



||JAI SRI GURUDEV||

Sri Adichunchanagiri Shikshana Trust ®

## **SJB INSTITUTE OF TECHNOLOGY**

(A Constituent Institution of BGS & SJBIT Group of Institution & Hospitals)  
No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri,  
Bengaluru - 560 060

Approved by AICTE - New Delhi.

Affiliated to Visvesvaraya Technological University, Belagavi,  
2(f) and 12(B) recognized by UGC, New Delhi.

Accredited by NAAC, Accredited by NBA. Certified by ISO 9001-2015

---



**3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)**



# **Research Center Details**





# Visvesvaraya Technological University

Jnana Sangama", Belagavi-590 018, Karnataka State

Registrar

Phone: (0831) 2498100

Fax: (0831) 2405467

Ref. VTU/ACA-LIC/2021-22/SO/ 4211/35

Date: 11.09.22

## NOTIFICATION

**Sub: Grant of Recognition / Continuation (Extension) of Research Centers to offer Ph.D/M.Sc. (Engg.) by research reg...**  
**Ref: EC Approval dated 30-11-2021.**

Pursuant to the Resolution of Executive Council referred to the above, it is hereby notified that the following Departments are Recognized as Research Centre/s to offer Ph. D / M.Sc. (Engg) by Research programs under section (41) of the VTU Act 1994, in accordance with the Regulations and Guidelines in force (visit our VTU website [www.vtu.ac.in](http://www.vtu.ac.in) for Regulations & Guidelines). The College / Institution may apply for the continuation of recognition against the University Notification after completion of Recognition period of the Research Centre/s.

**Name of the college: SJB INSTITUTE OF TECHNOLOGY, BENGALURU**

Type of Recognition	Departments	Recognition	Period of the Recognition
Continuation Research Center	Computer Science & Engineering	Recommended	2021-22 and 2022-23
Continuation Research Center	Mathematics	Recommended	2021-22 and 2022-23
Continuation Research Center	Electronics & Communication Engineering	Recommended	2021-22 and 2022-23

To,  
The Principal,  
SJB INSTITUTE OF TECHNOLOGY, BENGALURU

331.

22/2/21

Principal  
SJB Institute of Technology  
# 67, BGS Health & Education City,  
Dr. Vishnuvardhan Road,  
Kengeri, Bengaluru - 560075

REGISTRAR  
VTU, Belagavi

Please Note: Though the Notification is issued for 1 academic year (Fresh) & 2 academic years (Continuation), the college has to pay the continuation fee of Rs. 5,000/- per department annually.

Copy to:

1. The Secretary to VC, VTU, Belagavi for kind information.
2. The Registrar (Evaluation), VTU, Belagavi for kind information.
3. The Regional Director (I/c) of all Regional offices of VTU for kind information.
4. The Special Officer of Ph. D. Section, VTU, Belagavi.

27.9.22



# Visvesvaraya Technological University

Jnana Sangama", Belagavi-590 018, Karnataka State

Phone: (0831) 2498100

Fax: (0831) 2405467

Registrar

Ref. VTU/ACA-LIC/2020-21/SO/ 2091/116

Date: 23 SEP 2020

## NOTIFICATION

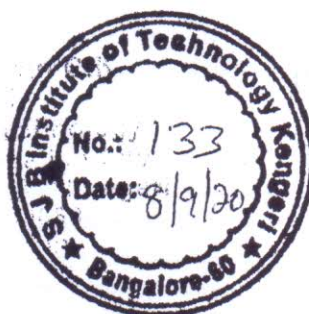
Sub: Grant of Recognition / Continuation (Extension) of Research Centers to offer Ph.D/M.Sc. (Engg.) by research reg...  
Ref: Executive Council Resolution No. 2.3.1 dated 30-07-2020

Pursuant to the Resolution of Executive Council referred to the above, It is hereby notified that the following Departments are Recognized as Research Centre/s to offer Ph. D / M.Sc. (Engg) by Research programs under section (41) of the VTU Act 1994, in accordance with the Regulations and Guidelines in force (visit our VTU website [www.vtu.ac.in](http://www.vtu.ac.in) for Regulations & Guidelines). The College / Institution may apply for the continuation of recognition against the University Notification after completion of Recognition period of the Research Centre/s.

Name of the college: SJB INSTITUTE OF TECHNOLOGY, BENGALURU

Type of Recognition	Departments	Recognition	Period of the Recognition
Continuation Research Center	Mechanical Engineering	Recommended	2020-21 and 2021-22
Continuation Research Center	Information Science & Engineering	Recommended	2020-21 and 2021-22
Continuation Research Center	Physics	Recommended	2020-21 and 2021-22
Continuation Research Center	Civil engineering	Recommended	2020-21 and 2021-22
Continuation Research Center	Electrical & Electronics Engineering	Recommended	2020-21 and 2021-22
Continuation Research Center	Chemistry	Recommended	2020-21 and 2021-22
Continuation Research Center	Master of Business Administration	Recommended	2020-21 and 2021-22

To,  
The Principal,  
SJB INSTITUTE OF TECHNOLOGY, BENGALURU



REGISTRAR  
VTU, Belagavi

Please Note: Though the Notification is issued for 1 academic year (Fresh) & 2 academic years (Continuation), the college has to pay the continuation fee of Rs. 5,000/- per department annually.

Copy to:

1. The Secretary to VC, VTU, Belagavi for kind information.
2. The Registrar (Evaluation), VTU, Belagavi for kind information.

Head of Department  
Department of Civil Engineering  
SJB Institute of Technology  
Uttarahalli Road, Kengeri  
Bangalore-560 060

# **Research Center Facilities**





||JAI SRI GURUDEV||  
Sri Adichunchanagiri Shikshana Trust ®

## SJB INSTITUTE OF TECHNOLOGY

(A Constituent Institution of BGS & SJB Group of Institution & Hospitals)  
No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Approved by AICTE - New Delhi.

Affiliated to Visvesvaraya Technological University, Belagavi,

2(f) and 12(B) recognized by UGC, New Delhi.

Accredited by NAAC, Accredited by NBA. Certified by ISO 9001- 2015

### Research Center Facilities

Name of the Lab	Level	List of Major Equipments
<b>ELECTRONICS &amp; COMMUNICATION ENGG</b>		
RESEARCH CENTER	PG/PhD	Total No. System: 10: (i5, 7th Gen, 8GB RAM, 1TB Hard disc.)
<b>COMPUTER SCIENCE &amp; ENGINEERING</b>		
VTU RESEARCH CENTER	PG/PhD	Computer, Printer, Scanner, Projector, Electrical & Structuring Cable, Computer Table & Chairs
<b>INFORMATION SCIENCE AND ENGINEERING</b>		
RESEARCH LAB	PG/PhD	Lenovo Think Center i5 core,8GB RAM,500GB HDD[4],Lenovo Think center i5 core, 8GB RAM,1Terabyte HDD[5] +Laser JET Pro MFP M329dw Printer cum Scanner[1], 1-EPSON projector
<b>ELECTRICAL AND ELECTRONICS ENGINEERING</b>		
RESEARCH LAB/PROJECT LAB INCUBATION CENTRE	PG/PhD	Lenovo desktop model: M720/B360 Intel core i5-8400/8gb DDR4(2400Mhz)4DIM Slots/1TB/No ODD/No os/64 G
<b>MECHANICAL ENGINEERING</b>		
DESIGN ENGINEERING LAB	PG/PhD	System Acer: 5.0 windows Experience Index Rating, Intel(R) Core (TM) i5-3330s CPU @ 2.70GHz Processor
<b>CIVIL ENGINEERING</b>		
RESEARCH LAB/ STRUCTURAL ENGINEERING LABORATORY	PG/PhD	Servo Shake Table, Ultrasonic Pulse Velocity Tester, Rebound Hammer, Profo Meter, Loading Frame
<b>BASIC SCIENCE</b>		
ENGG. PHYSICS LAB	DOCTOR OF PHILOSOPHY	Resistivity of semiconductor ny four probe method
ENGG.CHEMISTRY	DOCTOR OF PHILOSOPHY	1)Glass doudle distilation 2) M- controller based flame phatometer 3 )M- CONRTOLED SPECTRO PHOTOMETER, 4 )HOT PLATE MAGNETIC STIRRER 5 )HEATING MANTLE 6 )MUFFLE FURNACE, 7 )VACCUM PUMP 8)REFRIGATOR 9 )HP LASER JET PRINTER 1136 10)LASRE PRINTER 1020 11)ICE FLAKER, 12)

		ROTARY EVAPORATOR AND VACUUM PUMP, 13)UV VISIBLE SPECTROPHOTOMETER
ENGG. Mathematics	DOCTOR OF PHILOSOPHY	(5 No's) Lenovo Desktop M710E Think Center and Monitor 19.5", Core i5-7400 7th Gen/8GB DDR4 Ram 1TB HDD



# Patent Details





||JAI SRI GURUDEV||  
Sri Adichunchanagiri Shikshana Trust ®  
**SJB INSTITUTE OF TECHNOLOGY**  
( A Constituent Institution of BGS & SJB Group of Institution & Hospitals)  
No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Approved by AICTE - New Delhi.  
Affiliated to Visvesvaraya Technological University, Belagavi,  
2(f) and 12(B) recognized by UGC, New Delhi.  
Accredited by NAAC, Accredited by NBA. Certified by ISO 9001-2015  
**Department of Computer Science & Engineering**




Ref: SJBIT/CSE/2022-23/126

Date: 10/12/2022

### Patent details

Sl. No.	Title Name of IP (Patent Only)	IP Registration Number of Patent	Date of Patent IP Filed (Month, Year)	Application Level	Status (Filed / Granted)
1	Method And System For Utilizing Deep Learning Techniques For Implementing Electronic (E) Authenticate	202241004656 A	28/01/2022	Engineering & Technology	Published
2	Automated Aerial Vehicle	354840-001	13/12/2021	Engineering & Technology	Filed
3	Automatic Fruit Sorting Using Image Processing	202021038153	04/09/2020	Engineering & Technology	Published
4	Intelligent Temporal Extraction and Analysis Model Based Web Personalized Recommendation	202141027419A	18/06/2021	Engineering & Technology	Published
5	Kannada Text Detection And Recognition From Natural Scene Images Using Aksharanet CNN Model	202141023568	27/05/2021	Engineering & Technology	Published
6	Carry Forward of Unused Resources in Multi Sharing System in Hybrid Cloud	202141002370	19/01/2021	Engineering & Technology	Filed

  
**Head of the Department**  
 Dept. of Computer Science and Engineering  
**SJB INSTITUTE OF TECHNOLOGY**  
 BGS Health & Education City,  
 No. 67, Uttarahalli Road, Kengeri,  
 Bengaluru - 560 060



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

### Application Details

APPLICATION NUMBER	202021038153
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/09/2020
APPLICANT NAME	1 . PROF. VISHRUTH B GOWDA 2 . DR. GOPALAKRISHNA M T 3 . DR. CHATRAPATHY K 4 . DR. NAVEENA C 5 . AJAY B N 6 . RAVI P
TITLE OF INVENTION	AUTOMATIC FRUIT SORTING USING IMAGE PROCESSING.
FIELD OF INVENTION	Computer Science
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	VISHRUTHA04@GMAIL.COM
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/09/2020

### Application Status

[View Documents](#)

Head of the Department  
Dept. of Computer Science and Engineering  
SJB INSTITUTE OF TECHNOLOGY  
BGS Health & Education City,  
No. 67, Uttarahalli Road, Kengeri,  
Bengaluru-560 060.

PATENT OFFICE  
INTELLECTUAL PROPERTY BUILDING  
G.S.T. Road, Guindy, Chennai-600032  
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066  
E-mail : Chennai-patent@nic.in  
Web Site : www.ipindia.gov.in



GOVERNMENT OF INDIA



CHALLAN : TR-5  
DOCKET NO:4996

Date/Time : 19/01/2021

Agent Number:

To,  
DR. PRAVINTH RAJA SUTHAKAR  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, PRESIDENCY UNIVERSITY, BANGALORE -  
560064. pravinthraja@gmail.com

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	2088	ORDINARY APPLICATION	202141002370	CARRY FORWARD OF UNUSED RESOURCES IN MULTI SHARING SYSTEM IN HYBRID CLOUD	1750
2		E-101/518/2021-CHE	202141002370	Correspondence	0
3		E-2/199/2021-CHE	202141002370	Form2	0
Total :					1750

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/ Draft Number	Cheque/ Draft Date	Amount in Rs
Draft	Canara Bank	875564	08/01/2021	1750

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

*Alle*  
Head of the Department  
Dept. of Computer Science and Engineering  
SJB INSTITUTE OF TECHNOLOGY  
BGS Health & Education City,  
No. 67, Uttarahalli Road, Kengeri,  
Bengaluru-560 060.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141027419 A

(19) INDIA

(22) Date of filing of Application :18/06/2021

(43) Publication Date : 02/07/2021

(54) Title of the invention : INTELLIGENT TEMPORAL EXTRACTION AND ANALYSIS MODEL BASED WEB PERSONALIZED RECOMMENDATION

(51) International classification	:G06Q0030020000, G06Q0030060000, G06F0016953500, G02C0007020000, G06F0016957000	(71)Name of Applicant : 1)Mrs.Chaitra H K Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, SJB Institute of Technology, BGS health and education city,Dr.Vishnuvardhan road, Kengeri, Bengaluru-560060 Karnataka India 2)Dr. Suneetha K R
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mrs.Chaitra H K 2)Dr. Suneetha K R
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(52) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract INTELLIGENT TEMPORAL EXTRACTION AND ANALYSIS MODEL BASED WEB PERSONALIZED RECOMMENDATION The challenge of a typical web-based customized recommendation system from the user's viewpoint: to make the customization or suggestion precise and satisfy the user with the personalization or suggestion. Customization is the process of collecting and evaluating the saved information about website users. This concept helps to provide every visitor with the appropriate information at the appropriate moment. Customization should suggest papers and other websites, advertise goods, provide suitable recommendations, e-mail targets, etc. Personalization is being utilized to speed up the delivery to a visitor of information, making the website appealing and encouraging the user to return.

No. of Pages : 23 No. of Claims : 7

**Head of the Department**  
Dept. of Computer Science and Engineering  
**SJB INSTITUTE OF TECHNOLOGY**  
BGS Health & Education City,  
No. 67, Uttarahalli Road, Kengeri,  
Bengaluru-560 060.



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

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



INTELLECTUAL  
PROPERTY INDIA  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

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

#### Application Details

APPLICATION NUMBER	202141023568
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/05/2021
APPLICANT NAME	1 . Shahzia Siddiqua 2 . Sunilkumar S Manvi 3 . Naveena C
TITLE OF INVENTION	KANNADA TEXT DETECTION AND RECOGNITION FROM NATURAL SCENE IMAGES USING AKSHARANET CNN MODEL
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	sshaz79@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/06/2021

#### Application Status

APPLICATION STATUS

Awaiting Request for Examination

*Arul*  
Head of the Department  
Dept. of Computer Science and Engineering  
SJB INSTITUTE OF TECHNOLOGY  
BGS Health & Education City,  
No. 67, Uttarahalli Road, Kengeri,  
Bangalore - 560076.

View Documents



PATENTS / DESIGNS / TRADE MARKS  
GEOGRAPHICAL INDICATIONS

GOVERNMENT OF INDIA  
PATENT OFFICE  
INTELLECTUAL PROPERTY BUILDING  
CP-2, Sector-V, Saltlake City, Kolkata-700091

Tel No. (091)(033) 2367 1943/9101 Fax No. 033 23671988  
(091)(033) 2367 1944

E-mail : controllerdesign.ipo@nic.in  
Web Site : www.ipindia.nic.in

No. 354840-001/D/CA /AG

Dated the :19/01/2022

To

Peramandappatti, K.Eachambadi(PO), Karimangalam  
(TK), Dharmapuri(DT), 635202

SUB : First Examination Report

REF :- Design Application No.354840-001

NAME OF APPLICANT :- Dr. Krishna A N, SJB  
Institute of Technology

Subsequent to examination of above mentioned design application under Section 5(1) of the Design Act,2000, the following objections as appended in this letter are raised by this Office and are being sent to you under Rule 18(1). The following documents are enclosed herewith for amendment and the same should be returned to this office together with your observations, which you may like to submit in response to the said objections. Superseded documents, if any, should also be returned to this office after cancellation over your signature.

As prescribed under Rule 18(1), the period for removal of the appended objection(s) shall not exceed the time period of six months from the date of filing of the application, which shall expire on Date 13/06/2022 for the instant application. The said period may be extended for a further period not exceeding three months on a request made in Form-18 along with fees specified in the First Schedule before the expiry of the above mentioned stipulated time period of six months from the date of filing of the application. If your response to this communication is not received at this office on or before the aforementioned stipulated Date 13/06/2022 (or on or before the extended period if any), the instant application shall be deemed to be abandoned under Section 5(5) read with Rule 21.

*Arup Garu*

Head of the Department  
Dept. of Computer Science and Engineering  
SJB INSTITUTE OF TECHNOLOGY  
BGS Health & Education City  
No. 67, Uttarahalli Road, Kengeri,  
Bengaluru-560 060.

*Arup Garu*  
(Arup Garu)  
[Electronically generated]  
Controller of Designs

Encl:-

1. Objection Sheet
2. No Form

**NOTE:** This is an electronically generated report along with the gist of objections. All Communications to be sent to the Controller of Designs at the above address.

Serial Number	Objections
1	Class-Sub Class Number should be stated appropriately with respect to the nature of article in Application Form 1 (may be 12-07).
2	The article sought for registration attracts sec. 46 of The Designs Act, 2000 and hence the instant application will be sent to competent authority for their clearance/comments for further proceedings in this office.
3	Title of the article as in "view application details" section is inconsistent with that as provided in the representation sheets.
4	You are requested to submit a filled-in Form-1 in prescribed format as per the Designs (amendment) Rules, 2021.
5	While filing the reply, representation Sheets should be signed in original by the applicant/authorized agent. You are requested to submit 2 copies of amended/revised representation sheets in original

**FORM 1****Application for Registration of Design**

[See section 5 and 44]

You are requested to register the accompanying design in:

Sr.	Class	Sub Class	Articles
1	15-00-Machines, not elsewhere specified	15-03-AGRICULTURAL AND FORESTRY MACHINERY	Representation Seat

In the name of :

Sr.	Name	Nationality	Address
1	Dr. Krishna A N, SJB Institute of Technology	India	Professor and Head, Department of Computer Science and Engineering, SJB Institute of Technology, Bengaluru – 560060
2	Dr. Chandra Shekar S M, Vemana Institute of Technology	India	Professor and Head, Department of Electronics and Communication, Vemana Institute of Technology, Bengaluru – 560034
3	Dr.Manu K S, SJB Institute of Technology	India	Assistant Professor, Department of Computer Science and Engineering, SJB Institute of Technology, Bengaluru – 560060
4	Dr. H Sunil, Vemana Institute of Technology	India	Associate Professor, Department of Electronics and Communication, Vemana Institute of Technology, Bengaluru – 560034.
5	Dr.Parameshwara M C Vemana Institute of Technology	India	Associate Professor, Department of Electronics and Communication, Vemana Institute of Technology, Bengaluru – 560034
6	Girish N, Vemana Institute of Technology	India	Assistant Professor, Department of Electronics and Communication, Vemana Institute of Technology, Bengaluru – 560034

7	Mukul Manohar S, Vemana Institute of Technology	India	Assistant Professor, Department of Electronics and Communication, Vemana Institute of Technology, Bengaluru – 560034
8	Deepika D Pai, Vemana Institute of Technology	India	Assistant Professor, Department of Electronics and Communication, Vemana Institute of Technology, Bengaluru – 560034
9	Arun Kumar D R, SJB Institute of Technology	India	Assistant Professor, Department of Computer Science and Engineering, SJB Institute of Technology, Bengaluru – 560060
10	Vignesh T	India	Peramandappatti, K.Eachambadi(PO), Karimangalam(TK), Dharmapuri(DT), 635202

who claim(s) to be the proprietor(s) thereof.

Four exactly similar representations of the design  
accompanying this request.

The design is to be applied to **Representation Seat**,

Address for Service in India is:

**Peramandappatti, K.Eachambadi(PO),  
Karimangalam(TK), Dharmapuri(DT), 635202**

Email ID: **arulkumaran.ckpc@gmail.com**

Mobile No: **9486078445**

**Declaration:**

The applicant(s) claims to be the proprietor(s) of the design  
and that to the best of his knowledge and belief the design is  
new or original.

Dated this 13 day of December 2021

**SIGNATURE  
Vignesh T**

To,  
The Controller of Patents & Designs,  
The Patent Office Kolkata

This form is electronically generated.

  
**Head of the Department**  
Dept. of Computer Science and Engineering  
**SJB INSTITUTE OF TECHNOLOGY**  
BGS Health & Education City,  
**No. 67, Uttarahalli Road, Kengeri,**  
**Bengaluru-560 060.**

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/01/2022

(21) Application No.202241004656 A

(43) Publication Date : 04/02/2022

(54) Title of the invention : METHOD AND SYSTEM FOR UTILIZING DEEP LEARNING TECHNIQUES FOR IMPLEMENTING ELECTRONIC (E) AUTHENTICATION OF AN ENTITY USING EYE BLINKING

(51) International classification :H04L0009320000, G06F0003010000, H04L0029060000,  
G06K0009000000, H04L0012180000  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)DR. LAVANYA KAMPA (Associate Professor)  
Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY  
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING(AUTONOMOUS),  
MYLAVARAM-521230 KRISHNA DISTRICT ANDHRA PRADESH Mail id:  
dr.lavanyakampa@gmail.com Mobile: +91 8499097990 -----  
2)DR. ANUPRIYA KONERU (Associate Professor)  
3)MRS RAMINENI VIJAYA (Associate Professor)  
4)DR. SHIVAYOGI ULLAGADDI (Professor)  
5)DR. BASAVARAJ G.N (Associate Professor)  
6)MR. SANGAMESH (Assistant Professor)  
7)MR. SANJAY KUMAR J H (Assistant Professor)

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. LAVANYA KAMPA (Associate Professor)  
Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY LAKIREDDY  
BALI REDDY COLLEGE OF ENGINEERING(AUTONOMOUS), MYLAVARAM-521230  
KRISHNA DISTRICT ANDHRA PRADESH Mail id: dr.lavanyakampa@gmail.com Mobile:  
+91 8499097990 -----

2)DR. ANUPRIYA KONERU (Associate Professor)  
Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY, LAKIREDDY  
BALI REDDY COLLEGE OF ENGINEERING(AUTONOMOUS) MYLAVARAM-521230  
KRISHNA DISTRICT ANDHRA PRADESH Mail id: smartykoneru@gmail.com Mobile: +91  
9492038061 -----

3)MRS RAMINENI VIJAYA (Associate Professor)  
Address of Applicant :DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND  
INFORMATION TECHNOLOGY DVR AND DR HS MIC COLLEGE OF TECHNOLOGY  
KANCHIKACHERLA- 521180 KRISHNA DISTRICT ANDHRA PRADESH Mail id:  
vijayaramineni5@gmail.com Mobile: 8247607035 -----

4)DR. SHIVAYOGI ULLAGADDI (Professor)  
Address of Applicant :DEPT OF COMPUTER SCIENCE AND ENGINEERING RURAL  
ENGINEERING COLLEGE HULKOTI- 582 205 KARNATAKA Mail id:  
shivayogibu@gmail.com Mobile: 94496 14029 -----

5)DR. BASAVARAJ G.N (Associate Professor)  
Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
SJB INSTITUTE OF TECHNOLOGY BANGALORE 560060 KARNATAKA Mail id:  
basavarajgn@gmail.com Mobile: 9481687666 -----

6)MR. SANGAMESH (Assistant Professor)  
Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
GOVERNMENT ENGINEERING COLLEGE DEVAGIRI HAVERI- 581110 KARNATAKA  
Mail id: sangu.saijan@gmail.com Mobile: 9886260694 -----

7)MR. SANJAY KUMAR J H (Assistant Professor)  
Address of Applicant :DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
HYDERABAD INSTITUTE OF TECHNOLOGY AND MANAGEMENT MEDCHAL Mail  
id: sanjay8h@gmail.com Mobile: 8861233349 -----

(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR UTILIZING DEEP LEARNING TECHNIQUES FOR IMPLEMENTING ELECTRONIC (E) AUTHENTICATION OF AN ENTITY USING EYE BLINKING The present invention provides a novel mechanism for utilizing deep learning techniques for implementing e-authentication of an entity using eye blinking. The method and system implements e-authentication of for identifying true identity of a user by tacking and monitoring eye blinking. The method and device, said authentication and encryption device is configured to communicably connect to said computer, wherein said computer is configured to send data to or receive data from said portable authentication and encryption device, a data processing unit, said data processing unit is configured to at least one of store, process, transmit and receive data to or from said computer.

