAL APPLICATION	SE APPLIC	ATION, ERATION Inter	PARTICULAR I TREATY (PC national filing	S OF INTERNATIONAL  (1)  (date)  16, PARTICULARS OF
Intern  10. IN CORIGIN	ASE OF PCT NA ATION FILED I ational applic	UNDER PATEN ation number HONAL APPLICATION	SE APPLIC	ATION, ERATION Inter	PARTICULAR I TREATY (PC national filing	S OF INTERNATIONAL T) ; date
10-IN (ORIGIN	ASE OF PCT NATION FILED ATIONAL applicational applications of DIVISIAL (FIRST) APplications of the control of t	UNDER PATEN ation number HONAL APPLICATION Eation No.	SE APPLIC NT CO-OPE	ERATION, Inter	PARTICULAR  I TREATY (PC  national filing  DER SECTION  of filing of or	S OF INTERNATIONAL  (1)  (date)  16, PARTICULARS OF
10. IN CORIGIN Origin 11. IN CAPPLIC	ASE OF PCT NATION FILED IN ational applicational applicational applications of DIVIS IAL (FIRST) APplications of PATE	UNDER PATENT  ation number  SIONAL APPLICATION  Eation No.  NT OF ADDITI	SE APPLIC NT CO-OPE	ERATION, Inter	PARTICULAR I TREATY (PC national filing DER SECTION of filing of or	S OF INTERNATIONAL-  T)  date  16, PARTICULARS OF  iginal (first) application

## (i) Declaration by the inventors

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

We, the above-named inventors are the true & first inventors for this Invention and declare that the applicants herein are our assignee or legal.

(a) Date: 23.12.2020

(b) Signature:



(c) Name: Dr. S. KEVIN ANDREWS

(a) Date: 23.12.2020

(b) Signature:

(c) Name: Dr. K. LAKSHMI NARAYANAN

(a) Date: 23.12.2020

(b) Signature:

(c) Name: V. SANGEETHA

(a) Date: 23.12.2020

(b) Signature:



(c) Name Ms. SARIKA

(a) Date: 23.12.2020



(b) Signature:

(c) Name: A.VICTOR BENEVENT RAJ

(a) Date: 23.12.2020

(b) Signature:



(c) Name: Dr. R. PANDISELVAM

(a) Date: 23.12.2020

(b) Signature:



(c) Name: Dr. S. RAMAMOORTHY

(a) Date: 23.12.2020

M.B. Treplose

(b) Signature:

(c) Name: Dr. M. S. JOSEPHINE

(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
- (b) Signature(s)
- (c) Name(s) of the signatory

(iii) Decla	aration by the	e applicants					
We the a	pplicants her	eby declares that: -					
	We are in po	ossession of the above-mentio	ned invention.				
	The provision	onal/complete specification relating to the invention is filled with this					
	application -	· NA					
	The invention	on as disclosed in the specification uses the biological material from India					
	and the neo	cessary permission from the competent authority shall be submitted by					
	us before th	grant of patent to us.					
	There is no	lawful ground of objection(s) t	o the grant of the	Patent to us - NA			
0	We are the	true &first inventors.					
	We are the	assignee or legal representativ	e of true & first in	ventors			
	The applica	ation or each of the applic	ations, particular	s of which are given			
	inParagraph-	-8, was the first application in convention country/countries in respect of					
	our inventio	on(s) - NA					
	☐ We claim the priority from the above-mentioned application(s) filed in conve						
	country/cou	intries and state that no app	olication for prote	ction in respect of the			
	invention ha	ad been made in a convention	country before th	nat date by us or by any			
	person from	which We derive the title.					
	Our applica	ation in India is based on	international ap	pplication under Patent			
	Cooperation	Treaty (PCT) as mentioned in	Paragraph-9 - NA				
	The applica	tion is divided out of Our ap	oplication particul	ars of which is given in			
	Paragraph-1	.0 and pray that this applicatio	n may be treated a	as deemed to have been			
	filed on DD/	MM/YYYY under section 16 of	the Act.				
	The said inv	ention is an improvement in o	or modification of	the invention particulars			
	of which are	e given in Paragraph-11 – NA					
				,			
13. FOLLO	WING ARE TH	HE ATTACHMENTS WITH THE	APPLICATION	<u>-</u>			
(a) Form 2							
Item		Details	Fee	Remarks			
Complete/ p	rovisional	No. of pages					
specification	n)#	One					
No. of Claim	(s)	No. of claims Five and					
		No. of pages-One					
Abstract		No. of pages-One					
No. of Draw	ing(s)	No. of drawings and					
		No. of pages - Four and Thre	ام				

- # 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 rule13(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 (2copies).
- (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 (2copies).
- (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 Form3
- (h) Declaration of Inventorship on Form5

(i)

**Power** 

Authority

Total fee ₹ 4,500.00 in Demand Draft No. 211945 Dt 21.12.2020 Drawn on Axis Bank, Nanganallur Branch.