No. of Pages : 25 No. of Claims : 7

  
Head of the Department  
Dept. of Computer Science and Engineering  
SJB INSTITUTE OF TECHNOLOGY  
BGS Health & Education City,  
No. 67, Uttarahalli Road, Kengeri,  
Bengaluru-560 060.

The Patent Office Journal No. 05/2022 Dated 04/02/2022

6418



||JAI SRI GURUDEV||  
Sri AdichunchanagiriShikshana Trust ®



## SJB INSTITUTE OF TECHNOLOGY

(A Constituent Institution of BGS & SJBIT Group of Institution & Hospitals)  
No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Approved by AICTE - New Delhi.

Affiliated to Visvesvaraya Technological University, Belagavi,

2(f) and 12(B) recognized by UGC, New Delhi.

Accredited by NAAC, Accredited by NBA. Certified by ISO 9001-2015

### Department of Information Science & Engineering

Aca. Year: EVEN/2021-22





Date: 28-09-2022

### Patent Details

Sl. No.	Title/Name of IP	Patent Registration Number of patent	Date of patent IP Filed	Application level	Status
1	<b>IRBC-System: Intelligent rule based Classification systems to classify Discrete sets</b>	202041027658	2020-06-04	Engineering and Technology	Granted
2	<b>ICD-Devices: Intelligent Clustering Digital devices in an Internet of Things (IoT)</b>	202041028300	2020-06-25	Engineering and Technology	Granted
3	<b>Automatic Fruit sorting using image processing</b>	202021038153	2020-09-04	Engineering and Technology	Granted
4	<b>Recommendation models for Big Data Analysis using Multi-Criteria and Hybrid Collaborative filter</b>	202041048855	2020-11-09	Engineering and Technology	Granted
5	<b>GOI on Road Monitoring Device</b>	202141006356A	16/02/2021	Engineering and Technology	Granted
6	<b>An Artificial Intelligence enabled Cryptography based Financial Analytical tool</b>	2021101470	2021-03-23	Engineering and Technology	Granted
7	<b>AI based automated food serve robot for catering application using IoT</b>	202141019218	2021-04-27	Engineering and Technology	Granted

8	A Smart Ring To Detect Water Feeding in Farms Using IoT	341061-001	27/04/2021	Engineering and Technology	Granted
9	Multiple Company Mobile number Integrate in Single SIM	2021102421	09/05/2021	Engineering and Technology	Rejected
10	Iot and Cloud based Security System for Smart Vehicle	202141034157 A	2021-07-29	Engineering and Technology	Granted
11	AI Based hybrid aircraft for medicine deliveries in remote and disaster areas	2021106059	10/11/2021	Engineering and Technology	Granted

  
 Co-ordinator  
 Dr. S. Rajashree

  
**HOD**  
 Head of the Department  
 Dept. of Information Science & Engineering  
 S.J.B. Institute of Technology  
 Kengeri, Bangalore-560 060.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/06/2020

(21) Application No.202041027658 A

(43) Publication Date : 10/07/2020

(54) Title of the invention : IRBC-SYSTEM: INTELLIGENT RULE-BASED CLASSIFICATION SYSTEMS TO CLASSIFY DISCRETE SETS.

(71)Name of Applicant :

1)DR. R. BALAKRISHNA ( DEAN & PROFESSOR)

Address of Applicant :DEPT. OF COMPUTER SCIENCE  
AND ENGINEERING, RAJARAJESWARI COLLEGE OF  
ENGINEERING, #14, RAMOHALLI CROSS,  
KUMBALAGODU, MYSORE ROAD, BANGALORE,  
KARNATAKA-560074, INDIA. E-Mail:  
rayankibala@yahoo.com Karnataka India

2)DR. ANANDKUMAR K S (ASSOCIATE PROFESSOR)

3)DR. MURALI G (ASSOCIATE PROFESSOR)

4)MRS. SELVI M (ASSISTANT PROFESSOR)

5)DR. PIYUSH KUMAR PAREEK (PROFESSOR)

(72)Name of Inventor :

1)DR. R. BALAKRISHNA ( DEAN & PROFESSOR)

2)DR. ANANDKUMAR K S (ASSOCIATE PROFESSOR)

3)DR. MURALI G (ASSOCIATE PROFESSOR)

4)MRS. SELVI M (ASSISTANT PROFESSOR)

5)DR. PIYUSH KUMAR PAREEK (PROFESSOR)

(51) International classification

:G06K

(31) Priority Document No

9/46

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(57) Abstract :

Patent Title: IRBC-System: INTELLIGENT RULE-BASED CLASSIFICATION SYSTEMS TO CLASSIFY DISCRETE SETS.  
ABSTRACT My Invention IRBC-System • is a directed towards classifying data using machine learning that may be incrementally refined based on expert defined input. The Data provided to a intelligent deep learning model that may be trained based on a plurality of classifiers and sets of training and testing data. The fixed number of classification errors exceeds a defined threshold classifier data corresponding to observed classification errors. The learning model may be trained based on the modified classifiers, the data, and the data corresponding to the observed classification errors. The value may be generated and associated with the classification of the data by the fast learning model. Output information may be generated based on a comparison result of the confidence value associated with the fast learning model and the confidence value associated with the deep learning model. Rule-based classification systems to classify sequence sets of data are often difficult and expensive to maintain, and often insufficient for tasks involving large, varying, and complex data sets. The invented systems may be prone to failure if faced with data that varies or changes over time, data that contains variations within the classes themselves. The rule-based algorithms designed in advance may be ineffective at classifying the live data and also the manual design of effective rule-based classifiers may become difficult as the classification options become more complex. In this invention difficult to identify the features in the source data that may be used for effective automatic classification of data. Thus, it is with respect to these considerations and others that the invention has been made.

No. of Pages : 24 No. of Claims : 10



Head of the Department  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/07/2020

(21) Application No.202041028300 A

(43) Publication Date : 31/07/2020

(54) Title of the invention : ICD-DEVICES: INTELLIGENT CLUSTERING DIGITAL DEVICES IN AN INTERNET OF THINGS (IOT)

(71)Name of Applicant :

1)DR. R. BALAKRISHNA (DEAN & PROFESSOR)

Address of Applicant :DEPT. OF COMPUTER SCIENCE AND ENGINEERING, RAJARAJESWARI COLLEGE OF ENGINEERING, #14, RAMOHALLI CROSS, KUMBALAGODU, MYSORE ROAD, BANGALORE, KARNATAKA-560074, INDIA. E-Mail: rayankibala@yahoo.com Karnataka India

2)DR. PRASAD A Y (ASSISTANT PROFESSOR)

3)DR. MURALI G (ASSOCIATE PROFESSOR)

4)MR. SREEPATHI V (ASSOCIATE PROFESSOR)

5)MRS. VASANTHAMMA G (ASSOCIATE PROFESSOR)

(72)Name of Inventor :

1)DR. R. BALAKRISHNA (DEAN & PROFESSOR)

2)DR. PRASAD A Y (ASSISTANT PROFESSOR)

3)DR. MURALI G (ASSOCIATE PROFESSOR)

4)MR. SREEPATHI V (ASSOCIATE PROFESSOR)

5)MRS. VASANTHAMMA G (ASSOCIATE PROFESSOR)

(51) International classification

:H04L

(31) Priority Document No

29/08

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

:NA

(57) Abstract :

Patent Title: ICD-Devices: INTELLIGENT CLUSTERING DIGITAL DEVICES IN AN INTERNET OF THINGS ("IOT™")  
ABSTRACT My Invention ICD-Devices is an intelligent clustering device in an Internet of Things ("IoT™"), including, receiving, by a device clustering module, a characteristic set for a device. The characteristic set specifies one or more device attributes and attribute value for each device attribute; clustering, by the device clustering module, the device into an attribute level cluster based on the one or more device attributes specified in the character set for the device. The things and products for clustering devices in the Internet of Things ("IoT™") in accordance with the invention are described and also the IoT refers to single identifiable. The IoT can be thought of as a dynamic local network infrastructure with self-intelligent configuring capabilities based on standard and intelligent interoperable WI-FI communication defined protocols in which both physical, virtual things have identities and attributes. The physical, virtual things can be seamlessly integrated into traditional networks. You know the IoT can make use of radio-frequency and other required frequency identification technologies to identify and inventory each thing in the IoT.

No. of Pages : 23 No. of Claims : 6

Head of the Department  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060

3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/09/2020

(21) Application No.202021038153 A

(43) Publication Date : 18/09/2020

(54) Title of the invention : AUTOMATIC FRUIT SORTING USING IMAGE PROCESSING.

(51) International classification :B07C0005360000,  
B07C0005342000,  
G02B0006420000,  
G06K0009200000,  
B07C0005340000  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)PROF. VISHRUTH B GOWDA

Address of Applicant :A1-304 SHREYAS SOCIETY  
PUNAWALA, PUNE-411033 Maharashtra India

2)DR. GOPALAKRISHNA M T

3)DR. CHATRAPATHY K

4)DR. NAVEENA C

5)AJAY B N

6)RAVI P

(72)Name of Inventor :

1)PROF. VISHRUTH B GOWDA

2)DR. GOPALAKRISHNA M T

3)DR. CHATRAPATHY K

4)DR. NAVEENA C

5)AJAY B N


6)RAVI P

(57) Abstract :

1. ABSTRACT: Grading of fruits is important in agriculture products processing as a very small number of damaged fruits can cause rottenness and spread the infection to the other good fruits, which are present in the same unit. It can cause a great loss to the manufacturer and if those rotten fruits are mistakenly used in the manufacturing of the product then, it can affect the reputation and sell of the company. Manual sorting of fruits is carried out in many fields. However, it is not the proper and efficient way of sorting the fruits due to lack of accuracy and huge labor charges. Hence, manual sorting is replaced by Computer Vision (CV) using a raspberry pi with the advantages of high precision and high automatization, which is designed, by using image-processing algorithms.

No. of Pages : 8 No. of Claims : 1

V. Shanth B G  
VISHRUTH B. G

  
Head of the Department  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060.

4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/11/2020

(21) Application No.202041048855 A

(43) Publication Date : 13/11/2020

(54) Title of the invention : RECOMMENDATION MODELS FOR BIG DATA ANALYSIS USING MULTI-CRITERIA AND HYBRID COLLABORATIVE FILTER

(51) International classification	:G06N5/04	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. Manu M N
(32) Priority Date	:NA	Address of Applicant :Associate Professor, Department of
(33) Name of priority country	:NA	Information Science & Engineering, SJB Institute of Technology,
(86) International Application No	:NA	Bengaluru-60 Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Manu M N
(61) Patent of Addition to Application Number	:NA	2)Dr. Ramesh B
Filing Date	:NA	3)Dr. Gururaj H L
(62) Divisional to Application Number	:NA	4)Dr. Chandrika J
Filing Date	:NA	5)Dr. Srividya R
		6)Prof. Pushpalatha R

(57) Abstract :

The continuous growth of data generation facilitates enormous opportunities for both public and private companies. Hidden insights of knowledge have been found from huge volume of data. Hence, the need of recommendation system has gained much interest among the researchers. We have developed a better recommendation model for movie applications with better recommender accuracy. The main aim of the recommender systems is to enhance accuracy of the recommended jobs. Our system is processed in three phases, namely, single criteria, multi-criteria and hybrid multi-criteria systems. Each phase aims to enhance the accuracy of recommended jobs. In single criteria recommender systems, the user-to - item relationship were analysed using the similarity measures such as Loglikelihood, Cosine and Pearson correlation coefficient. The proposed model is experimented on Movie lens datasets which proved a recommended error rate of 5.02. Secondly, a recommender system is developed from multi-criteria analysis. In this study, the collaborative filtering is studied from perspectives of user-touser and item-to-item relationships. Similar interests of the users and the ratings given on particular item were collectively analyzed to achieve improved recommender systems. The error rate results have shown that user-to- user relationship is 3.13 and the item-to-item relationship is 3.45. Then, hybrid multi-criteria recommender system is studied using Weighted Arithmetic Mean. The common interests of user and items are aggregated using Weighted Arithmetic Mean. Depends upon computed weight, the top k items are recommended to the users. The error rate result of hybrid multi-criteria recommender systems is 2.72 values. Our research study has proved that decreased error rate achieved from single criteria to hybrid multi-criteria systems.

No. of Pages : 10 No. of Claims : 2



Head of the Department  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060.

5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/02/2021

(21) Application No.202141006356 A

(43) Publication Date : 19/02/2021

(54) Title of the invention : ROAD MONITORING DEVICE

(51) International classification

:A61B0005080000,  
G01C0021340000,  
B60W0040100000,  
B60W0030020000,  
B60W0050080000

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application

Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

1)Dr.Kishore M

Address of Applicant :Designation: Assistant Professor  
Department of Electronics and Communication Engineering K S  
School of Engineering and Management #15/1,Mallasandra, Near  
Vajarahalli,Off.Kanakapura Road,Bengaluru-560109 Email:  
drkm2711@gmail.com Mob:9901166697 Karnataka India

2)Dr. Vinod H C

3)Mr. Santhrupth B C

4)Mrs. Arpitha Shankar S I

5)Dr.Dinesha P

6)Dr.Chethana Sridhar

7)VEERANNA KOTAGI

(72)Name of Inventor :

1)Dr.Kishore M

2)Dr. Vinod H C

3)Mr. Santhrupth B C

4)Mrs. Arpitha Shankar S I

5)Dr.Dinesha P

6)Dr.Chethana Sridhar

7)VEERANNA KOTAGI

(57) Abstract :

TITLE OF INVENTION: Road Monitoring Device Abstract A device for enhancing the safety and comfort of vehicle driving is revealed. The key road sign information found during the journey is transmitted to the driver, the location of the vehicle on the driving surface is constantly monitored and the presence of foreign matter such as mud, speed breakers holes etc. is tested on the road surface. The sensors transmit the data to the alert system and transmit information for subsequent action. This invention enhances safety of driving. The Invention solves safety problem on roads by avoiding accidents by maintaining balance of vehicle. Artificial Intelligence and IoT has played significant modules in invention.

No. of Pages : 11 No. of Claims : 3

Head of the Department

Dept. of Information Science & Engineering

S.J.B. Institute of Technology

Kengeri, Bangalore-560 060.

[Home](#)[Quick](#) [Structured](#) [Advanced](#)

## Search Results

Your search for **2021101470** returned **1** result.

null quickSearch

	Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1	<u>2021101470</u>	An artificial intelligence enabled cryptography based financial analytical tool	C, Vinod H; G., Pavithra; Gurusamy, M.; Kshirsagar, Pravin Ramdas; Kumar, Vipin; Manekar, Ankita Uday; Manjunath, T.C.; Niranjana, S. K.; Patil, Rakesh; Peroumal, Vijayakumar DR; R, Chetan; Rawool, Ameeta Ashok MS; Sasubilli, Satya Murthy; Swarna, Srinivasa Rao; U, Yamuna; Vethamanikam, Hudson Arul	Peroumal, Vijayakumar; Gurusamy, M.; Swarna, Srinivasa Rao; Sasubilli, Satya Murthy; Kumar, Vipin; Rawool, Ameeta Ashok; Niranjana, S. K.; C., Vinod H; R., Chetan; U., Yamuna; Patil, Rakesh; Manekar, Ankita Uday; Vethamanikam, Hudson Arul; G., Pavithra; Manjunath, T. C.; Kshirsagar, Pravin Ramdas	2021-03-23	GRANTED

This data is current as of **2022-09-05 18:00 AEST**.

[CHETAN R.]  
  
 [YAMUNA.U]

**Head of the Department**  
 Dept. of Information Science & Engineering  
 S.J.B. Institute of Technology  
 Kengeri, Bangalore-560 060.



### Application Filing Receipt

**Government of India**  
**Patent Office**  
Intellectual Property Office Building,  
G.S.T. Road, Guindy,  
Chennai - 600032  
Phone- 044-22502081-84  
Fax: 044-22502066  
e-mail: chennai-patent@nic.in

CBR Number : 15314

CBR date: 27-04-2021

Application Type: ORDINARY APPLICATION

Priority Number:

Priority Date:

Priority Country: Not Selected

To,

Santosh M Nejekar

Santosh Nejekar, Executive Director, NEJAKAR TECHNOLOGIES, Haveri Siddadevanagar, Near Head Post Haveri Karnataka India 581110

Received documents purporting to be to an application for patent numbered 202141019218 dated 27-04-2021 by Santosh M Nejekar of NEJAKAR TECHNOLOGIES, Haveri Siddadevanagar, Near Head Post Haveri Karnataka India 581110 relating to "AI BASED AUTOMATED FOOD SERVE ROBOT FOR CATERING APPLICATION USING IOT" together with the Provisional and fee(s) of ₹1600 ( One Thousand Six Hundred only).

#### Note:

1. In case of Patent Application accompanied by a Provisional Specification, a complete Specification should be filed within 12 months from the date of filing of the Provisional Specification, failing which the application will be deemed to be abandoned under Section 9(1) of the Patent Act, 1970.
2. You may withdraw the application at any time before the grant of patent, if you wish so. If, in addition to withdrawal, you also wish to prevent the publication of application in the Patent Office Journal, the application should be withdrawn within fifteen months from the date of priority of date of filing, whichever is earlier.
3. If not withdrawn, your application will be published in the Patent Office Journal after eighteen months from the date of priority of date of filing, whichever is earlier.
4. If you wish to get your application examined, you should file a request for examination in Form-18 within 48 months from the date of priority or date of filing, whichever is earlier, failing which the application will be treated as withdrawn by the applicant under Section 11(B)(4) of the Patent Act, 1970.

(For Controller of Patents)

*Abhilash C.N.*

Dr. ABHILASH C.N

*[Signature]*

**Head of the Department**  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060.

**FORM 1**  
**THE PATENTS ACT 1970**  
**(39 of 1970) &**  
**The Patent Rules, 2003**

**APPLICATION FOR GRANT OF PATENT**  
(See section 7, 54 & 135, and rule 20(1))

**(FOR OFFICE USE ONLY)**

Application No:  
Filing Date:  
Amount of fee paid:  
CBR No:  
Signature:

Application No.	
Filing date:	
Amount of Fee paid:	
CBR No:	
Signature	

**1. APPLICANT'S REFERENCE / IDENTITY NUMBER. (AS ALLOTTED BY OFFICE)**

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

Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent Addition ()	Divisional ()	Patent Addition ()	Divisional ()	Patent Addition ()

**3A. APPLICANT(S)**

Name in Full	Nationality	Country of Residence	Address of Applicant	
SANTOSH M NEJAKAR	Indian	India	House No.	NEJAKAR TECHNOLOGIES, Haveri
			Street	Siddadevanagar, Near Head Post
			City	Haveri
			State	Karnataka
			Country	India
			Pin code	581110
RAJASHEKHAR U	Indian	India	House No.	Assistant Professor Dept of Electronics and Communication Engineering, Government Engineering College
			Street	Devagiri
			City	Haveri
			State	Karnataka
			Country	India
			Pin code	581110

			City	Tiruchirapalli
			State	Tamilnadu
			Country	India
			Pin code	620015
DR. SHIVAKUMAR DALALI	Indian	India	House No.	Associate Professor, Dept of CSE, Don Bosco Institute of Technology
			Street	Kumbalagodu
			City	Bangalore
			State	Karnataka
			Country	India
			Pin code	560074
RAJASHEKHAR U	Indian	India	House No.	Assistant Professor Dept of Electronics and Communication Engineering, Government Engineering College
			Street	Devagiri
			City	Haveri
			State	Karnataka
			Country	India
			Pin code	581110
DR. ABHILASH C N	Indian	India	House No.	Associate Professor, Dept of ISE, SJB Institute of Technology
			Street	Kengeri, Uttarahalli Road
			City	Bangalore
			State	Karnataka
			Country	India
			Pin code	560074
DR. SUNILKUMAR G	Indian	India	House No.	Assistant Professor, Dept of CSE, University Visvesvarya College of Engineering,
			Street	Bangalore University
			City	Bangalore
			State	Karnataka
			Country	India
			Pin code	560074

DR. SAVITHA G	Indian	India	House No.	Associate Professor, Dept of CSE, R V Institute of Technology and Management
			Street	Chaithanya Layout, 8 <sup>th</sup> Phase, J.P. Nagar,
			City	Bangalore
			State	Karnataka
			Country	India
			Pin code	560076
DR. B N SHANKARGOWDA	Indian	India	House No.	Associate Professor, Dept of CSE, Bangalore Institute of Technology
			Street	K R Road Vishweshwarapura, Basavanagudi
			City	Bangalore
			State	Karnataka
			Country	India
			Pin code	560004

#### 5. TITLE OF THE INVENTION

"AI BASED AUTOMATED FOOD SERVE ROBOT FOR CATERING APPLICATION USING IOT"

#### 6. AUTHORISED REGISTERED PATENT AGENT(S)

IN/PA No.	NA
Name	NA
Mobile no.	NA

#### 7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA

Name	SANTOSH M NEJAKAR
Postal Address	Nejekar Technologies, Siddadevanagar, Near Head Post office, Haveri- 581110
Telephone No.	-
Mobile No.	9480184610
Fax No.	-
E-Mail ID	nejakar.hvr@gmail.com

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

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

#### 9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF

INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATIVE TREATY (PCT)

International application number

International filing date

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

Original (first) application number

Date of filing of Original (first) application

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

Main application/ Patent Number

Date of Filing of main application

12. DECLARATIONS

i) Declaration by the inventor(s)

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

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

i)

(a)Date: 28-04-2021

(b)Signature of the inventor:



© Name: **DR. MANJUNATH SWAMY B E**

(a)Date: 28-04-2021

(b)Signature of the inventor:



© Name: **MRS. ASHA KRISHNA**

(a)Date: 28-04-2021

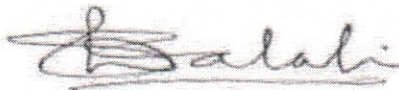
(b)Signature of the inventor:



© Name: **SHALINI RAMANATHAN**


(a)Date: 28-04-2021

(b)Signature of the inventor:




© Name: **DR. SHIVAKUMAR DALALI**

(a)Date: 28-04-2021

(b)Signature of the inventor: 


© Name: **RAJASHEKHAR U**

(a)Date: 28-04-2021

(b)Signature of the inventor: 


© Name: **DR. ABHILASH C N**

(a)Date: 28-04-2021

(b)Signature of the inventor: 


© Name: **DR. SUNILKUMAR G**

(a)Date: 28-04-2021

(b)Signature of the inventor: 

© Name: **DR. SAVITHA G**

(a)Date: 28-04-2021

(b)Signature of the inventor: 

© Name: **DR. B N SHANKARGOWDA**

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

**I/We, the applicant hereby declares that:-**

- ☐ I/We am 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 the patent to me/us.

- ☐ There is no lawful ground of objection to the grant of the patent to me/us.
- ☐ I/We are the assignee or legal representative of true and first inventors.
- ☐ The application or each of the application, particulars of which are given in Para 5 was the first application in convention country/countries in respect of my/our invention.
- ☐ I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- ☐ My/Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para - 9.
- ☐ The application is divided out of my/our application particulars of which are given in Para-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 Para-11

### 13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete/ Provisional Specification #	No. of Pages	3	
No. of Claims	No. of claims and No. of Pages	0	
Abstract	No. of Pages	1	
No. of Drawings	No. of drawings and No. of pages	0	

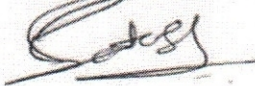
# In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to mentioned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

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

(j) Total Fee ₹ \_\_\_\_\_ in Cheque bearing no: \_\_\_\_\_ dated this \_\_\_\_\_ bank, drawn from \_\_\_\_\_

We hereby declare that to the best of our knowledge, information, and belief that the fact and matters stated herein are correct and we request that a patent may be granted to us for the said invention **Dated this 28<sup>th</sup> day of April, 2021.**

For **NEJAKAR TECHNOLOGIES, HAVERI**

Authorized Signatory: 

Name in full: Santosh M Nejakar

Designation: Executive Director, Nejakar Technologies,  
Haveri.

Seal: **Executive Director**  
Nejakar Technologies, Haveri.

To,  
The Controller of Patents,  
Patent Office Chennai,  
Chennai – 600 032.



## Design Application Details

### Application Number:

341061-001

### Cbr Number:

201824

### Cbr Date:

19/03/2021 15:56:01

### Applicant Name:

- |                                |                    |                     |                 |                   |
|--------------------------------|--------------------|---------------------|-----------------|-------------------|
| 1. Dr. Kedri Janardhana        | 2. V Kiran Kumar   | 3. Dr.S.Thavamani   | 4. U Sinthuja   |                   |
| 5. Dr.K.Kishore                | 6. Dr.K.Tharini    | 7. Dr. Nirmala Baby | 8. Dr.G.Nandini | 9. Dr.T.Kiruthiga |
| 10. Dr.T.G.Shejo               | 11. V.Sandhya      | 12. I.Rajeswari     | 13. Zatin Gupta |                   |
| 14. Dr.C.Arunkumar Madhuvappan | 15. S Nithyananthi |                     |                 |                   |

## Design Application Status

### Application Status:

Examination Report has been Generated , Case is Waiting for Examination Report Reply (FER generated on 27/04/2021)

[Back \(/DesignApplicationStatus/\)](#)

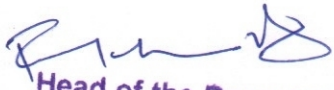
Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under "Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : [controllerdesign.ipo@nic.in](mailto:controllerdesign.ipo@nic.in)

Controller General of Patents, Designs and Trademarks

V. Kiran Kumar

V. K. ———— E .

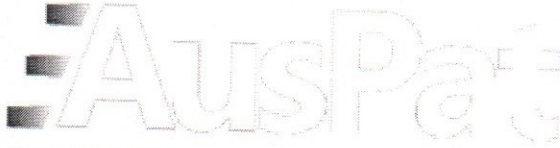
  
Head of the Department  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060.

**FORM – 1**  
**Application for Registration of Designs.**  
**Sections 5 and 44**

You are requested to register the accompanying in;

Class No \_\_\_\_\_ in the name, ;

Dr. Kedri Janardhana	Dr. Kedri Janardhana, Assistant Professor (Senior Grade), Department Of Electrical Engineering, Faculty Of Engineering, Dayalbagh Educational Institute (Deemed To Be University), Dayalbagh, Agra, Uttar Pradesh-282005
V Kiran Kumar	Assistant Professor, Department Of Ise, Sjb Institute Of Technology Bgs Health And Education City, Kengeri Uttarahalli Road ,Bengaluru 560060.Karnataka
Dr.S.Thavamani	Sri Ramakrishna College Of Arts And Science (Autonomous), [Formerly Snr Sons College], Avinashi Road, Nava India, Coimbatore-641006
U Sinthuja	Sri Ramakrishna College Of Arts And Science (Autonomous), [Formerly Snr Sons College], Avinashi Road, Nava India, Coimbatore-641006
Dr.K.Kishore	Dr.K.Kishore, Assistant Professor Of Commerce, Voorhees College, Vellore-632001. Tamilnadu. India
Dr.K.Tharini	Government Arts College, Trichy-22
Dr. Nirmala Baby	Christian College Of Engineering And Technology, Oddanchatram, Dindigul (Dt), Tamil Nadu, India – 624 619
Dr.G.Nandini	Sns College Of Technology, Sathy Main Road,Cbe-641035
Dr.T.Kiruthiga	St.Joseph's College For Women, Kangeyam Road Tirupur-4.
Dr.T.G.Shejo	St.Joseph's College For Women, Kangeyam Road, Tirupur-641 604.
V.Sandhya	Sns College Of Technology, Sns Kalvi Nagar, Nh 209. Sathy Main Road , Vazhiyampalayam, Saravanampatti (Post), Coimbatore,

[Home](#)[Quick](#) [Structured](#) [Advanced](#)**Search Results**Your search for **2021102421** returned **1** result.

null quickSearch

Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1 <a href="#">2021102421</a>	Multiple Company Mobile Number Integrate in Single SIM	B.S, Pradeep DR; Balakrishna, R. DR; Cauvery, N K DR; G, Murali DR; K S, Rajesh DR; Manoj, Sumitha DR; Neeli, Jyoti MRS; Parameshwaraiah, Dr; Patil, Shamshekar MR; Prasad, Shalini DR; Vijayanand, S. DR	Balakrishna, R.; Patil, Shamshekar; K S, Rajesh; Manoj, Sumitha; G, Murali; B.S, Pradeep; Parameshwaraiah; Prasad, Shalini; Neeli, Jyoti; Cauvery, N K; Vijayanand, S.	2021-05-09	REFUSED

This data is current as of **2022-09-05 18:00 AEST**.

**Head of the Department**  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060.

10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/07/2021

(21) Application No.202141034157 A

(43) Publication Date : 13/08/2021

(54) Title of the invention : IOT AND CLOUD BASED SECURITY SYSTEM FOR SMART VEHICLE

(71)Name of Applicant :

1)Dr. CHAITRA H V

Address of Applicant :ASSOCIATE PROFESSOR  
DEPARTMENT OF COMPUTER SCIENCE AND  
ENGINEERING NITTE MEENAKSHI INSTITUTE OF  
TECHNOLOGY P.B.NO. 6429, NITTE MEENAKSHI  
COLLEGE RD, BSF CAMPUS, YELAHANKA, BENGALURU,  
KARNATAKA 560064 Karnataka India

2)Dr. MADHU PATIL

3)Dr. MANJULA B M

4)Dr. MOHAN H.S

5)Dr. BINDIYA M K

6)Ms. AKANKSHA SONI

7)Mr. SURAJ S

8)Dr. DANKAN GOWDA V

9)Dr. ANSUMAN SAMAL

10)Dr. SRINIVASA RAO P

(72)Name of Inventor :

1)Dr. CHAITRA H V

2)Dr. MADHU PATIL

3)Dr. MANJULA B M

4)Dr. MOHAN H.S

5)Dr. BINDIYA M K

6)Ms. AKANKSHA SONI

7)Mr. SURAJ S

8)Dr. DANKAN GOWDA V

9)Dr. ANSUMAN SAMAL

10)Dr. SRINIVASA RAO P

(51) International classification

:A63B0069340000,

G08B0015020000,

A61B0005117000,

E05G0005020000,

G07C0009370000

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:PCT//

Filing Date

:01/01/1900

(87) International Publication No

:NA

(61) Patent of Addition to Application  
Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA


Filing Date

:NA

(57) Abstract :

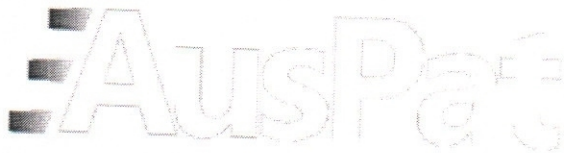
ABSTRACT IOT AND CLOUD BASED SECURITY SYSTEM FOR SMART VEHICLE This innovation identifies with open our vehicles by utilizing our unique mark as key and to detect our cars wellbeing in versatile, PC or some other electronic contraptions utilizing IOT. It is exceptionally protected control of the vehicles from other individual on the grounds that, the thought suggested in this innovation is like a versatile's unique finger impression lock. Today, innovation has made the incredible and unthinkable things conceivable and significantly decreased labor additionally tackled serious issues in ventures and gave high benefit for enterprises. Innovation has additionally tackling a lot of everyday life issues. The primary saying of this task is to get mindfulness from autos robbery. To start with, this undertaking is mix of a few plans to make things protected, basic, practical well disposed. In any case, this innovation is truly outstanding and less difficult for establishment and harder for robbers who attempt to take our vehicles. One degree of guaranteeing verification of a vehicle through a biometric sensor, the standard of the task is EMBEDDED SYSTEM and BIOMETRIC. Unapproved access is denied by planning a lock that stores the fingerprints of at least one approved clients according to prerequisite. The finger impression is detected by sensor and is approved for confirmation. On the off chance that the unique finger impression coordinates, the entryway will be opened naturally, in any case the ringer associated with a sound intensifier will be initiated so individuals close to environmental factors will get an alarm. The utilization of GSM MODULE assists the client with recognizing the movement through instant message, advising the client.

No. of Pages : 28 No. of Claims : 6

  
Head of the Department  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060.

The Patent Office Journal No. 33/2021 Dated 13/08/2021

35805

[Home](#)[Quick](#) [Structured](#) [Advanced](#)**Search Results**Your search for **2021106059** returned **1** result.

null quickSearch

Application number	Title	Applicant(s)	Inventor(s)	Filing date	Application status
1 <a href="#">2021106059</a>	"AI Based hybrid aircraft for medicine deliveries in remote and disaster areas"	B E, Manjuath Swamy DR; B K, Ramya MRS; B, Rekha; Jain, Prathik DR; Nejakar, Santosh M PROF; S, Pavitra Bai DR; U, Rajashekhar PROF	Nejakar, Santosh; U., Rajashekhar; Jain, Prathik; B. E., Manujnath Swamy; B., Rekha; S., Pavitra Bai; B. K., Ramya	2021-08-20	GRANTED

This data is current as of **2022-09-05 18:00 AEST**.

Dr. Pavitra Bai S.

Ramya. B.K

Head of the Department  
Dept. of Information Science & Engineering  
S.J.B. Institute of Technology  
Kengeri, Bangalore-560 060.

## Department of Electronics and Communication Engineering

Patent Details					
Sl. No.	Title/Name of IP (Patent Only)	IP Registration Number of Patent	Date of Patent IP Filed (Month, Year)	Application Level	Status (Filed/Granted)
1	An Ai Enabled Prosthetic Arm for Rehabilitation And Advanced Arm Dynamics	202241045887 A	11-08-2022	Engineering & Technology	Published
2	Smart Phone Based System for Attendance Registration with Handwriting Recognition And Method Thereof	202111030890 A	09-07-2021	Engineering & Technology	Granted
3	An Unmanned Automatic Lawn-Mower Assembly	20571/2021-CO/L (Copyright)	26-08-2021	Engineering & Technology	Copyright
4	Real Time Traffic Management System Using Machine Learning and Image Processing	2021105151	09-08-2021	Engineering & Technology	Published
5	A Method for Controlling Fluid Flow and A Fluid Flow Control System	201641005548	27-10-2021	Engineering & Technology	Published
6	AI Based Smart Meter for Water Utilization And Quality Monitoring Using IoT	2021105136	09-08-2021	Engineering & Technology	Published
7	A Method for Controlling Acoustic Noise In Switched Reluctance Motor	202141049065 A	27-10-2021	Engineering & Technology	Published
8	Gaze Controlled Electric Iron Box	20222041046240A	23-10-2020	Engineering & Technology	Published

### Department of Electronics and Communication Engineering

9	Method For Diagnose and Management Of Faults In Smart City Cleanliness Administration Using Self-Ada	202141010921	15-03-2021	Engineering & Technology	Published
10	A Power Quality and Demand Side Management System For A Smart Grid Using Machine Learning For Providing Efficient Resource Utilization And The Method Thereof	202141022163 A	17-05-2021	Engineering & Technology	Published
11	IoT Based Automated System for Freeway Framework 3	202141039583 A	01-09-2021	Engineering & Technology	Published
12	Apparatus And a Method for Beamforming Using Phased Array Antenna	202141035802 A	09-08-2021	Engineering & Technology	Published
13	Electronic Nose System for Food Applications	201941027652 A	10-07-2019	Engineering & Technology	Published
14	Development Of Virtual Monitoring and Mechanism for Renewable Energy Sources Embedded With IoT	202121059926 A	22-12-2022	Engineering & Technology	Published
15	A Method and System for External Car Washing By Using Arduino	2021105725	07-08-2021	Engineering & Technology	Granted
16	Artificial Speaking IoT Based Talking Hand an Assistive Device For Dumb People In Regional Language Kananda	2021103792	07-01-2022	Engineering & Technology	Granted

  
 Head  
 Dept. of Electronics & Communication Engg  
 SJB Institute of Technology  
 Bengaluru-560060

पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

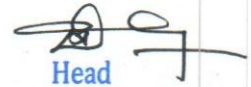
निर्गमन सं. 33/2022  
ISSUE NO. 33/2022

शुक्रवार  
FRIDAY

दिनांक: 19/08/2022  
DATE: 19/08/2022



पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

  
Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

The Patent Office Journal No. 33/2022 Dated 19/08/2022

51626

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241045887 A

(19) INDIA

(22) Date of filing of Application :11/08/2022

(43) Publication Date : 19/08/2022

(54) Title of the invention : An AI Enabled Prosthetic Arm for Rehabilitation and advanced arm Dynamics

(51) International classification :A61B0005000000, G06F0003010000, A61F0002580000,  
A61F0002720000, A61B0005047600  
(86) International Application :PCT//  
No :01/01/1900  
Filing Date :01/01/1900  
(87) International Publication : NA  
No : NA  
(61) Patent of Addition to :NA  
Application Number :NA  
Filing Date :NA  
(62) Divisional to Application :NA  
Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)Dr. Mahantesh K

Address of Applicant :Dept. of ECE, SJBIT, BGSHEC, Kengeri -----

2)Dr. Lakshminarayana M

3)Preeti Karanji

4)Rishi K

5)R Siddushree Taralabalu

6)Suman M N

7)Mr. Bhaskar Belavadi

8)Dr. Manjunath Managuli

9)Mr. Darshan B D

10)Dr. D N Chandrappa

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Mahantesh K

Address of Applicant :Dept. of ECE, SJBIT, BGSHEC, Kengeri -----

2)Preeti Karanji

Address of Applicant :Student, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

3)Rishi K

Address of Applicant :Student, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

4)R Siddushree Taralabalu

Address of Applicant :Student, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

5)Suman M N

Address of Applicant :Student, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

6)Mr. Bhaskar Belavadi

Address of Applicant :Assistant Professor, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

7)Dr. Manjunath Managuli

Address of Applicant :Assistant Professor, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

8)Mr. Darshan B D

Address of Applicant :Assistant Professor, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

9)Dr. D N Chandrappa

Address of Applicant :Professor, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

10)Dr. Lakshminarayana M

Address of Applicant :Assistant Professor, Dept. of ECE SJBINSTITUTE OFTECHNOLOGY#67, BGS Health& Education City, Dr. Vishnuvardhan Road, Kengeri Bangalore -----

(57) Abstract :

ABSTRACT: By using the brain's output pathway, BCI allows commands and messages to be sent to the arm. Numerous different physiological signals can be used to run BCI devices. Many BCI systems have intricate architectures that need lengthy processing. The most common input for BCI applications is the Motor Imagery-EEG signal, however EEG is frequently tainted with noise. Few research has shown actual BCI control of a prosthetic device, despite suggestions that this control can be used for neuroprosthetics. In this experiment, a motor imagery BCI that uses an electroencephalogram (EEG) to guide the movement of a prosthetic hand is demonstrated. To give haptic feedback and local machine control, the hand was instrumented with force and angle motors. Motor Imagery (MI) is now highly adapted to control machine or computer by interfacing with brain or mind. This proposes a method to differentiate elbow, wrist, and finger motor imagery movement according to two and three class classification using statistical features of the EEG signal of the subjects. For this purpose, the collected EEG signals of TWO subjects are segmented and feed to classification methods, which decomposes each EEG segmented signal to collect the relevant features and classifies the movement class trials data. Comparing the classifiers' efficiency allows us to determine the best method for a given number of features.

No. of Pages : 6 No. of Claims : 5

Head  
Dept. of Electronics & Communication En.  
SJB Institute of Technology  
Bengaluru-560060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111030890 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 30/07/2021

(54) Title of the invention : SMART PHONE BASED SYSTEM FOR ATTENDANCE REGISTRATION WITH HANDWRITING RECOGNITION AND METHOD THEREOF

(51) International classification :G06Q0010100000,  
G06Q0050200000,  
G07C0001100000,  
G06K0009000000,  
G07C0001120000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

## (71)Name of Applicant :

1)ANVEKAR, DINESH KASHINATH  
Address of Applicant :19, HALCYON DEFENCE  
ENCLAVE, BAGALUR CROSS, SATHNUR, BENGALURU-  
562149, KARNATAKA, INDIA Karnataka India  
2)RAJUK, VENUGOPAL KUPPANNA  
3)SHAHABADKAR, RAMESH  
4)SHAHABADKAR, KRUTIKA RAMESH  
5)SAHA, SANCHARI  
6)BOLUGALLU, SHANTHI MANDEKOLU  
7)YADAHALLI, RAVI MALLESHPA  
8)MOHAPATRA, SASMITA  
9)PARIMI, PHANINDAR RAVI  
10)MUNIRATHNAM, LAKSHMINARAYANA ✓  
11)KIRESUR, MANJULA VASANT  
12)SIDDARAJU, NANDINI KANDAVARA

## (72)Name of Inventor :

1)ANVEKAR, DINESH KASHINATH  
2)RAJUK, VENUGOPAL KUPPANNA  
3)SHAHABADKAR, RAMESH  
4)SHAHABADKAR, KRUTIKA RAMESH  
5)SAHA, SANCHARI  
6)BOLUGALLU, SHANTHI MANDEKOLU  
7)YADAHALLI, RAVI MALLESHPA  
8)MOHAPATRA, SASMITA  
9)PARIMI, PHANINDAR RAVI  
10)MUNIRATHNAM, LAKSHMINARAYANA  
11)KIRESUR, MANJULA VASANT  
12)SIDDARAJU, NANDINI KANDAVARA

## (57) Abstract :

The invention relates to a smart phone based system and method for attendance registration within a campus. The system comprises an attendance registration module installed in the smart phone (220); and an attendance server (230) storing an attendance database being in a wireless communication mode (235) with the attendance registration module. The attendance registrant (210) has to initiate his/her attendance registration process by using his/her smart phone when reaches his/her campus (200). The registration module is configured to receive from the server (230) a one time random phrase (OTRP) to be displayed in a screen of the smart phone (220), thereafter the attendance registrant (210) is requested through a message to write the OTRP on paper whose image is to be sent to the server (230) using the same smart phone (220). The server (230) is configured to check location of the attendance registrant (210) using GPS and the authenticity of his/her handwriting image through an artificial intelligence tool (400), which allows the attendance database to be updated and simultaneously an attendance status message to be sent to the smart phone (220).

No. of Pages : 16 No. of Claims : 6

Head  
Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060



## Extracts from the Register of Copyrights



Dated : 21/12/2021

1. Registration Number : **L-109564/2021**
2. Name, address and nationality of the applicant :
 

MRS. V.SARALA , ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI COLLEGE OF ENGINEERING, CHENNAI 600092-INDIAN

**DR RAVI KUMAR A V** , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-INDIAN

DR.M J CHANDRASHEKAR , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-INDIAN

MR.J.JABINTH , ASSISTANT PROFESSOR, MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-INDIAN

DR. SUPREETH H S G , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-INDIAN
3. Nature of the applicant's interest in the copyright of the work : OWNER
4. Class and description of the work : LITERARY/ DRAMATIC WORK AN UNMANNED AUTOMATIC LAWNMOWER ASSEMBLY
5. Title of the work : AN UNMANNED AUTOMATIC LAWNMOWER ASSEMBLY
6. Language of the work : ENGLISH
7. Name, address and nationality of the author and if the author is deceased, date of his decease :
 

MRS. V.SARALA , ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI COLLEGE OF ENGINEERING, CHENNAI 600092-INDIAN

DR RAVI KUMAR A V , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-INDIAN

DR.M J CHANDRASHEKAR , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-INDIAN

MR.J.JABINTH , ASSISTANT PROFESSOR, MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-INDIAN

DR. SUPREETH H S G , ASSOCIATE PROFESSOR

*Dr. Ravi Kumar A.V.*

*[Signature]*  
Head

Dept. of Electronics & Communication  
SJB Institute of Technology  
Bengaluru-560060

comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any

OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI COLLEGE OF ENGINEERING, CHENNAI 600092-INDIAN

DR RAVI KUMAR A V , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-

INDIAN

DR.M J CHANDRASHEKAR , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-

INDIAN

MR.J.JABINTH , ASSISTANT PROFESSOR, MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-INDIAN

DR. SUPREETH H S G , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-

INDIAN

12. Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

MRS. V.SARALA , ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI COLLEGE OF ENGINEERING, CHENNAI 600092-INDIAN

DR RAVI KUMAR A V , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-

INDIAN

DR.M J CHANDRASHEKAR , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-

INDIAN

MR.J.JABINTH , ASSISTANT PROFESSOR, MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-INDIAN

DR. SUPREETH H S G , ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60-

INDIAN

13. If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown). : N.A.
14. If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957. : N.A.
15. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details. : N.A.
16. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000.whether it has been applied to an article though an industrial process and ,if yes ,the number of times it is reproduced. : N.A.

17. Remarks, if any :

Diary Number : 20571/2021-CO/L

Date of Application : 26/08/2021

Date of Receipt : 26/08/2021

*Ravi Kumar A.V.*

*[Signature]*  
Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060



Australian Government

IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021105151

The Commissioner of Patents has granted the above patent on 1 June 2022, and certifies that the below particulars have been registered in the Register of Patents.

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

Nataraj Swamy of Don Bosco Institute of Technology, Kumbalagodu, Bangalore Bangalore 560074 India  
Santosh M Nejakar of Don Bosco Institute of Technology, Outer Ring Road Bengaluru Karnataka 560072 India  
Rekha R of Professor, Dept of ECE, SJBIT, Kengeri Bangalore 560060 India  
Sheela S of Assistant Professor, Don Bosco Institute of Technology, Bangalore Bengaluru KARNATAKA 560074 India

**Title of invention:**

REAL TIME TRAFFIC MANAGEMENT SYSTEM USING MACHINE LEARNING AND IMAGE PROCESSING

**Name of inventor(s):**

Swamy, Nataraj; Nejakar, Santosh; R., Rekha and S., Sheela

**Term of Patent:**

Eight years from 9 August 2021

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.

Head

Dept. of Electronics & Communication Engg  
SJBIT Institute of Technology  
Bengaluru-560060



Dated this 1<sup>st</sup> day of June 2022

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right



Intellectual Property Attorneys

July 13, 2016

**THE CONTROLLER OF PATENTS**

Intellectual Property Office  
Intellectual Property Office Building  
G.S.T. Road, Guindy,  
Chennai-600032

**UPLOADED ONLINE CONFIRMATION**

**BY POST**

Phone: 044-22502081-84

Fax: 044-22502066

E-mail: [Chennai-patent@nic.in](mailto:Chennai-patent@nic.in)

Re: Indian Complete Patent Application No. 201641005548  
Filed on: 17-02-2016  
Title: "A METHOD FOR CONTROLLING FLUID FLOW AND A FLUID FLOW CONTROL SYSTEM THEREOF"  
Applicant: SJB INSTITUTE OF TECHNOLOGY, RAMESH PRAKASH GULEDGUDD and NATARAJ RAMASWAMY  
Our Ref: IP33559/Vs/ev

Dear Sir,

We write with reference to the aforesaid Indian Patent Application, wherein we would like to submit as under.

The present application was filed at the Indian Patent Office SJB INSTITUTE OF TECHNOLOGY, RAMESH PRAKASH GULEDGUDD and NATARAJ RAMASWAMY as applicants and RAMESH PRAKASH GULEDGUDD as inventors. However, the applicant and inventors would like to add the below mentioned person as co-inventor whose names were inadvertently omitted in the application forms while filing the application.

1. NATARAJ RAMASWAMY
2. REKHA KR

In this regard, the applicant respectfully submits herewith the following:

1. An 'Affidavit', duly executed by the existing inventors and applicant declaring their consent/ground for addition of co-inventors listed above in the application;

**K & S PARTNERS**

4121/B, 6th Cross, 19A Main, HAL II Stage (Extension), Bangalore 560038, India  
Tel: + 91 (80) 40427900 Fax: +91 (80) 4042 7901  
E-Mail: [bangalore@knspartners.com](mailto:bangalore@knspartners.com); Website: [www.knspartners.com](http://www.knspartners.com)

Also at Gurgaon | Hyderabad | Mumbai | New Delhi

*Pell*

*[Signature]*

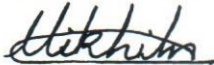
Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

2. An 'Affidavit' executed by the inventors to be added as co-inventors declaring the ground for adding them as co-inventors in the application.
3. Fresh Form 5 duly executed by the additional inventor; and

We respectfully request the learned Controller to take the above documents on record and proceed further in this matter.