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

Dated this Thursday of 23<sup>rd</sup> December 2020

Signature:

Name: Dr. S. KEVIN ANDREWS

Signature:

Name: Dr. K. LAKSHMI NARAYANAN

Signature:

Name: V. SANGEETHA

1

Signature:

Name: Ms. SARIKA

Signature:

Name: A.VICTOR BENEVENT RAJ

Signature:

Name: Dr. R. PANDISELVAM

Signature:

Name: Dr. S. RAMAMOORTHY

Signature:

Name: Dr. M. S. JOSEPHINE

To,

The Controller of Patents

The Patent Office, at Guindy, Chennai – 600 032.

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 inparagraph-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";

PATENT OFFICE

INTELLECTUAL PROPERTY BUILDING

G.S.T. Road, Guindy, Chennai-600032

Tel No. (091)(044) 22502081-84 Fax No. 044 22502066

E-mail: Chennal-patent@nic.in Web Site: www.ipindia.gov.in

CHALLAN: TR-5 DOCKET NO:57077

To,

DR. B. ESWARAN





Date/Time: 02/07/2021 04:07:43

Agent Number:

NO 1/573, 6TH STREET, JOTHI NAGAR, PADIANALLUR, CHENNAI - 52, INDIA. dr.eswaran2111@gmail.com

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	24174	E-12/2567/2021-CHE	202141029770		2750
Total:					2750

Received a sum of Rs. 2750 (Rupees Two Thousand Seven Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Cash	_		_	2750

Note: This is electronically generated receipt hence no signature required.

1/1

PATENT OFFICE INTELLECTUAL PROPERTY BUILDING G.S.T. Road, Guindy, Chennai-600032

Tel No. (091)(044) 22502081-84 Fax No. 044 22502066

E-mail: Chennal-patent@aic.in Web Size: www.ipindia.gov.in





**DOCKET NO :57056** 

DR. B. ESWARAN

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	24166	ORDINARY APPLICATION	202141029770	A MAXILLARY ORIENTATION DEVICE-WHICH HELPS SHAPING MAXILLARY OCCLUSAL RIM BASED ON THE GUIDING	1750
•	-	E-2/2127/2021-CHE	202141029770	Form2	0
2			202141029770	Form3	0
3		CHE	202141020110		-
		E-5/2329/2021-CHE	202141029770	Form5	0
•			202141029770	Form18	4400
5	24166	R20214022502	202141029770	Tormito	6150

Total: m of Rs. 6150 (Rupees Six Thousand One Hundred & Fifty only) through

Received a sum of Ka	. 6130 (Rupees Six II		Cheque/Draft Date	Amount in Rs
Daniel Mada	Bank Name	Cheque/Draft Number	Cheque/ Drait Date	
Payment Mode	Ballik Harrie			6150
Cash		<del>-</del>		

Note: This is electronically generated receipt hence no signature required.





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

क्रमांक : 044135589 SL No :



पेटेंट सं. / Patent No.

381616

आवेदन सं. / Application No.

1036/CHE/2015

पाइत करने की तारीख / Date of Filing

04/03/2015

पेटेरी / Patentee

1 Dr. V. Cyril Raj 2 Mrs. Dahlia Sam

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A VEHICLE CONTROL SYSTEM TO IMPROVE ROAD SAFETY USING VANET नामक आविष्कार के लिए, पेटेंट अधिनयम, १६७० के उपनंत्रों के अनुसार आज तारीख 4th day of March 2015 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A VEHICLE CONTROL SYSTEM TO IMPROVE ROAD SAFETY USING VANET as disclosed in the above mentioned application for the term of 20 years from the 4th day of March 2015 in accordance with the provisions of the Patents Act,1970.

## PROPERTY INDEA STATEMENT AND LARKES SORAPHICALINDICATION & C

जन्म के लगांक : 11/11/2021 Date of Grant : Ochroller of Patent

Repfi - हम मेरेट में आंकरण के लिए पीम, वर्ष हमें क्या तक तरन है, 4th day of March 2017 को और उसके परामा प्रतेष वर्ष में इसे दिन देश सेपी। Note. - The less for renewal of this patent, if it is to be maintained will fail / has fallen due on 4th day of March 2017 and on the same day in every year thereafter.