Yours faithfully,



NIKHIL S.R

of K & S Partners

Agent for the Applicant

Enclosures: As above.

*Rev*



Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

## FORM 30

THE PATENTS ACT, 1970

(39 of 1970)

and

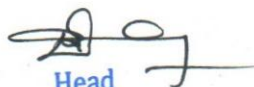
THE PATENTS RULES, 2003

TO BE USED WHEN NO OTHER FORM IS PRESCRIBED

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

1. Name of the applicant(s).	SJB INSTITUTE OF TECHNOLOGY			
2. Complete address including postal index number/code and State along with e-mail ID, telephone, mobile and fax number.	House No.	Department of electronics and communication, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri,	Telephone No.	+91-80-40427900
	Street		Mobile No.	+91 7349778249
	City	Bangalore	Fax No.	+91-80-40427901
	State	Karnataka		
	Country	India		
	Pin code	560060	E-mail ID	<a href="mailto:bangalore@knspartners.com">bangalore@knspartners.com</a>
1. Name of the applicant(s).	RAMESH PRAKASH GULEGDUDD			
2. Complete address including postal index number/code and State along with e-mail ID, telephone, mobile and fax number.	House No.	C/o Electronics and Communication Engineering Department, SJB INSTITUTE OF TECHNOLOGY, BGS Health and Education city, Uttarahalli Main Road,	Telephone No.	+91-80-40427900
	Street		Mobile No.	+91 7349778249

Reh

  
Head

Dept. of Electronics & Communication Eng.  
SJB Institute of Technology  
Bengaluru-560060

		adjacent to Abhiman Studio, Kengeri		
	City State Country	Bangalore Karnataka India	Fax No.	+91-80-40427901
	Pin code	560060	E-mail ID	<a href="mailto:bangalore@knspartners.com">bangalore@knspartners.com</a>
1. Name of the applicant(s).	<b>NATARAJ RAMASWAMY</b>			
2. Complete address including postal index number/code and State along with e-mail ID, telephone, mobile and fax number.	House No. Street	HOD, C/o Electronics and Communicati on Engineering Department, SJB INSTITUTE OF TECHNOLOG Y, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri	Telephone No. Mobile No.	+91-80-40427900  +91 7349778249
	City State Country	Bangalore Karnataka India	Fax No.	+91-80-40427901
	Pin code	560060	E-mail ID	<a href="mailto:bangalore@knspartners.com">bangalore@knspartners.com</a>
3. Application No. / Patent No.	<b>201641005548</b>			
4. Relevant section / rules	Section 57 and Rule 81(1)			
5. Purpose of request	To add Nataraj Ramaswamy and Rekha KR as inventors for the application No. 201641005548			
6. Details of request	Executed affidavits from the existing inventor and additional inventors and applicants and executed Form 5 by all the inventors is uploaded online and confirmation copy thereof, in original, is being sent via post.			

*Rekha*

*[Signature]*  
Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

7. To be signed by applicant	Signature <u>Nikhil S. R.</u>
8. Name of the natural person who has signed along with designation and official seal, if any.	NIKHIL S. R. OF K & S PARTNERS AGENT FOR THE APPLICANT(S) IN/PA-2127
	To The Controller of Patents, The Patent Office, At Chennai

Rev 

  
Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060



17 August 2021

# Notice of filing for your innovation patent application



Delivering a world leading IP system

Phone: 1300 651 010  
International: +61 2 6283 2999

[www.ipaustralia.gov.au](http://www.ipaustralia.gov.au)

ABN: 38 113 072 755

## Santosh M Nejakar

Don Bosco Institute of Technology  
Outer Ring Road  
Bengaluru Karnataka 560072  
India

**Application number** 2021105136  
**Applicant name** Santosh M Nejakar

Dear Applicant,

Thank you for filing an innovation patent application with IP Australia.

**Your innovation patent application number is:**  
2021105136

**Your filing date is:** 9 August 2021

### What you need to do now

- **Check your details** – attached to this letter are the details of your application. Please review your details to ensure they are correct.

### What will happen next

- **If your application is in order** – your innovation patent will be accepted and granted within four weeks of your filing date. If there are any outstanding matters, we will contact you.
- **If the filing fee has not been paid** - an Invitation To Pay will be issued to you.

### Your progress

- ☒ **Filed**  
Application is filed
- ☐ **Acceptance and Grant**  
Application is accepted and patent granted
- ☐ **Examination**  
Patent is being examined
- ☐ **Certification**  
Patent is certified (patent is now enforceable)
- ☐ **Renewal**  
Renewal fees required to maintain patent (fees are due annually- please refer to the 'paid to' date in AusPat for your next due date)

### Need help?

Talk to Alex, our virtual assistant



For further information on this topic, visit our [website](#).

Make an enquiry or provide feedback on our [website](#).

Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

**Things to be aware of**

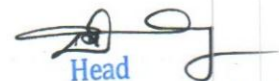
- Please note that the filing of this application does not entitle you to claim that a patent has been granted at this stage.
- Please quote your application number when contacting IP Australia or making payments.

Details of your patent application can be viewed on AusPat, our Australian patent search database.

Yours sincerely,

IP Australia

*Rev*

  
Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

# Your application summary

## Innovation patent application details

**Application number:** 2021105136  
**Title:** AI Based Smart Meter for Water Utilization and Quality Monitoring Using IoT

## Documents filed

A complete specification comprising:

- Description
- Claim(s)
- Drawing(s)

An abstract has also been filed.

## Applicant and inventor details

**Applicant name(s) and address(es)** (as it will appear on certificate/s) :

Santosh M Nejakar of Don Bosco Institute of Technology, Outer Ring Road Bengaluru Karnataka 560072 India

**Inventor name(s):** K. R., Nataraj Swamy  
Nejakar, Santosh M.  
U. Kumar, Rehka K. R.

## Agent details

**Agent Name** Santosh M Nejakar  
**Address for correspondence:** Don Bosco Institute of Technology  
Outer Ring Road  
Bengaluru Karnataka 560072  
India  
**Address for legal service:** 9, Greengate Close  
North gate  
north gate SA 5085  
Australia

## Priority details

**Priority details:** None

## Relevant dates

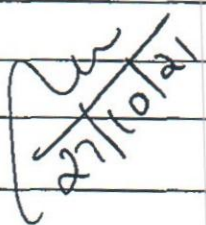
**Filing date:** 9 August 2021  
**Date of patent:** 9 August 2021  
**Expiry date:** 9 August 2029

Rehka

  
Head  
Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060



700275532

<b>FORM 1</b> <b>THE PATENTS ACT, 1970</b> <b>(39 of 1970)</b> <b>&amp;</b> <b>The Patents Rules, 2003</b>  <b>APPLICATION FOR GRANT OF PATENT</b> [See section 7, 54 & 135 and sub rule 1 of rule 20]		<b>(FOR OFFICE USE ONLY)</b>			
		Application number:		202141049065	
		Filing date:		27/10/2021	
		Amount of fee paid:		1750/-	
		CBR No:		40176	
		Signature:			
<b>1. APPLICANT'S REFERENCE / IDENTIFICATION NUMBER (as allotted by office)</b>					
<b>2. TYPE OF APPLICATION (Please click (✓) at the appropriate category)</b>					
Ordinary (✓)		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of addition ( )	Divisional ( )	Patent of addition ( )	Divisional ( )	Patent of addition ( )
<b>3. APPLICANT(S)</b>					
Name in full	Nationality	Country of Residence	Address of the Applicant		
Rekha P S	INDIAN	INDIA	House No.	Assistant Professor Department of Electrical and Electronics	
			Street	SJBIT	
			City	Bangalore	
			State	Karnataka	
			Country	India	
			Pin code	560060	
Dr. Mamatha Mahesh Gowda	INDIAN	INDIA	House No.	Professor Department of Electrical and Electronics	
			Street	SJBIT	
			City	Bangalore	
			State	Karnataka	
			Country	India	
			Pin code	560 060	
Dr. Padmaja Venugopal	INDIAN	INDIA	House No.	Professor Department of Mathematics	
			Street	SJBIT	
			City	Bangalore	
			State	Karnataka	
			Country	India	
			Pin code	560060	

  
Head

Dr. Vijayakumar T	INDIAN	INDIA	House No.	Professor Dept. of Electronics and Communication
			Street	SJBIT
			City	Bangalore
			State	Karnataka
			Country	India
			Pin code	560060
Roopa D R	INDIAN	INDIA	House No.	Assistant Professor Dept. of Physics
			Street	SJBIT
			City	Bengaluru
			State	Karnataka
			Country	India
			Pin code	560 060
Dr. S. K. Uma	INDIAN	INDIA	House No.	Professor and Head Dept. of Mathematics
			Street	Sir. MVIT
			City	Bengaluru
			State	Karnataka
			Country	India
			Pin code	560 085
Dr. Roopa	INDIAN	INDIA	House No.	Associate Professor Dept. of Mathematics
			Street	GATE
			City	Bangalore
			State	Karnataka
			Country	India
			Pin code	560098
Vimala C S	INDIAN	INDIA	House No.	Assistant Professor Department of Electrical and Electronics
			Street	SJBIT
			City	Bengaluru
			State	Karnataka
			Country	India
			Pin code	560 060

27-Oct-2021/99069/202141049065/Form 1

TENT OFFICE CHENNAI 01/11/2021 11:33

*[Signature]*

Head  
Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

<b>3B. CATEGORY OF APPLICANT (Please click (✓) at the appropriate category)</b>					
Natural person (✓)		Other than Natural person			
		Small entity ( )		Others ( )	
<b>4. INVENTOR(S) (Please click (✓) at the appropriate category)</b>					
Are all the inventor(s) same as the applicant(s) named above?		Yes (✓)		No ( )	
If "No", furnish the details of the inventor(s)					
<b>5. TITLE OF THE INVENTION</b>					
A METHOD FOR CONTROLLING ACOUSTIC NOISE IN SWITCHED RELUCTANCE MOTOR					
<b>6. AUTHORISED REGISTERED PATENT AGENT(S)</b>		IN/PA No.			
		Name			
		Mobile No.			
<b>7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA</b>		NAME		REKHA P S	
		Postal Address		Assistant Professor Department of Electrical and Electronics SJBIT, Bangalore Karnataka India -560060.	
		Telephone No.		-	
		Mobile No.		(0) 9845051051	
		Fax No.		-	
		Email ID		rekhas.venkatesh@gmail.com	
<b>8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION</b>					
Country	Application number	Filing Date	Name of the invention	Title of the invention	IPC (as classified in the convention country)
<b>9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT COOPERATION TREATY (PCT)</b>					
International application number			International filing date		
<b>10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION</b>					
Original (first) application No.			Date of filing original (first) application		
<b>11. IN CASE OF PATENT OF ADDITION, FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT</b>					
Main application/patent No.			Date of filing of main application		

Head

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041046240 A

(19) INDIA

(22) Date of filing of Application :23/10/2020

(43) Publication Date : 30/10/2020

(54) Title of the invention : GAZE CONTROLLED ELECTRIC IRON BOX

(51) International classification

:G06F

(31) Priority Document No

3/01

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

: NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

1) Dr.NAGARAJA B.G.

Address of Applicant :DEPT. OF E&CE, JAIN INSTITUTE  
OF TECHNOLOGY, DAVANGERE-577003. Karnataka India

2)Dr. ARUN KUMAR G

3)Dr. SPOORTI J JAINAR

4)Dr. RAJASHEKHAR B SOMASAGAR

5)Dr.SOMASHEKAR K

6)Mr. VIKAS C. YATNALLI

(72)Name of Inventor :

1)Dr. H. S. JAYANNA

2)Dr. C.M. PATIL

3)Dr. GEETHASHREE A.

4)Mr. SHARANABASAVESHWARA H B

5)Dr. BASAVARAJ G M

6)Dr. T. C. MANJUNATH

7)Mr. VIKAS C. YATNALLI

8)Dr. SOMASHEKAR K

9)Dr. RAJASHEKHAR B

10)Dr. SPOORTI J JAINAR

11)Dr. ARUNKUMAR G

12)Dr. NAGARAJA B.G.

(57) Abstract :

The proposed invention generally relates to the design and development of a gaze controlled electric iron box circuitry to avoid accidental burning of clothes during clothes ironing or clothes pressing process. The operation of the iron box circuitry involves the process of continuous monitoring of positions, movements, and user attentions associated with the iron box during the process of ironing or pressing. The iron box circuitry automatically controls or disables the power supply to the iron box if any discrepancy is found in combination with the said position, movement, and user attention associated with the iron box to avoid the accidental burning of the clothes.

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

Somashekar

Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060



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

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



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

### Application Details

APPLICATION NUMBER	202141010921
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/03/2021
APPLICANT NAME	1 . Dr. Aravinda H.S. 2 . Dr. Mallikarjunaswamy S. 3 . Neela A.G. 4 . Komala M. 5 . Umashankar M.L. 6 . Pooja S. 7 . Dr. Premananda B.S. 8 . Ms. Geetha K. 9 . Dr. Suhasini Vijayakumar Kottur 10 . Dr. Bharati Wukkadada 11 . Dr. Praveen N. 12 . Dr. Srinivas G. 13 . Mr. Sreekanth N. 14 . Dr. Manjula Sanjay Koti 15 . Dr. Pavithra G. 16 . Dr. Pavithra G. 17 . Dr. T.C.Manjunath
TITLE OF INVENTION	METHOD FOR DIAGNOSE AND MANAGEMENT OF FAULTS IN SMART CITY CLEANLINESS ADMINISTRATION USING SELF-ADAPTIVE MACHINE LEARNING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	1990uditmamodiya@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	19/03/2021

*Komala M.*

*[Signature]*  
Head

Dept. of Electronics & Communication Eng.  
SJB Institute of Technology  
Bengaluru-560060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022163 A

(19) INDIA

(22) Date of filing of Application :17/05/2021

(43) Publication Date : 11/06/2021

(54) Title of the invention : A POWER QUALITY AND DEMAND SIDE MANAGEMENT SYSTEM FOR A SMART GRID USING MACHINE LEARNING FOR PROVIDING EFFICIENT RESOURCE UTILIZATION AND THE METHOD THEREOF

(51) International classification :G06Q0050060000,  
H02J0013000000,  
G06Q0010060000,  
G06N0020000000,  
G06Q0010040000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)Dr. Mallikarjunaswamy S

Address of Applicant :JSS Academy of Technical Education,  
JSSATE-B, Campus, Dr.Vishnuvardhan Road, Srinivasapura-Post,  
Bengaluru 560 060, Karnataka, India Karnataka India

2)Dr. Siddesh G K

(72)Name of Inventor :

1)S, Mallikarjunaswamy

2)G K Siddesh

3)N Sharmila

4)M Komala

5)H N, Mahendra

6)D, Prakyath

7)D, Mahesh Kumar

8)K, Sathisha Shet

9)N Mahesh Kumar

10)S Pooja

11)M L, Umashankar

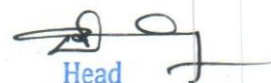
12)V, Rekha

13)K, Shashiraj

(57) Abstract :

Abstract: Title: A Power quality and demand side management System for a smart grid Using Machine Learning for providing efficient resource utilization and the method thereof Electricity plays a crucial role in different sectors of the nation including national security, economy, agriculture and healthcare. The design of the power system has been revolutionized by the incorporation of communication technology. This makes the grid smart. Several issues have been addressed in order to make the utility grid smart. In this work, an enhanced algorithm for Power Quality and demand side management (PQDSM) has been proposed using the machine learning for a smart grid. The proposed algorithm ensures sufficient usage of the energy depending on the priorities allocated in the grid. To effectively control the intrusions into the smart grid, a reconfigurable model has been proposed. The recent agent helps in identifying the dishonest entities by making use of the machine learning classifier. The energy utilization can be made optimal by having the accurate information about the energy using the advanced Energy Management along with the interface controlling agents. The proposed scheme has been tested using an efficient simulation tool. From the evaluation, the results revealed that the proposed power quality and demand side management scheme is less vulnerable to any dishonest entity intrusion and optimizes the power utilization in the smart grid. Figure 1

No. of Pages : 27 No. of Claims : 10

Head  
Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141039583 A

(19) INDIA

(22) Date of filing of Application :01/09/2021

(43) Publication Date : 10/09/2021

(54) Title of the invention : IOT BASED AUTOMATED SYSTEM FOR FREEWAY FRAMEWORK 3

(51) International classification :H04L0029080000,  
B01D0046240000,  
G06Q0050260000,  
G06Q0050100000,  
G05B0019040000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

## (71)Name of Applicant :

1)Dr. A.NARASIMA VENKATESH

Address of Applicant :ASSOCIATE PROFESSOR MBA-  
DEPARTMENT OF HUMAN RESOURCE MANAGEMENT  
RV INSTITUTE OF MANAGEMENT CA 17, 36TH CROSS  
RD, 4TH T BLOCK EAST, JAYANAGARA 9TH BLOCK,  
JAYANAGAR, BENGALURU, KARNATAKA 560041  
Karnataka India

2)Dr. BASANT KUMAR VERMA

3)Mr. ANIL KUMAR TANWAR

4)Dr. S. VIMAL

5)Mrs. BLESSY Y M

6)Dr. SHILPA K GOWDA

7)Dr. MUKESH KUMAR GUPTA

8)Mrs. JAYASHREE M KUDARI

9)Mrs. ADLIN JEBAKUMARI S

10)Dr.ARUNKUMAR G L

## (72)Name of Inventor :

1)Dr. A.NARASIMA VENKATESH

2)Dr. BASANT KUMAR VERMA

3)Mr. ANIL KUMAR TANWAR

4)Dr. S. VIMAL

5)Mrs. BLESSY Y M

6)Dr. SHILPA K GOWDA

7)Dr. MUKESH KUMAR GUPTA

8)Mrs. JAYASHREE M KUDARI

9)Mrs. ADLIN JEBAKUMARI S

10)Dr.ARUNKUMAR G L

## (57) Abstract :

ABSTRACT IOT BASED AUTOMATED SYSTEM FOR FREEWAY FRAMEWORK 3 Internet of Things (IoT) is by and large the organization of 'things' through which actual things can empower to communicate information with the help of hardware, sensors, programming and network. Additionally, These IoT doesn't needed any human interface. IoT Technology is broadly applied in enormous businesses including Energy, medical services and all the more significantly Transportation areas. In this undertaking, the information of the RFID card is shipped off the site, through IOT. The use of IoT cost collection structure in various metropolitan regions would be a compelling development towards the blockage of the city avenues in profound stop up of traffic. Clearly, transportation is the strength of our country's economy. There are diverse execution, shows in far off sensor association, for instance, filter c and parts, including RFID, NFC in this way engaging abatement in action costs and prodding credit just trades. In the event that there ought to emerge an event of manual expense arrangement structure time use is much undeniably more horrible similarly as fuel depletion and most critical is the environment, the proportion of air tainting that is made at the tollbooth site is at verifiable level, so our made system will reduce time wastage and decrease air pollution just as screen fuel. The sole inspiration driving this innovation is to diminish the challenges achieved by manual expense combination system and pass the subject's vehicle through cost limit in an issue of few seconds without end.

No. of Pages : 24 No. of Claims : 7

Head  
Dept. of Electronics & Communication Eng.  
SJB Institute of Technology  
Bengaluru-560060

The Patent Office Journal No. 37/2021 Dated 10/09/2021

41348

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141035802 A

(19) INDIA

(22) Date of filing of Application :09/08/2021

(43) Publication Date : 20/08/2021

(54) Title of the invention : APPARATUS AND A METHOD FOR BEAMFORMING USING PHASED ARRAY ANTENNA

<p>(51) International classification :H01Q0021060000, H04B0007060000, H01Q0009160000, H01P0001180000, H01Q0021000000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Dr. ANITHA P</b> Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF ECE SJB INSTITUTE OF TECHNOLOGY, Kengeri, BANGALORE, KARNATAKA, INDIA, 560060 Karnataka India <b>2)Dr. KUMUTHA D</b> <b>3)Dr.R. KALYAN</b> <b>4)JAYANTHI K</b> <b>5)PROF. B. ANURADHA</b> <b>6)PAVITHRA NEELAM</b> <b>7)Dr. PURUSHOTHAM PRASAD KALISETTI</b></p> <p>(72)Name of Inventor : <b>1) Dr. ANITHA P</b> <b>2)Dr. KUMUTHA D</b> <b>3)Dr.R. KALYAN</b> <b>4)JAYANTHI K</b> <b>5)PROF. B. ANURADHA</b> <b>6)PAVITHRA NEELAM</b> <b>7)Dr. PURUSHOTHAM PRASAD KALISETTI</b></p>
---	---

(57) Abstract :

The present invention provides an apparatus for base station and a method for effective beam forming using phase array antenna in fifth generation communication network. Said apparatus (41) comprises of plurality of transceiver switches (42, 43), plurality of phase shifter (44), analog to digital converter (45) and a controller (51) wherein said apparatus is connected to a beamforming network (61).

No. of Pages : 20 No. of Claims : 7

*Anitha P*

*[Signature]*  
Head

Dept. of Electronics & Communication Eng  
SJB Institute of Technology  
Bengaluru-560060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201941027652 A

(19) INDIA

(22) Date of filing of Application :10/07/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : ELECTRONIC NOSE SYSTEM FOR FOOD APPLICATIONS

(51) International classification

:G01N1/24

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

: NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

**1)Manjunath Managuli**

Address of Applicant :Research Scholar, Department of Electronics and Communication Engineering, R V College of Engineering Mysore Road Bangalore-560059, India. Karnataka India

**2)Dr. Abhay Deshpande**

(72)Name of Inventor :

**1)Dr. Abhay Deshpande****2)Manjunath Managuli**

(57) Abstract :

An electronic nose system for analyzing food based on a chemical reaction, comprising of plurality of chemical sensors and adhesive solutions, wherein methanol and ethanol behave differently when treated with iodine and sodium hydroxide solution.

No. of Pages : 7 No. of Claims : 3

Head

Dept. of Electronics & Communication Eng.  
SJBIT Institute of Technology  
Bengaluru-560060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121059926 A

(19) INDIA

(22) Date of filing of Application :22/12/2021

(43) Publication Date : 07/01/2022

(54) Title of the invention : DEVELOPMENT OF VIRTUAL MONITORING AND MECHANISM FOR RENEWABLE ENERGY SOURCES EMBEDDED WITH IOT

(51) International classification :F21S0009030000, G09B0019000000, F03D0009320000,  
B32B0027060000, G06Q0050100000  
(86) International Application :NA  
No :NA  
Filing Date :NA  
(87) International Publication :NA  
No :NA  
(61) Patent of Addition to :NA  
Application Number :NA  
Filing Date :NA  
(62) Divisional to Application :NA  
Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)Dr. ASHISH K. SHARMA

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, G H RAISONI COLLEGE OF ENGINEERING (GHRCE), HINGNA RD, DIGDOH HILLS, NAGPUR, MAHARASHTRA 440016

2)Dr. SURESH GULUWADI

3)Mr. RAHUL R RAI

4)Dr. BIRRU DEVENDRA

5)Dr. ASHOK KUMAR P S

6)Mr. DARSHAN B D

7)Mrs. LATHA S

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. ASHISH K. SHARMA

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, G H RAISONI COLLEGE OF ENGINEERING (GHRCE), HINGNA RD, DIGDOH HILLS, NAGPUR, MAHARASHTRA 440016

2)Dr. SURESH GULUWADI

Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF THERMAL ENGINEERING ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY ETHIOPIA P.O.BOX: 1888 ADAMA, OROMIA, ETHIOPIA

3)Mr. RAHUL R RAI

Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SJB INSTITUTE OF TECHNOLOGY BGS HEALTH & EDUCATION CITY, DR. VISHNUVARDHAN RD, KENGERI, BENGALURU, KARNATAKA 560060

4)Dr. BIRRU DEVENDRA

Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, HOLY MARY INSTITUTE OF TECHNOLOGY AND SCIENCE,KEESARA, MEDCHAL, HYDERABAD, TELANGANA STATE, INDIA, PIN - 501301,

5)Dr. ASHOK KUMAR P S

Address of Applicant :PROFESSOR DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING DON BOSCO INSTITUTE OF TECHNOLOGY, KUMBALAGODU, BENGALURU 560078, KARNATAKA, INDIA

6)Mr. DARSHAN B D

Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SJB INSTITUTE OF TECHNOLOGY BGS HEALTH & EDUCATION CITY, DR. VISHNUVARDHAN RD, KENGERI, BENGALURU, KARNATAKA 560060

7)Mrs. LATHA S

Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING SJB INSTITUTE OF TECHNOLOGY BGS HEALTH & EDUCATION CITY, DR. VISHNUVARDHAN RD, KENGERI, BENGALURU, KARNATAKA 560060

(57) Abstract :

The Internet of Things has a dream where the web reaches out into this present reality, which fuses ordinary objects. The IoT permits objects to be detected or controlled somewhat over existing organization framework, making openings for unadulterated coordination of the actual world into PC based frameworks, and coming about in improved effectiveness, exactness and monetary advantage notwithstanding decreased human mediation. This innovation has numerous applications like Solar urban communities, Smart towns, Micro frameworks and Solar Street lights, etc. As Renewable energy developed at a rate quicker than some other time in history during this period. The proposed framework alludes to the on the web show of the power utilization of sunlight based energy as a sustainable power. This observing is done through raspberry pi utilizing jar system. Shrewd Monitoring shows day-by-day utilization of environmentally friendly power. This aides the client to examination of energy utilization. Examination affects the environmentally friendly power use and power issues. In this note, this present system exploits the Bluetooth interface of Android Tablet/Mobile phone as a correspondence associate for data exchange with mechanized gear of Power Conditioning Unit (PCU). The Low Cost Android tablet can substitute the graphical LCD outlines and web modem of RES Power Conditioning Unit (PCU) with overhauled graphical insight and contact screen interface.

No. of Pages : 18 No. of Claims : 6

*Rahul Rai*

*[Signature]*  
Head

Dept. of Electronics & Communication Eng  
SJB Institute of Technology  
Bengaluru-560060



Australian Government

IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021105725

The Commissioner of Patents has granted the above patent on 10 November 2021, and certifies that the below particulars have been registered in the Register of Patents.

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

Shobha Shankar of Professor & Head, Dept.of EEE, Vidyavardhaka College of Engineering Mysuru India  
Rashmi S of Associate Professor, Dept.of EEE, Vidyavardhaka College of Engineering Mysuru India  
Mohammed Jalaluddin of Associate Professor, Dept. of EEE, Vidyavardhaka College of Engineering Mysuru India  
Lokesh C of Associate Professor, Dept.of EEE Vidyavardhaka College of Engineering Mysuru India  
Reshma V P of Assistant Professor, Dept.of EEE, Vidyavardhaka College of Engineering Mysuru India  
Savyasachi G K of Assistant Professor, Dept.of EEE, Vidyavardhaka College of Engineering Mysuru India  
Goutham B of Assistant Professor, Dept.of EEE, Vidyavardhaka College of Engineering Mysuru India  
Chaithra Ganesh of Assistant Professor, Dept.of EEE, Vidyavardhaka College of Engineering Mysuru India  
Radhakrishna K R of HOD, Dept. of EEE, Rajeev Institute of Technology Hassan India  
Sumitha C of HOD, Dept. of EEE, GMIT Bharathi Nagara. Mandya (D) India  
Shobha B S of Assistant Professor, Dept. of CS&E, MIT Mysuru India  
Manjunath Lakkannavar of Assistant Professor, Dept.of EEE, MSRIT Bengaluru India  
Geethanjali N of Assistant Professor, Dept.of EEE, SJBIT Bengaluru India

**Title of invention:**

A METHOD AND SYSTEM FOR EXTERNAL CAR WASHING BY USING ARDUINO

**Name of inventor(s):**

K., Gopala Reddy; D., Niveditha; C. N., Prerana; V., Sushmitha and M., Kavya

**Term of Patent:**

Eight years from 17 August 2021

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 10<sup>th</sup> day of November 2021

  
Head

Commissioner of Patents

Dept. of Electronics & Communication Eng.  
SJB Institute of Technology  
Bengaluru-560060

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



Australian Government  
IP Australia

16

# CERTIFICATE OF GRANT INNOVATION PATENT

**Patent number:** 2021103792

The Commissioner of Patents has granted the above patent on 23 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

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

Nataraj Swamy of Don Bosco Institute of Technology, Kumbalagodu, Bangalore Bangalore 560074 India  
Santosh Nejakar of Assistant Professor, Dept of ECE, Don Bosco Institute of Technology Bengaluru 560074 India  
Rekha R of Professor, Dept of ECE, SJBIT, Kengeri Bangalore 560060 India

**Title of invention:**

ARTIFICIAL SPEAKING IOT BASED "TALKING HAND" AN ASSISTIVE DEVICE FOR DUMB PEOPLE IN REGIONAL LANGUAGE KANNADA

**Name of inventor(s):**

Swamy, Nataraj; Nejakar, Santosh and R., Rekha

**Term of Patent:**

Eight years from 1 July 2021

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.

*Rekha*

*[Signature]*  
Head

Dept. of Electronics & Communication Engg  
SJB Institute of Technology  
Bengaluru-560060



Dated this 23<sup>rd</sup> day of March 2022

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

## Department of Civil Engineering

Patent Details					
Sl. No.	Title/Name of IP (Patent Only)	IP Registration Number of Patent	Date of Patent IP Filed (Month, Year)	Application Level	Status (Filed/Granted)
1	Implementation of green IoT for efficient resource utilizn and the creation of sustainable materials	202141046122	10-10-2021	Engineering & Technology	FILED
2	Method And System For Testing Sand With Natural Coir Fiber	201841009620	15-03-2018	Engineering & Technology	FILED
3	“Flower Briquette-A source of Bio-energy	202141040162	04-09-2021	Engineering & Technology	Published
4	Design of Novel Multi-Purpose Study Table for Educational Institution	202141040166	04-09-2021	Engineering & Technology	Published
5	A Filter Block for Liquid Filtration in Water Purifier	348030001	17-08-2021	Engineering & Technology	Published
6	Industrial waste water treatment technology using fine membrane	202241034653	24-06-2022	Engineering & Technology	Published
7	Development of artificial angular aggregate using industrial waste	202141029709	02-07-2021	Engineering & Technology	Published
8	Investigative Studies Of Wilcox Diagram In Irrigation Water Samples	202141056808	17-12-2021	Engineering & Technology	Published


  
 Head of Department  
 Department of Civil Engineering  
 S J B Institute of Technology  
 Uttarahalli Road, Kengeri  
 Bengaluru-560 060




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



Application Details	
APPLICATION NUMBER	202141046122
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/10/2021
APPLICANT NAME	1 . Arumugam Ranjith 2 . Mr. Gokul Chandrakant Talele Sex: Male 3 . Dr.Revathi.R 4 . Mr.Boreddy Surya Prakash Reddy 5 . Mr. Nitin B. Raut 6 . Mr. Y V Niranjan Kumar 7 . Dr. Sridhar R ✓ 8 . Mr. Vishal Prakash 9 . Dr Manoj Kumar Mishra 10 . Dr. Arun Kumar Pallathadka 11 . Dr. Harikumar Pallathadka
TITLE OF INVENTION	Implementation of green IoT for efficient resource utilization and the creation of sustainable smart cities.
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	aranjithece@gmail.com
ADDITIONAL-EMAIL (As Per Record)	anvarshathik@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	22/10/2021

  
(Dr. R. Sridhar)

  
Head of Department  
Department of Civil Engineering  
S J B Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru-560 060



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

## Design Application Details

### Application Number:

348030-001

### Cbr Number:

206462

### Cbr Date:

17/08/2021 21:23:54

### Applicant Name:

1. Mr. Ashish Dubay B      2. Dr. Sundramurthy Venkatesa Prabhu      3. Mr . Achyuth K N  
4. Dr. Asha G

## Design Application Status

### Application Status:

Design Accepted and Published, Journal No is 31/2022 and Journal Date is 05/08/2022

[Back \(https://search.ipindia.gov.in/DesignApplicationStatus/\)](https://search.ipindia.gov.in/DesignApplicationStatus/)

Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under " Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings under the Design Act 2000. In case of any discrepancy you may contact the appropriate Patent Office or send your comments to following email IDs:

Design Office, Kolkata : [controllerdesign.ipo@nic.in](mailto:controllerdesign.ipo@nic.in)

Controller General of Patents, Designs and Trademarks

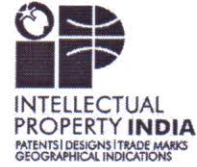
G. Asha  
(Dr. Asha G)

*(Signature)*  
Head of Department  
Department of Civil Engineering  
S J B Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru-560 060

Controller General of Patents, Designs & Trade  
Marks



सत्यमेव जयते  
G.A.R.6  
[See Rule 22(1)]  
RECEIPT



Docket No 18401

Date/Time 2018/03/15 21:40:56

MALHOTRA RAJAT Ideas2IPR, B-115  
Chander Nagar, Janak Puri, New Delhi-  
110058 Email: mail@ideas2ipr.com

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Fee Payment	Remarks
1	201841009620	TEMP/E-1/9892/2018-CHE	1600	7260	Full	Method and system for testing sand with natural coir fiber

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000356719	Online Bank Transfer	02806341503201851174	1600.00	1475001020000001

Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

Received from MALHOTRA RAJAT the sum of ₹ 1600 on account of Payment of fee for above mentioned Application/Forms.

\* This is a computer generated receipt, hence no signature required.

[Print](#)
[Home](#)
[About Us](#)
[Contact Us](#)

*[Signature]*  
(Dr. R. Sridhar)

*[Signature]*  
Head of Department  
Department of Civil Engineering  
SJB Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru-560 060.

Welcome Dr Nataraj K R

[Sign out](#)

Controller General of Patents, Designs & Trade Marks



सत्यमेव जयते

G.A.R.6  
[See Rule 22(1)]  
RECEIPT



INTELLECTUAL  
PROPERTY INDIA  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

Docket No 78766

Date/Time 2021/09/04 15:13:41

To  
Dr Nataraj K R

UserId: sritblr123

S R Innovative Technologies, # 18, 1st Cross,  
80 Feet road, NGEF Layout, 12th Block, 2nd  
stage, Nagarabhavi

CBR Detail:

Sl. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202141040162	TEMP/E-1/45148/2021-CHE	1600	32934	FORM 1	FLOWER BRIQUETTES -A SOURCE OF BIOENERGY

Transaction ID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000850513	Online Bank Transfer	0409210005185	1600.00	1475001020000001

Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

Received from Dr Nataraj K R the sum of ₹ 1600 on account of Payment of fee for above mentioned Application/Forms.

\* This is a computer generated receipt, hence no signature required.

[Print](#)

[Home](#)

[About Us](#)

[Contact Us](#)

DR. LAKSHMI.C

Head of Department  
Department of Civil Engineering  
S J B Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru-560 060

Controller General of Patents, Designs & Trade  
Marks

सत्यमेव जयते

G.A.R.6  
[See Rule 22(1)]  
RECEIPT

Docket No 78783

Date/Time 2021/09/04 15:49:30

To  
Dr Nataraj K R

UserId: srithir123

S R Innovative Technologies, # 18, 1st Cross,  
80 Feet road, NGEF Layout, 12th Block, 2nd  
stage, Nagarabhavi

## CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.R.R. No.	Form Name	Remarks
1	202141040166	TEMP/E- 1/45156/2021-CHE	1600	32944	FORM 1	DESIGN OF NOVEL MULTIPURPOSE STUDY TABLE FOR EDUCATIONAL INSTITUTIONS

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A.C. No
N-0000850534	Online Bank Transfer	0409210005778	1600.00	1475001020000001

Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

Received from Dr Nataraj K R the sum of ₹ 1600 on account of Payment of fee for above mentioned Application/Forms.

\* This is a computer generated receipt, hence no signature required.

[Print](#)[Home](#)[About Us](#)[Contact Us](#)  
Dr. LAKSHMI.C  
Head of Department  
Department of Civil Engineering  
S J B Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru-560 060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241034653 A

(19) INDIA

(22) Date of filing of Application :16/06/2022

(43) Publication Date : 24/06/2022

(54) Title of the invention : Industrial waste water treatment technology using fine membrane

(51) International classification :C02F0003120000, C02F0001280000, C02F0009000000, C02F0001660000, G01N0033180000  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)Dr. Asha.G

Address of Applicant :Associate Professor, Department of Civil Engineering, SJB Institute of Technology, Bengaluru 560060, Karnataka, India. Bengaluru -----

2)Dr. Vishishtta Nagaraj

3)Mr. Achyuth K N

4)Mr. Manoj B R

5)Mr. Ashish Dubay B

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Asha.G

Address of Applicant :Associate Professor, Department of Civil Engineering, SJB Institute of Technology, Bengaluru 560060, Karnataka, India. Bengaluru -----

2)Dr. Vishishtta Nagaraj

Address of Applicant :Assistant Professor, Department of Environmental Engineering, JSS Science and Technology University, SJCE, Mysore 570006, Karnataka, India. Mysore -----

3)Mr. Achyuth K N

Address of Applicant :Assistant Professor, Department of Civil Engineering, Maharaja Institute of Technology Mysore, Mandya 571477, Karnataka, India. Mandya -----

4)Mr. Manoj B R

Address of Applicant :Assistant Professor, Department of Civil Engineering, Maharaja Institute of Technology Mysore, Mandya 571477, Karnataka, India. Mandya -----

5)Mr. Ashish Dubay B

Address of Applicant :Assistant Professor, Department of Civil Engineering, Maharaja Institute of Technology Mysore, Mandya 571477, Karnataka, India. Mandya -----

(57) Abstract :

The purification of industrial wastewater that contains impurities that poison or otherwise inhibit bacterial forms employed in the biological treatment of wastewater is accomplished by a process that involves submitting the wastewater to a biological treatment process in the presence of activated carbon or fuller's earth. This step is performed while the wastewater is being treated. To offer oxidation methods, a gas that contains molecular oxygen is diffused throughout the liquid mixture while the treatment is being performed. Despite the presence of the poisonous or inhibiting impurities, the process successfully lowers the biochemical oxygen demand, the chemical oxygen demand, and the total organic content of the wastewater in an unusually rapid manner. Additionally, the process removes material not typically removed by the biological treatment alone.

No. of Pages : 23 No. of Claims : 6

G. Asha  
(Dr. Asha.G)

  
Head of Department  
Department of Civil Engineering  
SJB Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru-560 060

The Patent Office Journal No. 29/2021 Dated 16/07/2021

31687

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202141029709 A

(19) INDIA

(22) Date of filing of Application : 02/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : DEVELOPMENT OF ARTIFICIAL ANGULAR AGGREGATE USING INDUSTRIAL WASTE

(51) International classification	:C04B0028000000, C04B0012000000, C04B0028360000, G01N0033380000, C04B0018080000	(71) Name of Applicant : 1) Sindhuora.C Address of Applicant : 203, SS Vrusha apartment VISL Layout, Bangalore Karnataka India 560109 Karnataka India
(31) Priority Document No	:NA	(72) Name of Inventor : 1) Sindhuora.C
(32) Priority Date	:NA	2) Arpitha Gowda S.L.
(33) Name of priority country	:NA	3) Adhishanathan K.S
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

With increase in demand of natural resources like coarse aggregates used in Construction, usage of artificial aggregates in construction is being studied for replacement of natural Aggregates in production of concrete. Increasing attention in recent years of converting fly ash into a value added product like aggregates offer greater potential for its high volume utilization, thereby reducing use of depleting natural aggregates. Artificial aggregates called Geopolymer aggregates was prepared by crushing mechanism to obtain different shapes of aggregates instead of rounded angular aggregates. Crushing process was carried out by hammering with the required fly ash to iron ore tailing ratio. Trial and error method was used to fix fly ash to iron ore tailing ratio. Totally Four different ratios were considered with fly ash to iron ore tailing ratios as 80:20, 70:30, 60:40 and 50:50. Each set of fly ash to iron ore tailing ratio was mixed with alkaline activator solution, the formed slurry is casted into cubes, later steam cured and compressive strength is determined. Binding materials such as Sodium hydroxide(NaOH) and Sodium silicate(Na<sub>2</sub>SiO<sub>3</sub>) were being considered in manufacture of coarse aggregates as an alternative to natural aggregates. Aggregate tests were conducted for the obtained geopolymer aggregates and compared with the natural aggregates. With the prepared coarse aggregates, concrete cubes were casted by varying the geopolymer aggregates to natural aggregates ratios as 100:0, 70:30, 60:40 and 50:50. Compressive strength of concrete was determined for these ratios. By taking the ratio for which maximum compressive strength was obtained, flexural strength and split tensile strength of concrete was determined

No. of Pages : 12 No. of Claims : 2

The Patent Office Journal No. 29/2021 Dated 16/07/2021

Sumran  
Head of Department  
Department of Civil Engineering  
S J B Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru - 560 060

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202141029710 A



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

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



INTELLECTUAL  
PROPERTY INDIA  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

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

### Application Details

APPLICATION NUMBER	202141056808
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/12/2021
APPLICANT NAME	1 . SHIVAPRASAD H 2 . RASHMI KHAMBENOUR 3 . MALLIKARJUN S DENG 4 . GOWTHAM PRASAD M E 5 . KIRAN M S ✓ 6 . PRAJWAL R P NADAGOWDA 7 . VARUN KUMAR REDDY N
TITLE OF INVENTION	INVESTIGATIVE STUDIES OF WILCOX DIAGRAM IN IRRIGATION WATER SAMPLES
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	shivaprasad.h61@gmail.com
ADDITIONAL-EMAIL (As Per Record)	drshivaprasadhias2023@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	31/12/2021

*[Signature]*  
[KIRAN.M.S.]

*[Signature]*  
Head of Department  
Department of Civil Engineering  
S J B Institute of Technology  
Uttarahalli Road, Kengeri  
Bengaluru-560 060

## Department of Mechanical Engineering

Patent Details					
Sl. No.	Title/Name of IP (Patent Only)	IP Registration Number of Patent	Date of Patent IP Filed (Month, Year)	Application Level	Status (Filed/Granted)
1	A Machine for Making Finger Millet Flour Balls /K & S partner- Indian complete patent.	201741030809	31/08/2017	Design	Filed
2	Multi Stage Blade Rotor for Horizontal Axis Wind Turbine / Intellectual Property India.	202141022434	19/5/2021	Design	Published
3	Artificial Intelligence Based Construction of Mechanically Developed Machine Motion Prediction System / Intellectual Property India.	202141024097	31/05/2021	CS	Published
4	System for Integrated Monitoring & Management of Agriculture & Related Parameters Using IoT / Intellectual Property India.	20211101983	16/05/2021	CS	Published
5	Artificial Intelligence based automated material management system / Intellectual Property India	202141024010A	18/06/2021	Artificial Inteligence	Published
6	Design and Development of Solar Power Based Electric Vehicle Charging Booths / Intellectual Property India	202141018627	30/04/2021	Electrical	Published
7	Study of the Behaviour and Performance of a Solar Steam Turbine by Calculating Three Variants Based on the Available Technologies / Intellectual Property India	202141027064 A	07-02-2021	Thermal	Published

### Department of Mechanical Engineering

8	An Energy – Efficient Thermodynamics Cycle to Liquify Biomethane on a Micro Scale/ Intellectual Property India	202141029268 A	16/07/2021	Thermal	Published
9	An Experimental Study Carried Out In Orthogonal Section On The Titanium Alloy Ti-6al-4v Using The Kinematic And Thermal Field Measurement Device/ Intellectual Property India	202141041759	15/05/2021	Materials	Published
10	Preparation method for Biodiesel utilizing waste catering Grease/ Intellectual Property India	202241028397A	27/05/2022	Thermal	Published

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060



Intellectual Property Attorneys

**January 4, 2019**

Mr. Madhusudhan Thimmegowda  
**SJB Institute of Technology**  
BGS HEALTH & EDUCATION CITY  
No. 67, Uttarahalli Road,  
Adjacent to Abhiman Studio,  
Kengeri, Bangalore South - 560 060

**BY COURIER**

Phone : 080-28612445 / 46  
Fax: 080-28612651  
E-mail : [mechhod@sjbit.edu.in](mailto:mechhod@sjbit.edu.in)

Re: Indian Complete Patent Application No. 201741030809  
Filed on: 31/08/2017  
Title: "A SEMI-AUTOMATIC APPARATUS FOR PRODUCING FINGER-  
MILLET FLOUR BALLS"  
Applicant: Madhusudhan Thimmegowda  
Your Ref: IP38985/VS/ev

Dear Sir,

We write further to our e-mail dated 01/10/2018 with reference to the subject matter, wherein we confirm that we have filed complete after provisional application at the Indian Patent Office. A copy of the as-filed documents, filing receipt along with invoice is enclosed.

In case of any query, please feel free to reach us. Please acknowledge receipt.

Yours sincerely,

**Bharat S.**  
Of K&S Partners  
Bangalore

Encl: As mentioned above

Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060



Intellectual Property Attorneys

**SJB INSTITUTE OF TECHNOLOGY**

BGS Health and Education city,

Uttarahalli Main Road, Adjacent to Abhiman Studio, Bangalore 560 060 Karnataka, India

State: **Karnataka** | State Code: **29**

GSTIN :

Kind Attn.

Invoice No. **BLR/1819/03294**

Date: **December 21, 2018**

SAC: **998213**

**INVOICE**

Re: Indian Patent Application No. 201741030809

Filed on: 31-08-2017

Title: A SEMI-AUTOMATIC APPARATUS FOR PRODUCING FINGER-MILLET FLOUR BALLS"

Applicant: MADHUSUDAN THIMMEGOWDA

Your Ref: -

Our Ref: **IP38985/BS/EV**

S No.	Description of Service	Rupees
1.	Our professional charges towards receiving your instructions, drafting complete specification, forwarding the same for your inputs/approval, receiving your approval, preparing and filing provisional to complete application at the Indian Patent Office and reporting.	55,000.00

**Total amount payable to us 55,000.00**

Less : Official Fees as "Pure Agent" 0.00

Taxable Value 55,000.00

(Rupees Fifty Five Thousand and Zero paisa only)

For K & S Partners

Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

*Note: Recent change in regulations, effective July 1, 2017, imposes a GST @ 18% on fees paid to the government for services rendered. Clarification is awaited whether official fees paid to the Indian IP Office are subject to this tax. If such tax is payable, then we will raise a supplementary invoice in respect thereof*

GSTIN: **29AAFFK6118A1ZM** | PAN No.: **AAFFK6118A**

Payment terms: 30 days from date of Invoice:

RTGS/NEFT Details:

Beneficiary **K & S Partners**

Bank Name: **Axis Bank Ltd**

Address of Bank: **BANGALORE MAIN, NO.9,  
MG ROAD, BLOCK 'A', BANGALORE -560 001**

Account No.: **0090 10200 043078** | RTGS/NEFT IFSC: **UTIB0000009**

Please mail the cheque/draft to the  
following office address:

4121/B, 6th Cross, 19A Main, HAL II Stage(Ext.)  
Bangalore 560038, India

T: +91 80 4042 7900 | F: +91 80 4042 7901

accounts@knspartners.com | www.knspartners.com

Also at Gurgaon | Chennai | Hyderabad | Mumbai | New Delhi

Welcome GOPINATH ARENUR SHANKARARAJ Sign out

Controller General of Patents, Designs & Trade  
Marksसत्यमेव जयते  
G.A.R.6  
[See Rule 22(1)]  
RECEIPT

Docket No 54608

Date/Time 2017/08/31 12:18:16

To  
GOPINATH ARENUR SHANKARARAJ

Userid: knsblr5

K&S Partners, Intellectual Property Attorneys #4121/B, 6th  
Cross, 19A Main HAL II Stage [Extension]

## CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	201741030809	TEMP/E- 1/31483/2017-CHE	1600	28092	FORM 1	A MACHINE FOR MAKING FINGER MILLET FLOUR BALLS

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000297993	Online Bank Transfer	02806343108201750164	1600.00	1475001020000001

Total Amount : ₹ 1600


Amount in Words: Rupees One Thousand Six Hundred Only

Received from GOPINATH ARENUR SHANKARARAJ the sum of ₹ 1600 on account of Payment of fee for above  
mentioned Application/Forms.

\* This is a computer generated receipt, hence no signature required.

Print

[Home](#) [About Us](#) [Contact Us](#)

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

<b>FORM 1</b> <b>THE PATENTS ACT, 1970</b> (39 of 1970) & <b>THE PATENTS RULES, 2003</b> <b>APPLICATION FOR GRANT OF PATENT</b> [See sections 7, 54 & 135 and rule 20(1)]	<b>(FOR OFFICE USE ONLY)</b>  Application No.: ..... Filing Date: ..... Amount of Fee Paid: ..... CBR No.: ..... Signature: .....
---	---

**1. APPLICANT(S)**

Sr.	Name	Nationality	Address
1	Madhusudan Thimmegowda	India	C/o Department of Mechanical Engineering, SJB INSTITUTE OF TECHNOLOGY, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri, Bangalore – 560060, Karnataka, India.

**2. INVENTOR(S)**

Sr.	Name	Nationality	Address
1	Madhusudan Thimmegowda	India	C/o Department of Mechanical Engineering, SJB INSTITUTE OF TECHNOLOGY, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri, Bangalore – 560060, Karnataka, India.
2	Shashidhar	India	C/o Department of Mechanical Engineering, SJB INSTITUTE OF TECHNOLOGY, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri, Bangalore – 560060, Karnataka, India.
3	Suraindir Malhotra	India	C/o Department of Mechanical Engineering, SJB INSTITUTE OF TECHNOLOGY, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri, Bangalore – 560060, Karnataka, India.
4	Vinay V Kumar J	India	C/o Department of Mechanical Engineering, SJB INSTITUTE OF TECHNOLOGY, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri, Bangalore – 560060, Karnataka, India.
5	Veeranagouda B A	India	C/o Department of Mechanical Engineering, SJB INSTITUTE OF TECHNOLOGY, BGS Health and Education city, Uttarahalli Main Road, adjacent to Abhiman Studio, Kengeri, Bangalore – 560060, Karnataka, India.

**3. TITLE OF THE INVENTION: A MACHINE FOR MAKING FINGER MILLET FLOUR BALLS****4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORISED PATENT AGENT IN INDIA**

K&S PARTNERS Intellectual Property Attorneys 4121/B, 6th Cross, 19A Main, HAL II Stage (Extension), Bangalore 560038, Karnataka, India

Telephone No.: +91 (080) 40427900

Fax No.: +91 (080) 40427901

Mobile No.: .....


E-mail: bangalore@knspartners.com

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

Sr.	Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention
-----	---------	--------------------	-------------	-----------------------	------------------------

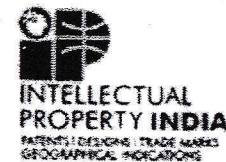
**6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION**

International Application Number	International Filing Date as Allotted
----------------------------------	---------------------------------------

  
 Head of the Department  
 Department of Mechanical Engineering  
 SJB Institute of Technology  
 Kengeri, Bengaluru-560 060

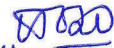


Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



#### Application Details

APPLICATION NUMBER	202111021983
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/05/2021
APPLICANT NAME	1. Mohammed Azam 2. Dr. Prakash B. Jadhavar 3. Dr. Parul Agarwal 4. Mr. Ankit Tyagi 5. Mrs. Shubhangi Chourasia 6. Mrs. Mohita Madaan 7. Mrs. Mohani Rajak 8. Manvi Sharma 9. Dr. Niraj Upadhyaya 10. Piyush Sharma 11. Dr. Shivappa H.A. 12. Dr. Chandrashekar K. 13. Dr. Shashi Raj K. 14. Dr. Pavithra G.
TITLE OF INVENTION	SYSTEM FOR INTEGRATED MONITORING AND MANAGEMENT OF AGRICULTURE AND RELATED PARAMETERS USING INTERNET OF THINGS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	vipri24@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vipri24@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	28/05/2021

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

#### Application Status




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



### Application Details

APPLICATION NUMBER	202141024097
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	31/05/2021
APPLICANT NAME	1 . Dr. K. Arun Vasantha Geethan, St. Joseph's Institute of Technology 2 . Dr.D.Sengeni, CK College of Engineering and Technology 3 . Dr.Sridevi Arumugam, Adithya Institute of Technology 4 . Dr.Lanitha.B, Karpagam Academy of Higher Education 5 . Venkataraman.K, KGISL Institute of Technology 6 . Rajat Srivastava, University of Petroleum and Energy Studies 7 . Dr. Chandrashekar K., SJB Institute of Tech 8 . Dr. Shivappa H.A., Dr. Ambedkar Institute of Technology 9 . Dr. Pavithra G, Dayananda Sagar College of Engg. (DSCE) 10 . Dr.I.Jerin Leno, DMI St John The Baptist University 11 . Dr. Glorindal Selvam, DMI St John The Baptist University 12 . M. Sathish Kumar, Hindusthan College of Engineering & Technology 13 . P.Kaviya Priya, Hindusthan College of Engineering and Technology 14 . T.Sakthi Sree, Hindusthan College of Engineering and Technology
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED CONSTRUCTION OF MECHANICALLY DEVELOPED MACHINE MOTION PREDICTION SYSTEM TO REDUCE WORKSITE HAZARDS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	kavgeeth@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/06/2021

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141024010 A

(19) INDIA

(22) Date of filing of Application :29/05/2021

(43) Publication Date : 18/06/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED AUTOMATED MATERIAL MANAGEMENT SYSTEM

(51) International classification

:G06Q0010060000,  
G06Q0010080000,  
G06K0009620000,  
G06Q0010000000,  
G06T0007100000

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

1)SHAIK RAHAMAT BASHA, Rajeev Gandhi Memorial College of Engineering and Technology

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nerawada 'X' Roads, Kurnool District, Nandyala, Andhra Pradesh 518501, India. Email: basha.ste@gmail.com Mobile No: 8919209298 Andhra Pradesh India

2)Moqdad Ibrahim Jassem, University Pendidikan Sultan Idris

3)Hameed Hasan Khalaf, Tikrit University

4)Abdulsattar Abdullah hamad, Madurai Kamaraj University

5)Rajat Srivastava, University of Petroleum and Energy Studies

6)Farook Nehad Abed, I'mam Aladham College

7)Dr. Chandrashekar K., SJB Institute of Tech

8)Dr. Shivappa H.A, Dr. Ambedkar Institute of Technology

9)Dr. Pavithra G, Dayananda Sagar College of Engg. (DSCE)

10)Dr.I.Jerin Leno, DMI St John The Baptist University

11)Dr. Glorindal Selvam, DMI St John The Baptist University

12)Venkatesh R, PSNA College of Engineering and Technology

13)Dr.M. Thangamani, Kongu Engineering College

(72)Name of Inventor :

1)SHAIK RAHAMAT BASHA, Rajeev Gandhi Memorial College of Engineering and Technology

2)Moqdad Ibrahim Jassem, University Pendidikan Sultan Idris

3)Hameed Hasan Khalaf, Tikrit University

4)Abdulsattar Abdullah hamad, Madurai Kamaraj University

5)Rajat Srivastava, University of Petroleum and Energy Studies

6)Farook Nehad Abed, I'mam Aladham College

7)Dr. Chandrashekar K., SJB Institute of Tech

8)Dr. Shivappa H.A, Dr. Ambedkar Institute of Technology

9)Dr. Pavithra G, Dayananda Sagar College of Engg. (DSCE)

10)Dr.I.Jerin Leno, DMI St John The Baptist University

11)Dr. Glorindal Selvam, DMI St John The Baptist University


12)Venkatesh R, PSNA College of Engineering and Technology

13)Dr.M. Thangamani, Kongu Engineering College

(57) Abstract :

Material management in jobsites comprises a managerial practice that devotes a notable exertion to confirm the existence of proper amounts of materials and effectively facilitates their transition process in and out of jobsites. In jobsites, where materials are being received, stored, and relocated, it is critical to endlessly keep updated records of their quantity during project period. Such updated records permit practitioners to successfully identify insufficient materials in a timely manner. This invention provides an artificial intelligence based automated material management system for an effective material management in the jobsites. This system automatically senses and piece target objects in point cloud models via a deep learning-based approach and then map the semantic values onto point cloud models for 3D semantic segmentation.

No. of Pages : 12 No. of Claims : 3

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060



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



## Application Details

APPLICATION NUMBER	202141024010
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	29/05/2021
APPLICANT NAME	1. SHAIK RAHAMAT BASHA, Rajeev Gandhi Memorial College of Engineering and Technology 2. Moqdad Ibrahim Jassem, University Pendidikan Sultan Idris 3. Hameed Hasan Khalaf, Tikrit University 4. Abdulsattar Abdullah hamad, Madurai Kamaraj University 5. Rajat Srivastava, University of Petroleum and Energy Studies 6. Farook Nehad Abed, Imam Aladham Gollege 7. Dr. Chandrashekar K., SJB Institute of Tech 8. Dr. Shivappa H.A, Dr. Ambedkar Institute of Technology 9. Dr. Pavithra G, Dayananda Sagar College of Engg. (DSCE) 10. Dr. I Jerin Leno, DMI St John The Baptist University 11. Dr. Glorinda Selvam, DMI St John The Baptist University 12. Venkatesh R, PSNA College of Engineering and Technology 13. Dr.M. Thangamani, Kongu Engineering College
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE BASED AUTOMATED MATERIAL MANAGEMENT SYSTEM
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	basha.ste@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/06/2021

## Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents



*[Signature]*  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060



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



Application Details	
APPLICATION NUMBER	202141018627
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/04/2021
APPLICANT NAME	1. Vaddempudi Koteswara Rao, Prakasam Engineering College 2. Dr. Pavan Tejasvi T, Dr. Ambedkar Institute of Technology 3. Dr. Ranjith V, Dr Ambedkar Institute of Technology 4. Dr. Karthik Raj KV, SJB Institute of Technology 5. Dr Bhanupratap R, Dr Ambedkar Institute of Technology 6. Dr Sidram, Sri Jayachamarajendra College of Engineering 7. Dr. Bharath V G, CMR University 8. Suresh P, Dayananda Sagar College of Engineering 9. Abhinandan Sarkar, Shree Ramkrishna Institute of Science and Technology 10. Dr. Lalit S Thakur, Parul University 11. Abhinav S, Amrita Viswa Vidyapeetm 12. Dr. Hasan Koten, Istanbul Medeniyet University
TITLE OF INVENTION	DESIGN AND DEVELOPMENT OF SOLAR POWER BASED ELECTRIC VEHICLE CHARGING BOOTHS
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	ingeniouz1@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	22/04/2021
PUBLICATION DATE (U/S 11A)	30/04/2021

*[Handwritten Signature]*  
06/07/2021

*[Handwritten Signature]*  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141018627 A

(19) INDIA

(22) Date of filing of Application :22/04/2021

(43) Publication Date : 30/04/2021

(54) Title of the invention : DESIGN AND DEVELOPMENT OF SOLAR POWER BASED ELECTRIC VEHICLE CHARGING BOOTHS

(51) International classification

:B60L0053300000,  
H02J0003000000,  
H02J0007350000,  
H02S0020300000,  
B60L0053140000

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

: NA

(61) Patent of Addition to Application Number:

NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

1)Vaddempudi Koteswara Rao,Prakasam Engineering College

Address of Applicant :Professor, Department of Electronics and Communication Engineering, Prakasam Engineering College, Kandukur Prakasam dt. Andhra Pradesh India 523105 Andhra Pradesh India

2)Dr. Pavan Tejasvi .T,Dr. Ambedkar Institute of Technology

3)Dr. Ranjith V ,Dr Ambedkar Institute of Technology

4)Dr.Karthik Raj K V,SJB Institute of Technology

5)Dr Bhanupratap R,Dr Ambedkar Institute of Technology

6)Dr Sidram,Sri Jayachamarajendra College of Engineering

7)Dr. Bharath V G,CMR University

8)Suresh P,Dayananda Sagar College of Engineering

9)Abhinandan Sarkar,Shree Ramkrishna Institute of Science and Technology

10)Dr. Lalit S Thakur,Parul University

11)Abhinav S,Amrita Viswa Vidyapeetm

12)Dr.Hasan Koten,Istanbul Medeniyet University

(72)Name of Inventor :

1)Vaddempudi Koteswara Rao,Prakasam Engineering College

2)Dr. Pavan Tejasvi .T,Dr. Ambedkar Institute of Technology

3)Dr. Ranjith V ,Dr Ambedkar Institute of Technology

4)Dr.Karthik Raj K V,SJB Institute of Technology

5)Dr Bhanupratap R,Dr Ambedkar Institute of Technology

6)Dr Sidram,Sri Jayachamarajendra College of Engineering

7)Dr. Bharath V G,CMR University

8)Suresh P,Dayananda Sagar College of Engineering

9)Abhinandan Sarkar,Shree Ramkrishna Institute of Science and Technology

10)Dr. Lalit S Thakur,Parul University

11)Abhinav S,Amrita Viswa Vidyapeetm

12)Dr.Hasan Koten,Istanbul Medeniyet University

(57) Abstract :

This invention focuses on charging booth for electric vehicle based on solar power. Most promising low cost renewable energy is offered by solar power which can be made available for charging of electric vehicles. Power flow of the system is tested by primary 9-bus distribution system using Newton Raphson method, where the voltage angle and the solar panel size is compared using DIgSILENT program at 100 kWh are obtained as 2.04% and 3.91% respectively. Analysis of charging station installation is done by 3 bus test system for distribution system of a solar electric vehicle with power flow analysis in time series. System power loss and maximum demand of energy is affected by the charging time of the EV. The simulation result obtains the size of the solar panel greater than 7.39 kWp. Solar power generated in the charging station is analyzed by PyPSA program shows that load expansion is allowed in the system whenever required.

No. of Pages : 11 No. of Claims : 6

(54) Title of the invention : STUDY OF THE BEHAVIOUR AND PERFORMANCE OF A SOLAR STEAM TURBINE BY CALCULATING THREE VARIANTS BASED ON THE AVAILABLE TECHNOLOGIES

(51) International classification :F01K0023100000,  
F22B0001000000,  
F03G0006060000,  
F03G0006000000,  
F02C0006180000

(31) Priority Document No :NA  
2) Priority Date :NA  
(3) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No :NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

## (71)Name of Applicant :

1)Dr. M.RAMARAO

Address of Applicant :ASSOCIATE PROFESSOR,  
DEPARTMENT OF MECHANICAL ENGINEERING,  
BHARATH INSTITUTE OF HIGHER EDUCATION AND  
RESEARCH, 173, AGHARAM ROAD, SELAIYUR, CHENNAI,  
TAMIL NADU- 600073 Tamil Nadu India

2)Dr. S. SENTHIL KUMAR

3)Mr. T CH ANIL KUMAR

4)Mr. N. LINGESHWARAN

5)Mr. NAGARAJA T. K

6)Mr. AMOL L. MANGRULKAR

7)Mr. R. SARWESWARAN

8)Mr. KANULLA KARTHIK

9)Dr. MOTI LAL RINAWA

10)Dr. SANJAY KUMAR. S. M

11)Mr. CHANNABASAV

12)Mr. PARTHASARATHY. K

## (72)Name of Inventor :

1)Dr. M.RAMARAO

2)Dr. S. SENTHIL KUMAR

3)Mr. T CH ANIL KUMAR

4)Mr. N. LINGESHWARAN

5)Mr. NAGARAJA T. K

6)Mr. AMOL L. MANGRULKAR

7)Mr. R. SARWESWARAN

8)Mr. KANULLA KARTHIK

9)Dr. MOTI LAL RINAWA

10)Dr. SANJAY KUMAR. S. M


11)Mr. CHANNABASAV

12)Mr. PARTHASARATHY. K

## (57) Abstract :

STUDY OF THE BEHAVIOUR AND PERFORMANCE OF A SOLAR STEAM TURBINE BY CALCULATING THREE VARIANTS BASED ON THE AVAILABLE TECHNOLOGIES This work examines solar thermal turbine cycle and combined cycle devices. It is required to compare the performance of solar steam turbine devices that use different steam generation technologies as well as to study how to control them. It is necessary to investigate the effect of the two different hybridization approaches on the operation of the combined cycle as well as to evaluate their performance. The analysis presented concerns the finding of the most appropriate way of controlling solar steam turbine devices and the comparison of the performance of the devices with thermodynamic and economic terms. In addition, combined cycle hybrid devices are studied and compared where solar heat is delivered to either the gas turbine cycle or the steam turbine cycle.

No. of Pages : 23 No. of Claims : 3

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/06/2021

(21) Application No.202141029268 A

(43) Publication Date : 16/07/2021

(54) Title of the invention : AN ENERGY-EFFICIENT THERMODYNAMICS CYCLE TO LIQUIFY BIOMETHANE ON A MICRO SCALE

(51) International classification

:C10L0003100000,  
F01K0025100000,  
F25J0001000000,  
B23K0001000000,  
A61M0037000000

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:PCT//

Filing Date

:01/01/1900

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

1)Mr. J.LEO AMALRAJ

Address of Applicant :ASSOCIATE PROFESSOR,  
DEPARTMENT OF MATHEMATICS, RMK COLLEGE OF  
ENGINEERING AND TECHNOLOGY, RSM NAGAR,  
PUDUVOYAL, TAMIL NADU- 601206. Tamil Nadu India

2)Mr. PARTHASARATHY. K

3)Mr. T CH ANIL KUMAR

4)Dr.A.PARTHIBAN

5)Dr. SANJAY KUMAR. S. M

6)NANDAGOPAL KALIAPPAN

7)Dr. VEERESH FUSKELE

8)Dr. MOTI LAL RINAWA

9)DHARMA TEJA LAKKU

10)Mr. AMOL L. MANGRULKAR

11)Dr. S S P M SHARMA B

12)Dr. M.RAMARAO

13)Dr.S.SATHISH

(72)Name of Inventor :

1)Mr. J.LEO AMALRAJ

2)Mr. PARTHASARATHY. K

3)Mr. T CH ANIL KUMAR

4)Dr.A.PARTHIBAN

5)Dr. SANJAY KUMAR. S. M

6)NANDAGOPAL KALIAPPAN

7)Dr. VEERESH FUSKELE

8)Dr. MOTI LAL RINAWA

9)DHARMA TEJA LAKKU

10)Mr. AMOL L. MANGRULKAR

11)Dr. S S P M SHARMA B


12)Dr. M.RAMARAO

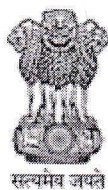
13)Dr.S.SATHISH

(57) Abstract :

The aim of this work is to propose an energy-efficient thermodynamic cycle which makes it possible to liquefy biomethane on a micro-scale (

No. of Pages : 25 No. of Claims : 4

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060



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

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




INTELLECTUAL  
PROPERTY INDIA  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

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

### Application Details

APPLICATION NUMBER	202141041759
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/09/2021
APPLICANT NAME	1 . Dr. R. J. GOLDEN RENJITH NIMAL 2 . Mr. AMOL L. MANGRULKAR 3 . Dr. SANJAY KUMAR S M 4 . Dr.G.M.SWAMY 5 . Dr.D.RAVI 6 . Dr.V.S.HARIHARA N 7 . Mr. SESHABATTAR PHANEENDRA 8 . Mr. NAGARAJA T. K. 9 . Dr. B.NAGESAWARA RAO 10 . Dr. MANOJ KUMAR SINGH 11 . Dr. MOTI LAL RINAWA
TITLE OF INVENTION	AN EXPERIMENTAL STUDY CARRIED OUT IN ORTHOGONAL SECTION ON THE TITANIUM ALLOY TI-6AL-4V USING THE KINEMAT
FIELD OF INVENTION	METALLURGY
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/10/2021

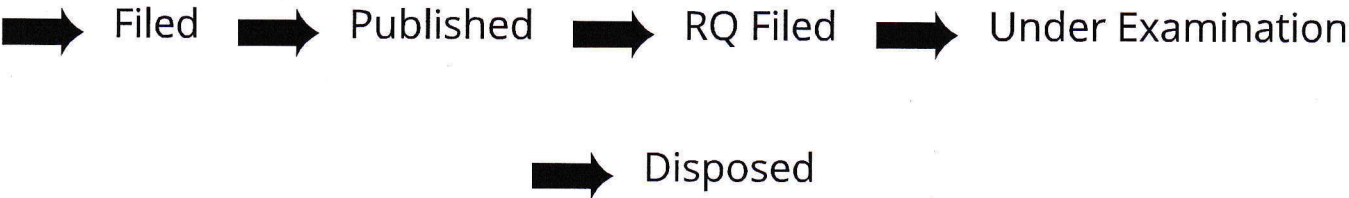
  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

Application Status

APPLICATION STATUS

# Awaiting Request for Examination

View Documents





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

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



INTELLECTUAL  
PROPERTY INDIA  
PATENTS | DESIGNS | TRADE MARKS  
GEOGRAPHICAL INDICATIONS

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

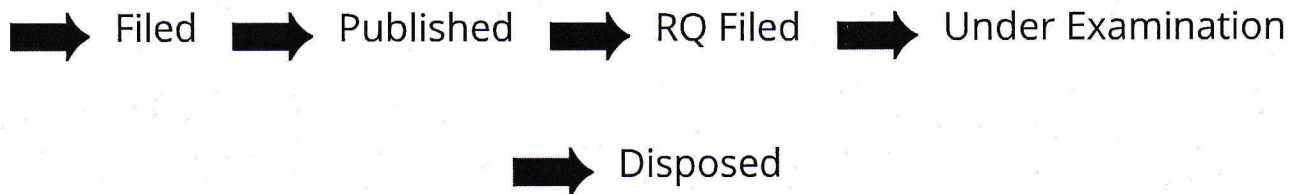
### Application Details

APPLICATION NUMBER	202241028397
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/05/2022
APPLICANT NAME	1 . Dr Gayatri Vaidya 2 . Dr. Ashok Kumar 3 . Dr. Devendra Kumar 4 . Dr. Sanjay Kumar S M 5 . Dr. Senthil Kumar S 6 . Surisetty Sreenivasulu 7 . Mr. Sadashiv Bellubbi 8 . Dr. Shailendra Singh Bhadauria 9 . Arghya Chakravorty 10 . Preetam Bhardwaj
TITLE OF INVENTION	PREPARATION METHOD FOR BIODIESEL UTILIZING WASTE CATERING GREASE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	esdiyeminfotech@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	27/05/2022

Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

## Application Status

APPLICATION STATUS

**Awaiting Request for Examination**[View Documents](#)

In case of any discrepancy in status, kindly contact [ipo-helpdesk@nic.in](mailto:ipo-helpdesk@nic.in)

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2022

(21) Application No.202241028397 A

(43) Publication Date : 27/05/2022

(54) Title of the invention : PREPARATION METHOD FOR BIODIESEL UTILIZING WASTE CATERING GREASE

(51) International classification :C11C0003000000, C11C0003100000, C10L0001020000, C10L0001190000, C10L0001230000  
(86) International Application No Filing Date :PCT// :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number Filing Date :NA :NA  
(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)Dr Gayatri Vaidya  
Address of Applicant :Department of Studies and Research in food technology, Davangere University, Shivagangothri, Davangere-577007 Davangere -----

2)Dr. Ashok Kumar  
3)Dr. Devendra Kumar  
4)Dr. Sanjay Kumar S M  
5)Dr. Senthil Kumar S  
6)Surisetty Sreenivasulu  
7)Mr. Sadashiv Bellubbi  
8)Dr. Shailendra Singh Bhadauria  
9)Arghya Chakravorty  
10)Preetam Bhardwaj

Name of Applicant : NA  
Address of Applicant : NA

(72)Name of Inventor :

1)Dr Gayatri Vaidya  
Address of Applicant :Department of Studies and Research in food technology, Davangere University, Shivagangothri, Davangere-577007 Davangere -----

2)Dr. Ashok Kumar  
Address of Applicant :Department of Mechanical Engineering, New Horizon College of Engineering Bangalore, outer ring road Mrathalli 560103 Mrathalli -----

3)Dr. Devendra Kumar  
Address of Applicant :Birla Institute of Applied Sciences, Bhimtal. Uttarakhand, PIN: 263136 Bhimtal -----

4)Dr. Sanjay Kumar S M  
Address of Applicant :Associate Professor, Department of Mechanical Engineering, SJB Institute of technology, Bengaluru -560060 Karnataka, India Bengaluru -----

5)Dr. Senthil Kumar S  
Address of Applicant :Professor, Department of Mechanical Engineering, RMK College of Engineering and Technology, RSM Nagar, Puduvoyal – 601 206 Puduvoyal -----

6)Surisetty Sreenivasulu  
Address of Applicant :FLAT NO-A411, AMULYA HEIGHTS APARTMENTS, SAI NAGAR COLONY KHUSAIGUDA, SECEUNDERABAD. PIN: 500062 SECEUNDERABAD -----

7)Mr. Sadashiv Bellubbi  
Address of Applicant :Near Kadasiddeshwar Temple, Post: Shirol Mudhol Tq Bagalkot Dt - 587313 Bagalkot - -----

8)Dr. Shailendra Singh Bhadauria  
Address of Applicant :Assistant Professor; Department of Industrial and Production Engineering; Dr. B. R. Ambedkar National Institute of Technology Jalandhar; G.T. Road Bypass; Jalandhar - 144011 Punjab, India Jalandhar -----

9)Arghya Chakravorty  
Address of Applicant :Department of Studies and Research in food technology, Davangere University, Shivagangothri, Davangere-577007 Davangere -----

10)Preetam Bhardwaj  
Address of Applicant :Department of Mechanical Engineering, New Horizon College of Engineering Bangalore, outer ring road Mrathalli PIN: 560103 Mrathalli -----

(57) Abstract :

In biodiesel using residual food and beverage oil of the present invention, first, residual food and beverage oil after dehydration, concentrated sulfuric acid and methanol are added to an esterification reaction tank in a weight ratio of 100: 1.8:15, and the reaction time is 78°C. 4h; then add the residual catalyzed esterified food and beverage fat, KOH and methanol in a weight ratio of 100:1.1:19 to the transesterification reaction tank at 68°C. The reaction time is 2h; then the biodiesel feedstock oil is obtained by water washing and distillation; so the following parts by weight are the modulated biodiesel composition: 980 parts biodiesel feedstock oil, 135 parts isopropanol, 17 parts diethylene glycol monobutyl ether, 1.8 parts isooctyl nitrate, 22 parts ether castor oil polyoxyethylene, 18 parts decylglycoside, dipropylene glycol methyl ether, 37 parts acetate, 35 parts polyoxyethylene sorbitan monooleate ether, 13 parts tetradecyl trimethyl ammonium bromide and 160 parts water. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3]

No. of Pages : 17 No. of Claims : 2

  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

**EFFICIENT ENGINEERS**

Efficient Engineers, #90, Building no 13, K H B Colony, Kengeri Satellite  
Town 3rd phase, Bengaluru- 560060. , Bengaluru, KA (29) 560060, IN  
+918028486739

efficient.engineer@gmail.com

GSTIN: 29BCUPS4782A1ZZ

**TAX INVOICE**

Issue Date:

Due Date:

PO Number:

PO Date:

Place of Supply:

Original C

EE-15

20 - 02 - 2

20 - 02 - 2

ACCT/70/201

21 - 08 - 2

KA

**Bill To****SJB INSTITUTE OF TECHNOLOGY**

The Principal, SJB INSTITUTE OF TECHNOLOGY No. 67, Uttarahalli Ma  
Main Road, Kengeri Bangalore-560060 , Bangalore, KA (29) 560060, IN

**Ship To**

The Principal, SJB INSTITUTE OF TECHNOLOGY No. 67, Uttarahalli Ma  
Road, Kengeri Bangalore-560060 , Bangalore, KA (29) 560060, IN

S.No	Item Description	HSN/SAC	Qty UoM	Price (₹)	Taxable Value (₹)	CGST (₹)	SGST (₹)	Amount
1	Tilting type melting furnace	9023	1.00 NOS	3,22,000.00	3,22,000.00	28,980.00 9%	28,980.00 9%	3,79,960.00
				<b>Total @18%</b>	<b>3,22,000.00</b>	<b>28,980.00</b>	<b>28,980.00</b>	<b>3,79,960.00</b>

Bank Name: CENTRAL BANK OF INDIA

Account Number: 3514457203

Branch Name: BANGALORE CITY

IFSC Code: CBIN0280850

**Total Taxable Value**

**Total Value (in figure)**

**Total Value (in words)**

**₹3,22,000.00**

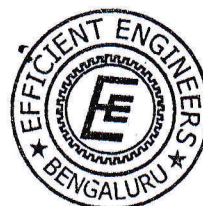
**₹3,79,960.00**

**₹ Three Lakh Seventy-nine Thousand Nine Hundred Sixty**

**Only**

**Terms & Conditions**

- Subject to Bangalore Jurisdictions.
- Our liability on the goods will cease once the goods delivered to the carriers.
- We are not responsible for any shortage; damage of goods that in transit.
- Interest at prevailing rates will be charged on unpaid bills after due date.



Provider Signature

Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

Received. *Srinivas*  
25/2/2020



# TAX INVOICE

Original Co  
EE-12

## EFFICIENT ENGINEERS

Efficient Engineers, #90, Building no 13, K H B Colony, Kengeri Satellite  
Town 3rd phase, Bengaluru- 560060. , Bengaluru, KA (29) 560060, IN  
+918028486739  
efficient.engineer@gmail.com  
GSTIN: 29BCUPS4782A1ZZ

Amount Due

₹1,22,130.00

Issue Date: 09 - Nov - 2  
Due Date: 09 - Nov - 2  
PO Number: SJB/IT/ACCT/70/2019  
PO Date: 21 - Aug - 2  
Place of Supply: KA

## Bill To

### SJB INSTITUTE OF TECHNOLOGY

The Principal, SJB INSTITUTE OF TECHNOLOGY No. 67, Uttarahalli  
Main Road, Kengeri Bangalore-560060 , Bangalore, KA (29) 560060, IN

## Ship To

The Principal, SJB INSTITUTE OF TECHNOLOGY No. 67, Uttarahalli Ma  
Road, Kengeri Bangalore-560060 , Bangalore, KA (29) 560060, IN

S.No	Item Description	HSN/SAC	Qty UoM	Price (₹)	Taxable Value (₹)	CGST (₹)	SGST (₹)	Amount
1	IMPACT TESTING MACHINE MODEL : IT-1.5, 15 JOULE WITH STD ACCESSORIES	9023	1 NOS	1,03,500.00	1,03,500.00	9,315.00 9%	9,315.00 9%	1,22,130.00
Total @18%					1,03,500.00	9,315.00	9,315.00	1,22,130.00

Bank Name: vijaya bank

Account Number: 144300301000098

Branch Name: kengeri

IFSC Code: VIJB0001443

Total Taxable Value

₹1,03,500

Total Value (in figure)

₹1,22,130

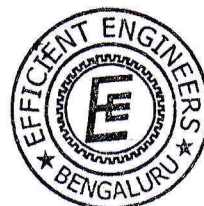
Total Value (in words) ₹ One Lakh Twenty-two Thousand One Hundred Thirty

## Terms & Conditions

- Subject to Bangalore Jurisdictions.
- Our liability on the goods will cease once the goods delivered to the carriers.
- We are not responsible for any shortage; damage of goods that in transit.
- Interest at prevailing rates will be charged on unpaid bills after due date.

## DETAILS FOR ONLINE TRANSFER

Name of the account: EFFICIENT ENGINEERS , A/C No: 144300301000098, Name of the bank: VIJAYA BANK of India,  
IFSC code: VIJB0001443, Branch: KENGERI-60



*[Signature]*

Provider Signature

*[Signature]*  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060

*[Signature]*  
13/3/2020

*[Signature]*  
13/3/2020



# TAX INVOICE

Original Copy

EE-11

## EFFICIENT ENGINEERS

Efficient Engineers, #90, Building no 13, K H B Colony, Kengeri  
Satellite Town 3rd phase, Bengaluru- 560060, , Bengaluru, KA (29)  
560060, IN  
+918028486739  
efficient.engineer@gmail.com  
GSTIN: 29BCUP54782A1ZZ

Amount Due

₹8,68,480.00

Issue Date: 04 - Nov - 20

Due Date: 04 - Nov - 20

PO Number: SJB/IT/ACCT/68/2019

PO Date: 21 - Aug - 20

Place of Supply: KA (29)

### Bill To

### SJB INSTITUTE OF TECHNOLOGY

The Principal, SJB INSTITUTE OF TECHNOLOGY No. 67, Uttarahalli  
Main Road, Kengeri Bangalore-560060, Bangalore, KA (29) 560060, IN

### Ship To

The Principal, SJB INSTITUTE OF TECHNOLOGY No. 67, Uttarahalli Main  
Road, Kengeri Bangalore-560060, Bangalore, KA (29) 560060, IN

S.No	Item Description	HSN/SAC	Qty UoM	Price (₹)	Taxable Value (₹)	CGST (₹)	SGST (₹)	Amount (₹)
1	Computerized Pin on Disc Apparatus	9023	1 NOS	7,36,000.00	7,36,000.00	66,240.00	66,240.00	8,68,480.00
						9%	9%	
Total @18%				7,36,000.00	66,240.00	66,240.00	8,68,480.00	

Bank Name: Vijaya bank

Account Number: 144300301000098

Branch Name: kengeri

IFSC Code: VIJB0001443

Total Taxable Value

₹7,36,000.00

Total Value (in figure)

₹8,68,480.00

Total Value (in words)

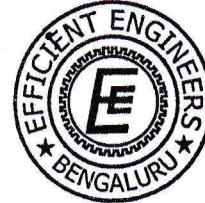
₹ Eight Lakh Sixty-eight Thousand Four Hundred Eighty

### Terms & Conditions

- Subject to Bangalore Jurisdictions.
- Our liability on the goods will cease once the goods delivered to the carriers.
- We are not responsible for any shortage; damage of goods that in transit.
- Interest at prevailing rates will be charged on unpaid bills after due date.

### BANK DETAILS FOR ONLINE TRANSFER

Name of the account: EFFICIENT ENGINEERS, A/C No: 144300301000098, Name of the bank: VIJAYA BANK of India,  
IFSC code: VIJB0001443, Branch: KENGERI-60



*[Signature]*  
Provider Signature

Received Boxes

*[Signature]*  
5/11/2019

*[Signature]*  
18/8/20

*[Signature]*  
18/8/2020

*[Signature]*  
Head of the Department  
Department of Mechanical Engineering  
SJB Institute of Technology  
Kengeri, Bengaluru-560 060



|| Jai Sri Gurudev ||  
Sri Adichunchanagiri Shikshana Trust (R)



## SJB Institute of Technology

(A Constituent of BGS & SJB Group of Institutions and Hospitals)

BGS Health and Education City, Dr. Vishnuvardhana Road, Kengeri, Bengaluru-560060



Approved by AICTE, New Delhi.  
Affiliated to Visvesvaraya Technological University, Belagavi.  
2(f) and 12(B) recognized by UGC, New Delhi.  
Accredited by NAAC. Accredited by NBA. Certified by ISO 9001-2015.




### Department of Electrical & Electronics Engineering

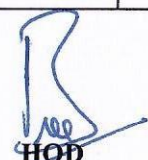
#### Patent Details

Sl. No.	Faculty Name	Patent ID	Title Of the Topic	Natio nal	Internati onal	Published Date	Status Of Application
1.	Dr.Babu N V	35782	Design And Development Of IoT And Ai Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published
2.	Mr.Prakyath D	202141022163a	A Power Quality And Demand Side Management System For A Smart Grid Using Machine Learning For Pro M	-	Yes	17/05/2021	Published
3.	Mrs.Vimala C S	202141033400a	An Auxiliary Railway Platform Bridge And An Iot Based Method To Operate The Same	-	Yes	06/08/2021	Published
4.	Dr.J P Sridhar	35782	Design And Development Of Iot And Ai Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published
5.	Dr.J P Sridhar	202111027550 A	Machine Learning Based Smart Grid Power System Integrated With Wireless Communication Networks	-	Yes	16/07/2021	Published
6.	Dr.J P Sridhar	202141029724 A	Artificial Intelligence Iot Based Respiration Rate, Oxygen Volume And Sleep Monitoring Wearable Device For Covid Patients Using Sensors	-	Yes	16/07/2021	Published
7.	Dr. M J Chandrashekar	35782	Design And Development Of Iot And Ai Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published

8.	Dr. Sandeep S R	35782	Design And Development Of Iot And Ai Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published
9.	Dr. Sandeep S R	2021103555	Machine Learning Based Energy Efficient Smart City Management	-	Yes	4/8/2021	Published
10.	Mrs. Hemalatha B K	35782	Design And Development Of Iot And Ai Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published
11.	Mrs. Tarakeshwari V	35782	Design And Development Of Iot And Ai Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published
12.	Mr. Kubera U	35782	Design And Development Of Iot And Ai Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published
13.	Dr. M J Chandrashekar	202141038532 A	A Clutch Lever Restriction Assembly	-	Yes	03/09/2021	Published
14.	Dr. M J Chandrashekar	L-109564/2021	An Unmanned Automatic Lawnmower Assembly		Yes	21/12/2021	Published
15.	Mrs. Prarthana J V	35782	Design and development of IOT and AI based Smart Inverter with Enhanced Power Quality	-	Yes	13/08/2021	Published
16.	Mr. Dwarakanath S K	35782	Design And Development Of IOT And AI Based Smart Inverter With Enhanced Power Quality	-	Yes	13/08/2021	Published
17.	Mrs. Rekha P S	202141049065 A	A Method for Controlling Acoustic Noise in Switched Reluctance Motor	-	Yes	26/11/2021	Published
18.	Mrs. Rekha P S	352801-001	Two wheeled tilting cum lifting hand truck	-	Yes	09/11/2021	Applied
19.	Dr. Mamatha Mahesh Gowda	202141049065 A	A Method for Controlling Acoustic Noise in Switched Reluctance Motor	-	Yes	26/11/2021	Published
20.	Dr. Mamatha Mahesh Gowda	352801-001	Two wheeled tilting cum lifting hand truck	-	Yes	09/11/2021	Applied

  
Co-ordinator  
Dr. Chandrashekar M J

Page 2 of 2

  
HOD  
Dr. Babu N V

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 16/07/2021

(21) Application No. 202141032073 A

(43) Publication Date : 13/08/2021

(54) Title of the invention : Design and Development of IOT and AI based Smart Inverter with Enhanced Power Quality

(51) International classification

:F02B0075020000,  
G01R0031000000,  
G06F0008200000,  
G06F0009300000,  
G06F0017100000

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(56) International Application No

:PCT//

Filing Date

:01/01/1900

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71) Name of Applicant :

1) Dr. Babu N V, SJB Institute of technology

Address of Applicant : Professor and HOD, Department of Electrical and Electronics Engineering, SJB Institute of technology - Bengaluru Karnataka India Karnataka India

2) Dr. Sandeep S R, SJB Institute of technology

3) Mrs. Hemalatha B K, SJB Institute of technology

4) Prakyath D, SJB Institute of technology

5) Dr. J P Sridhar, SJB Institute of technology

6) Kubera U, SJB Institute of technology

7) Deepthi D, SJB Institute of technology

8) Prarthana J V, SJB Institute of technology

9) Dwarakanath S K, SJB Institute of technology

10) Tarakeshwari V, SJB Institute of technology

11) Vimala C S, SJB Institute of technology

12) Dr. M J Chandrashekar, SJB Institute of technology

(72) Name of Inventor :

1) Dr. Babu N V, SJB Institute of technology

2) Dr. Sandeep S R, SJB Institute of technology

3) Mrs. Hemalatha B K, SJB Institute of technology

4) Prakyath D, SJB Institute of technology

5) Dr. J P Sridhar, SJB Institute of technology

6) Kubera U, SJB Institute of technology

7) Deepthi D, SJB Institute of technology

8) Prarthana J V, SJB Institute of technology

9) Dwarakanath S K, SJB Institute of technology

10) Tarakeshwari V, SJB Institute of technology

11) Vimala C S, SJB Institute of technology

12) Dr. M J Chandrashekar, SJB Institute of technology

(57) Abstract :

This invention has presented the design and development of a prototype multi-functional ES for controlling and managing the interface between a smart inverter and the electricity grid in a Smart Grid context based on IOT and AI. The design has focused upon the appropriate timing requirements for measurements defined in IEC 61000-4-30. These requirements have led to a data architecture design based on a set of critical temporary loops, where the various groups of equipment functions are processed: A half-cycle loop that directly processes the data acquisition for transient events or those of a highly random nature. A two-cycle loop, which has been implemented on this equipment in an original manner, which the team has termed quasi-stationary is used for rapid measurements with some stationarity, where the protection functions are processed. Finally, a 10-cycle loop dedicated to processing functions of purely stationary power quality parameters. The data exchange is carried out by two deterministic FIFO stacks, managed from the fastest half-cycle loop, and synchronized to two and ten cycles. It is important to emphasise the great functional capacity of the prototype at the Power Quality level, where it is able to endow the inverter with great added value, transforming it Power Quality Analyzer (PQA).

No. of Pages : 11 No. of Claims : 5

u skduth

SD

Dept. of EEE

S J B Institute of Technology

BGS Health & Education City,

Kengeri, Bengaluru-560 060. 35782

The Patent Office Journal No. 33/2021 Dated 13/08/2021



Government of India  
Ministry of Commerce & Industry  
Department of Industrial Policy & Promotion  
Controller General of Patents Design & Trade Marks

Online Filing Of Patents



Controller General of Patents, Designs & Trade  
Marks  
G. S.T. Road, Guindy, Chennai-600032  
Tel No. (091)(844) 22562081-84 Fax No. 044 22562066  
E-mail: [chennai-patent@ipc.in](mailto:chennai-patent@ipc.in)  
Web Site: [www.ipindia.gov.in](http://www.ipindia.gov.in)



C.A.R.6  
[See Rule 22(1)]  
RECEIPT



Docket No 61582

Date Time 2021/07/16 15:03:04

CBR Detail:

Sr No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E- 12/2010/2021-CHE	202141037973	1000	10000	FORM 9	
2	202141037973	TEMP E- 1.30071-2021-CHE	1000	10000	FORM 1	Design and Development of IOT and AI based Smart Inverter with Enhanced Power Quality



भारत सरकार / GOVERNMENT OF INDIA

कॉपीराइट कार्यालय / Copyright Office

बौद्धिक संपदा भवन, प्लॉट संख्या 32, सेक्टर 14, द्वारका, नई दिल्ली-110078 फोन: 011-28032496

Intellectual Property Bhawan, Plot No. 32, Sector 14, Dwarka, New Delhi-110078 Phone: 011-28032496

रसीद / Receipt



PAGE No : 1

To,

Harish-Sharma

B-1/482, street no.-4, Vijay Park, Maujpur--110053

RECEIPT NO : 32501

FILING DATE : 24/09/2021

BRANCH : Delhi

USER : harishvats

S.No	Form	Diary No.	Request No	Title	Amount (Rupees)
1	Form-XIV	23265/2021-CO/L	30329	Auto pilot self driving car using Embedded Artificial Intelligence	500
Amount in Words		Rupees Five Hundreds			500

PAYMENT MODE	Transaction Id	CIN
Online	C-0000033185	2409210020301

(Administrative Officer)

\*This is a computer generated receipt, hence no signature required.

\*Please provide your email id with every form or document submitted to the Copyright office so that you may also receive acknowledgements and other documents by email.

*SLR skduth*

*[Signature]*  
 HOD  
 Dept. of EEE  
 S J B Institute of Technology  
 BGS Health & Education City,  
 Kengeri, Bengaluru-560 060.

**FORM XIV**  
**APPLICATION FOR REGISTRATION OF COPYRIGHT**  
**[SEE RULE 70]**

To,

**The Registrar of Copyrights,**  
Copyright Office,  
Boudhik Sampada Bhawan, Plot No. 32,  
Sector 14, Dwarka, New Delhi-110075  
Phone: 011-25301202

Sir,

In accordance with section 45 of the Copyright Act, 1957 (14 of 1957), I hereby apply for registration of copyright and request that entries may be made in the Register of Copyrights as in the enclosed statement of Particulars' sent herewith in triplicate.

1. I also send herewith duly completed the statement of further particulars relating to the work **Literary works**
2. In accordance with rule 70 of the Copyright Rules, 2012, I have sent by pre-paid registered post copies of this letter and of the enclosed statement(s) to the other parties concerned, as shown below:

Name of Party	Address of Party	Date of Dispatch
1. Dr. Babu N V ✓	Professor & HOD, Department of EEE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060	
2. Dr. Sandeep S R ✓	Associate Professor, Department of EEE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060	
3. Dwarakanath SK ✓	Assistant Professor, Department of EEE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060	
4. Mrs. Pavithra G S	Assistant Professor, Department of CSE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060	

3. The prescribed fee has been paid, as per details below: ONLINE Mode

*SKDuth*

**HOD**  
Dept. EEE  
**SJB Institute of Technology**  
BGS Health & Education City,  
Kengeri, Bengaluru-560 060.

4. Communications on this subject may be addressed to:

**Dr. Babu N V**

Professor & HOD, Department of EEE,  
SJB Institute of Technology, Bengaluru, Karnataka, India, 560060

5. I hereby declare that to the best of my knowledge and belief, no person, other than to whom a notice has been sent as per paragraph 2 above has any claim or interest or dispute to my copyright of this work or to its use by me.

6. I hereby verify that the particulars given in this Form and the Statement of Particulars and Statement of Further Particulars are true to the best of my knowledge, belief and information and nothing has been concealed there from

7. **List of Enclosures:**

1. **Statement of Particulars (In Triplicate)**
2. **Statement of Further Particulars (In Triplicate)**

Place: Bengaluru

Date: **23-09-2021**

Yours faithfully



1. **Dr. Babu N V**
2. **Dr. Sandeep S R**
3. **Dwarakanath SK**
4. **Mrs. Pavithra G S**

**STATEMENT OF PARTICULARS**

(To be sent in triplicate)

1.	Registration number	
2.	Name, Address and Nationality of the Applicant	<b>1. Dr. Babu N V</b> Professor & HOD, Department of EEE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060,  <b>2. Dr. Sandeep S R</b> Associate Professor, Department of EEE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060,  <b>3. Dwarakanath SK</b> Assistant Professor, Department of EEE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060,  <b>4. Mrs. Pavithra G S</b> Assistant Professor, Department of CSE, SJB Institute of Technology, Bengaluru, Karnataka, India, 560060,
3.	Nature of the applicant's interest in the copyright of the work	<b>OWNER</b>
4.	Class and description of the work	<b>Literary Work</b>
5.	Title of the work	<b>A SYSTEM FOR AUTO PILOT SELF DRIVING CAR USING EMBEDDED ARTIFICIAL INTELLIGENCE</b>
6.	Language of the work	English
7.	Name, address and nationality of the author and, if the author is deceased, the date of his decease	N.A.
8.	Whether work is Published or Unpublished	Unpublished

9.	Year and country of first publication and name, address and nationality of the publishers	N.A.
10.	Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publisher	N.A.
11.	Names, address and nationalities of the owners of the various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignment and licenses, if any	N.A.
12.	Names, addresses and nationalities of other persons, if any, authorized to assign or license the rights comprising the copyright	N.A.
13.	If the work is an "artistic work", the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown)	N.A.
14.	If the work is an 'artistic work' which is used or is capable of being used in relation to any goods, the application shall include a certificate from the Registrar of Trade Marks in terms of the proviso to sub-section (1) of section 45 of the Copyright Act, 1957.]	N.A.
15.	If the work is an "artistic work" whether it is registered under the Designs Act 2000. If yes give details.	N.A.
16.	If the work is an "artistic work" capable of being registered as a design under the Designs Act 2000, whether it has been applied to an article through an industrial process and , if yes, the number of times it is reproduced.	NO
17.	Remarks, if any	N.A.

Place: Bengaluru

Date: 23-09-2021

Yours faithfully



1. Dr. Babu N V
2. Dr. Sandeep S R
3. Dwarakanath SK
4. Mrs. Pavithra G S

(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202141022163 A

(19) INDIA

(22) Date of filing of Application : 17/05/2021

(43) Publication Date : 11/06/2021

(54) Title of the invention : A POWER QUALITY AND DEMAND SIDE MANAGEMENT SYSTEM FOR A SMART GRID USING MACHINE LEARNING FOR PROVIDING EFFICIENT RESOURCE UTILIZATION AND THE METHOD THEREOF

(51) International classification	G06Q0050060000, H02J0013000000, G06Q0010060000, G06N0020000000, G06Q0010040000	(71)Name of Applicant : 1)Dr. Mallikarjunaswamy S Address of Applicant :JSS Academy of Technical Education, JSSATE-B, Campus, Dr.Vishnuvardhan Road, Srinivaspura-Post, Bengaluru 560 060, Karnataka, India Karnataka India 2)Dr. Siddesh G K
(31) Priority Document No	:NA	(72)Name of Inventor : 1)S, Mallikarjunaswamy
(32) Priority Date	:NA	2)G K Siddesh
(33) Name of priority country	:NA	3)N Sharmila
(86) International Application No	:NA	4)M Komala
Filing Date	:NA	5)H N, Mahendra
(87) International Publication No	:NA	6)D, Prakyath
(61) Patent of Addition to Application Number	:NA	7)D, Mahesh Kumar
Filing Date	:NA	8)K, Sathisha Shet
(62) Divisional to Application Number	:NA	9)N Mahesh Kumar
Filing Date	:NA	10)S Pooja
		11)M L, Umashankar
		12)V, Rekha
		13)K, Shashiraj

(57) Abstract :

Abstract: Title: A Power quality and demand side management System for a smart grid Using Machine Learning for providing efficient resource utilization and the method thereof Electricity plays a crucial role in different sectors of the nation including national security, economy, agriculture and healthcare. The design of the power system has been revolutionized by the incorporation of

3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141033400 A

(19) INDIA

(22) Date of filing of Application :26/07/2021

(43) Publication Date : 06/08/2021

(54) Title of the invention : AN AUXILARY RAILWAY PLATFORM BRIDGE AND AN IOT BASED METHOD TO OPERATE THE SAME

(51) International classification	:B62D0005040000, A63C0017120000, G06N0005040000, F16K0003020000, B23P0019020000	(71)Name of Applicant : 1)Dr. Kumutha D Address of Applicant :Department of ECE, SJB Institute of Technology, Kengeri, Bangalore, Karnataka, India 560060. Karnataka India
(31) Priority Document No	:NA	2)Dr. Sunitha Y N
(32) Priority Date	:NA	3)Dr. Lakshminarayana M
(33) Name of priority country	:NA	4)Vimala C.S
(86) International Application No	:NA	5)Dr. Baskaran S
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Dr. Kumutha D
(61) Patent of Addition to Application	:NA	2)Dr. Sunitha Y N
Number	:NA	3)Dr. Lakshminarayana M
Filing Date	:NA	4)Vimala C.S
(2) Divisional to Application Number	:NA	5)Dr. Baskaran S
Filing Date	:NA	

(57) Abstract :

The present invention provides a traverse passageway between the railway station platforms using an auxiliary bridge and IoT based method to operate the same. Said auxiliary bridge (41) comprises of a structural frame member (51), a plurality of sensor unit (61), a plurality of anti-climber (58a, 58b), a mounting support (73), a motor (71), a pinion gear (74), a plurality of hub (76, 78), a plurality of bearing (77, 79), a platform (80), a plurality of roller support (83), a sheet metal cover (87), hand rail (88) and a control unit (91) wherein said auxiliary bridge (41) is connected to an artificial intelligence server (101). FIG-1a

No. of Pages : 16 No. of Claims : 7

5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111027550 A

(19) INDIA

(22) Date of filing of Application :19/06/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : MACHINE LEARNING BASED SMART GRID POWER SYSTEM INTEGRATED WITH WIRELESS COMMUNICATION NETWORKS

(51) International classification	:G06Q0050060000, G06N0020000000, H04L0029080000, G06K0009320000, G01V0001000000	(71)Name of Applicant : 1)Asth Singh Kushwaha Address of Applicant :Assistant professor, Department of Electronics and Communication Engineering IET, Dr. Rammanohar Lohia Avadh University, Ayodhya Uttar Pradesh Uttar Pradesh India 2)Dr J P Sridhar 3)Divya R 4)Dr. Asha S Manek 5)Mr. Ronald Chiwariro 6)Shikha Kuchhal 7)Dr. Debdutta Barman Roy 8)G Johncy 9)Ashish Suryavanshi 10)Raghunandan Singh Baghel 11)Ms. Neha Singh 12)Mahesh Kumar A S
1) Priority Document No	:NA	(72)Name of Inventor : 1)Asth Singh Kushwaha,Dr. Rammanohar Lohia Avadh University 2)Dr J P Sridhar,SJB Institute of Technology 3)Divya R,PSG Institute of Technology and Applied Research 4)Dr. Asha S Manek,RV Institute of Technology and Management 5)Mr. Ronald Chiwariro,Jain University 6)Shikha Kuchhal,Jamia Millia Islamia 7)Dr. Debdutta Barman Roy,Brainware University 8)G Johncy,St.Xavier's Catholic College of Engineering 9)Ashish Suryavanshi,Vikram University 10)Raghunandan Singh Baghel,Vikram University 11)Ms. Neha Singh,Vikram University 12)Mahesh Kumar A S,PES College of Engineering
2) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

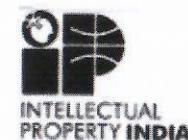
the current era, power grids are transformed into Smart Grids raising several challenges as penetration of smart devices in the existing power systems. Challenges are also posed on Information and Communication Technology due to these changes as it has to support services related to Smart Grids. In Smart Grid, power systems are integrated with Information and Communication Technology which has enabled distributed controls and real time services by the fusion of these technologies. In this invention, architecture of Smart Grid testbed is designed and developed by integrating algorithms of Artificial intelligence and real world wireless communication systems such that real time design requirements of Smart Grid testbed is met by this reconfigurable framework with stacking of full protocol in MAC layers and PHY layers. The proposed architecture has the reconfiguration property based on the network of wireless communication and advanced technologies of ICT which includes Machine Learning algorithm. A novel Smart Grid design is addressed with cross system interfacing that shows greater potential for evaluating power systems especially Smart Grids.

No. of Pages : 11 No. of Claims : 6



Government of India  
Ministry of Commerce & Industry  
Department of Industrial Policy & Promotion  
Controller General of Patents Design & Trade Marks

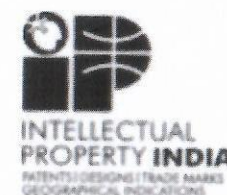
Online Filing Of Patents



Controller General of Patents, Designs & Trade  
Marks

राजपतेन्द्र जयसो  
G.A.R.6  
[See Rule 22(1)]  
RECEIPT

Docket No 61441



Date/Time 2021/06/19 23:07:08

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202111027550	TEMPE-1/30829/2021-DEL	1600	21535	FORM 1	MACHINE LEARNING BASED SMART GRID POWER SYSTEM INTEGRATED WITH WIRELESS COMMUNICATION NETWORKS
2	E-12/1193/2021/DEL	202111027550	2500	21535	FORM 9	---

6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141029724 A

(19) INDIA

(22) Date of filing of Application :02/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE IOT BASED RESPIRATION RATE, OXYGEN VOLUME AND SLEEP MONITORING WEARABLE DEVICE FOR COVID PATIENTS USING SENSORS

(51) International classification :A61B0005000000,  
A61B0005080000,  
A61B0005113000,  
A61B0005087000,  
A61B0005020500  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)Santosh M Nejakar

Address of Applicant :NEJAKAR TECHNOLOGIES, Haveri  
Siddadevanagar, Near Head Post Haveri Karnataka India 581110  
Karnataka India

2)PRATHIK JAIN S

3)DR. SAVITHA S K

4)DR. ANITA PANKAJ PATIL

5)RAJASHEKHAR U

6)DR. J. P. SRIDHAR

(72)Name of Inventor :

1)Santosh M Nejakar

2)PRATHIK JAIN S

3)DR. SAVITHA S K

4)DR. ANITA PANKAJ PATIL

5)RAJASHEKHAR U

6)DR. J. P. SRIDHAR

7)DR. RAJASHEKARGOUDA C PATIL

(57) Abstract :

Current methods for continuous respiration monitoring such as respiratory inductive or optoelectronic plethysmography are limited to clinical or research settings; most wearable systems reported only measures respiration rate. Here we introduce a wearable sensor capable of simultaneously measuring both respiration rate , volume with high delity and sleep. Our disposable respiration sensor with a Band-Aid like formfactor can measure both respiration rate and volume by simply measuring the local strain of the ribcage and abdomen during breathing. We demonstrate that both metrics are highly correlated to measurements from a medical grade continuous spirometer on participants at rest. Additionally, we also show that the system is capable of detecting respiration under various ambulatory conditions. Because these low-powered piezo-resistive sensors can be integrated with wireless Bluetooth units, they can be useful in monitoring patients with chronic respiratory diseases in everyday settings.

No. of Pages : 4 No. of Claims : 5



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



### Application Filing Receipt

**Government of India  
Patent Office**  
Intellectual Property Office Building,  
G.S.T. Road, Guindy,  
Chennai - 600032  
Phone- 044-22502081-84  
Fax: 044-22502066  
e-mail: chennai-patent@nic.in

**CBR Number : 24098**

**CBR date: 02-07-2021**

Application Type: ORDINARY APPLICATION  
Priority Number:  
Priority Date:  
Priority Country: Not Selected

To,

Santosh M Nejakar

Santosh M Nejakar NEJAKAR TECHNOLOGIES, Haveri Siddadevanagar, Near Head Post Haveri Karnataka India 581110

Received documents purporting to be an application for patent numbered 202141029724 dated 02-07-2021 by Santosh M Nejakar of NEJAKAR TECHNOLOGIES, Haveri Siddadevanagar, Near Head Post Haveri Karnataka India 581110 relating to Artificial Intelligence IOT based Respiration rate, Oxygen volume and Sleep monitoring wearable device for COVID Patients using sensors together with the Complete and fee(s) of ₹1600 ( One Thousand Six Hundred only)

**Note:**

1. In case of Patent Application accompanied by a Provisional Specification, a complete Specification should be filed within 12 months from the date of filing of the Provisional Specification, failing which the application will be deemed to be abandoned under Section 9(1) of the Patent Act, 1970.
2. You may withdraw the application at any time before the grant of patent. If you wish so. If, in addition to withdrawal, you also wish to prevent the publication of application in the Patent Office Journal, the application should be withdrawn within fifteen months from the date of priority or date of filing, whichever is earlier.
3. If not withdrawn, your application will be published in the Patent Office Journal after eighteen months from the date of priority or date of filing, whichever is earlier.
4. If you wish to get your application examined, you should file a request for examination in Form-18 within 48 months from the date of priority or date of filing, whichever is earlier, failing which the application will be treated as withdrawn by the applicant under Section 11(B)(4) of the Patent Act, 1970.

(For Controller of Patents)

To Patent File MJC



सत्यमेव जयते

## Extracts from the Register of Copyrights



Dated : 21/12/2021

1. Registration Number : **L-109564/2021**
2. Name, address and nationality of the applicant :  
MRS. V.SARALA , ASSISTANT PROFESSOR, DEPARTMENT  
OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI  
COLLEGE OF ENGINEERING, CHENNAI 600092-  
INDIAN  
DR RAVI KUMAR A V , ASSOCIATE PROFESSOR,  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67,  
BGS HEALTH AND EDUCATION CITY, KENGERI,  
BENGALURU-60-  
INDIAN  
DR.M J CHANDRASHEKAR , ASSOCIATE PROFESSOR,  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67,  
BGS HEALTH AND EDUCATION CITY, KENGERI,  
BENGALURU-60-  
INDIAN  
MR.J JABINTH , ASSISTANT PROFESSOR,  
MECHANICAL ENGINEERING,  
RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-  
INDIAN  
DR. SUPREETH H S G , ASSOCIATE PROFESSOR,  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67,  
BGS HEALTH AND EDUCATION CITY, KENGERI,  
BENGALURU-60-  
INDIAN
3. Nature of the applicant's interest in the copyright of the work : OWNER
4. Class and description of the work : LITERARY/ DRAMATIC WORK AN UNMANNED  
AUTOMATIC LAWNMOWER ASSEMBLY
5. Title of the work : AN UNMANNED AUTOMATIC LAWNMOWER ASSEMBLY
6. Language of the work : ENGLISH
7. Name, address and nationality of the author and if the author is  
deceased, date of his decease :  
MRS. V.SARALA , ASSISTANT PROFESSOR, DEPARTMENT  
OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI  
COLLEGE OF ENGINEERING, CHENNAI 600092-  
INDIAN  
  
DR RAVI KUMAR A V , ASSOCIATE PROFESSOR,  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67,  
BGS HEALTH AND EDUCATION CITY, KENGERI,  
BENGALURU-60-  
INDIAN  
  
DR.M J CHANDRASHEKAR , ASSOCIATE PROFESSOR,  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67,  
BGS HEALTH AND EDUCATION CITY, KENGERI,  
BENGALURU-60-  
INDIAN  
  
MR.J JABINTH , ASSISTANT PROFESSOR,  
MECHANICAL ENGINEERING,  
RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-  
INDIAN  
  
DR. SUPREETH H S G , ASSOCIATE PROFESSOR,  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO.67,  
BGS HEALTH AND EDUCATION CITY, KENGERI,  
BENGALURU-60-  
INDIAN
8. Published or unpublished : UNPUBLISHED
9. First publication and name, address and  
publisher : N.A.
10. Years of subsequent publications, if any, and names,  
addresses and nationalities of the publishers : N.A.



DEPUTY REGISTRAR OF COPYRIGHTS

6  
25/12/21

35/12/2021

11 Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any.

MRS. V SARALA, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI COLLEGE OF ENGINEERING, CHENNAI 600092, INDIAN  
DR RAVI KUMAR A V, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO 67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60, INDIAN  
DR M J CHANDRASHEKAR, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO 67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60, INDIAN  
MR J JADINTH, ASSISTANT PROFESSOR, MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-INDIAN  
DR. SUPREETH H S G, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO 67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60, INDIAN

12 Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

MRS. V SARALA, ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MEENAKSHI COLLEGE OF ENGINEERING, CHENNAI 600092, INDIAN  
DR RAVI KUMAR A V, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO 67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60, INDIAN  
DR M J CHANDRASHEKAR, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO 67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60, INDIAN  
MR J JADINTH, ASSISTANT PROFESSOR, MECHANICAL ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM-INDIAN  
DR. SUPREETH H S G, ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SJB INSTITUTE OF TECHNOLOGY, NO 67, BGS HEALTH AND EDUCATION CITY, KENGERI, BENGALURU-60, INDIAN

13 If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).

N.A.

14 If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (1) of Section 45 of the Copyright Act, 1957.

N.A.

15 If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.

N.A.

16 If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000, whether it has been applied to an article though an industrial process and, if yes, the number of times it is reproduced.

N.A.

17 Remarks, if any

Diary Number : 20571/2021-CO/L

Date of Application : 26/08/2021

Date of Receipt : 26/08/2021



  
DEPUTY REGISTRAR OF COPYRIGHTS

Diary Number : 20571/2021-CO/L  
Ministry of Commerce & Industry  
Department For Promotion of Industry & Internal Trade  
**Copyright Office**  
(Tel: 011--28032496)



Boudhik Sampada Bhawan,  
Plot No. 32, Sector 14, Dwarka  
New Delhi-110075  
Dated :21/12/2021

To,  
MRS. V.SARALA  
ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING,  
MEENAKSHI COLLEGE OF ENGINEERING, CHENNAI 600092 ,

**Subject :** Copyright Registration Certificate - forwarding of.

With reference to your application dated 26/08/2021, I have the honour to send herewith a copy of the extract from the Register of Copyrights with regard to the work

**AN UNMANNED AUTOMATIC LAWNMOWER ASSEMBLY** particulars of which have been entered in the Register of Copyrights.

Kindly acknowledge receipt of this letter.

Yours faithfully

**Deputy Registrar of Copyrights**

le  
30/12/21  
R  
30/12/2021



Australian Government

IP Australia

9

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021103555

The Commissioner of Patents has granted the above patent on 4 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

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

F Helen Sha diana of Assistant professor, PG department of social work, Shrimathi Devkunvar Nanalal Bhatt Vaishnav collegeforwomen,Chromepet Chennai, Tamilnadu 600044 India

M. Murali of Associate Professor, Dept. of EEE, KSRM College of Engineering Kadapa Andhra Pradesh 516003 India

Bhubaneswari Bisoyi of Assistant Professor, FacultyofManagement, Sri Sri University Cuttack Odisha 754006 India

Selva kumar S of Assistant Professor, ComputerScience&Engg, B.M.S college of Engineering, Bull Temple Basavana gudi, Bengaluru Karnataka 560019 India

Ankita Tiwari of Assistant Professor, Department of Mathematics Koneru Lakshmaiah Education Foundation Greenfields,Vaddeswaram, Guntur(A.P.) 522502 India

Sandeep S R of Associate Professor, Dept.of ElectricEngg, SJB Institute of Technology Bengaluru Karnataka 560060 India

Madhu B P of Assistant Professor, School of Mechanical Engineering REVA University, Rukmini Knowledge Park Kattigenahalli, Bangalore, Karnataka 560064 India

Sumanta Bhattacharya of Research Scholar, MaulanaAbdulKalam Azad, University ofTechnology, BF block, Sector1 Bidhannagar, Kolkata West Bengal 700064 India

Suresh Subramanian of Assistant Professor, Multimedia Sciences, Dept-College of IT, Ahlia University Manama Kingdom of Bahrain 10878 India

Emmanuel Babu Pukkunnen of Mar Athansius College of Engineering, Department of Electrical&ElectronicsEngg College P.O, Kothamangalam Kerala 686666 India

P. JenoPaul of Dept.of Electrical and Electronics Engg., AdiShankara Institute of Engineering and Technology Kalady,Ernakulam Kerala 683574 India

Ahmed Mateen of Lecturer, Department of Computer Science, University of Agriculture Faisalabad 38000 Pakistan

**Title of invention:**

MACHINE LEARNING BASED ENERGY EFFICIENT SMART CITY MANAGEMENT

**Name of inventor(s):**

diana, F. Helen Sha; Murali, M.; Bisoyi, Bhubaneswari; S., Selva kumar, Tiwari, Ankita; S. R., Sandeep; B. P., Madhu; Bhattacharya, Sumanta; Subramanian, Suresh; Pukkunnen, Emmanuel Babu; JenoPaul, P. and Mateen, Ahmed



Dated this 4<sup>th</sup> day of August 2021

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right



Australian Government

IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021103555

Term of Patent:

Eight years from 23 June 2021

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 4<sup>th</sup> day of August 2021

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right

13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 25/08/2021

(21) Application No. 202141038532 A

(43) Publication Date : 03/09/2021

(54) Title of the invention : A CLUTCH LEVER RESTRICTION ASSEMBLY

(51) International classification : A61B0090000000, B60R0025000000, A61B0017000000, F02N0011100000, H04L0001160000

(31) Priority Document No : NA

(32) Priority Date : NA

(33) Name of priority country : NA

(86) International Application No : NA

Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA

Filing Date : NA

(62) Divisional to Application Number : NA

Filing Date : NA

(71) Name of Applicant :

1) Dr. Pasupuleti Subrahmanya Ranjit  
Address of Applicant : Professor, Dept. of Mech. Engg.,  
Aditya Engineering College (A), Surampalem 533 437, E G Dist.,  
A.P. Andhra Pradesh India

2) Dr. G Sreeramulu Mahesh  
3) G M SURENDRANATHA  
4) Dr. M J Chandrashekar  
5) Kumar Reddy Cheepati  
6) Dr. N. Samanvita  
7) Dr. S B Mohan  
8) Dr. Prasanth Venkatareddy  
9) S Chandra Sekhar  
10) Dr. M. Sreenivasa Reddy

(72) Name of Inventor :

1) Dr. Pasupuleti Subrahmanya Ranjit  
2) Dr. G Sreeramulu Mahesh  
3) G M SURENDRANATHA  
4) Dr. M J Chandrashekar  
5) Kumar Reddy Cheepati  
6) Dr. N. Samanvita  
7) Dr. S B Mohan  
8) Dr. Prasanth Venkatareddy  
9) S Chandra Sekhar  
10) Dr. M. Sreenivasa Reddy

(57) Abstract :

Present invention relates to a vehicle safety method ensuring the vehicle does not move unless a supporting stand is lifted up. More particularly, the invention relates to gear based lever operated clutch restriction system to be installed in a vehicle, to make sure that the clutch does not operate when supporting stand of the vehicle is in downwards direction. When the supporting stand is in downward direction i.e. in ON condition, lever attached to the gear train will restrict the clutch movement. It is preferred that the shaft, gear, gear trains and lever are made up of Stainless Steel to provide robust system.

No. of Pages : 26 No. of Claims : 8

4

**FORM 2**  
**THE PATENTS ACT, 1970**  
**(39 OF 1970)**  
**AND**  
**THE PATENT RULES, 2003**  
**COMPLETE SPECIFICATION**  
**(See section 10 and rule 13)**

**A Clutch Lever Restriction Assembly**

<b>Name of Applicant</b>	<b>Nationality</b>	<b>Address</b>
Dr. Pasupuleti Subrahmanya Ranjit	Indian	Professor, Dept. of Mech. Engg., Aditya Engineering College (A), Surampalem – 533 437, E G Dist., A.P.
Dr. G Sreeramulu Mahesh	Indian	Professor, EEE, SRI VENKATESWARA ENGINEERING COLLEGE, Karakambadi Road, Tirupati - 517 507
G M SURENDRANATHA	Indian	Assistant Professor, Sree Vidyanikethan Engineering College (Autonomous), Sree Sainath Nagar, Tirupati - 517102
Dr. M J Chandrashekar	Indian	Associate Professor, Department of Electrical and Electronics engineering, SJB Institute of Technology, No.67, BGS Health & Education City, Dr.Vishnuvardhan Rd, Kengeri, Bengaluru, Karnataka 560060
Kumar Reddy Cheepati	Indian	Assistant Professor, EEE, KSRRM College of Engineering (Autonomous), Kadapa, Andhra Pradesh
Dr. N. Samanvita	Indian	Associate Professor, Nitte Meenakshi Institute of Technology, Yelahanka Bangalore 560064
Dr. S B Mohan	Indian	Professor, Department EEE, Sri Venkateswara Engineering College, Tirupati Road, Chittoor – 517127, Andhra Pradesh India
Dr. Prasanth Venkatareddy	Indian	Associate Professor, Department of Electrical and Electronics Engineering, Nitte Meenakshi Institute of Technology, Post Box No. 6429, Yelahanka, Bengaluru, Karnataka 560064
S Chandra Sekhar	Indian	Research Scholar, Department of Electrical Engineering, Bhagwant University, Ajmer, Rajasthan-305004
Dr. M. Sreenivasa Reddy	Indian	Professor & Principal, Aditya Engineering College (A), Surampalem – 533 437, E G Dist., A.P.

The following specification particularly describes the invention and the manner in which it is to be performed.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/10/2021

(21) Application No.202141049065 A

(43) Publication Date : 26/11/2021

(54) Title of the invention : A METHOD FOR CONTROLLING ACOUSTIC NOISE IN SWITCHED RELUCTANCE MOTOR

(51) International classification :H02P0021300000, H02P0025098000, G05B0013020000, H02P0025092000, H02K0019100000  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)REKHA P S ✓

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

2)Dr. MAMATHA MAHESH GOWDA ✓

3)Dr. PADMAJA VENUGOPAL

4)Dr. VIJAYAKUMAR T

5)ROOPA D R

6)Dr. S. K. UMA

7)Dr. ROOPA

8)VIMALA C S ✓

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1) REKHA P S

Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

2)Dr. MAMATHA MAHESH GOWDA

Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

3)Dr. PADMAJA VENUGOPAL

Address of Applicant :PROFESSOR, DEPARTMENT OF MATHEMATICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

4)Dr. VIJAYAKUMAR T

Address of Applicant :PROFESSOR, DEPT. OF ELECTRONICS AND COMMUNICATION SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

5)ROOPA D R

Address of Applicant :ASSISTANT PROFESSOR DEPT.OF PHYSICS SJBIT, BANGALURU, KARNATAKA, INDIA - 560060. -----

6)Dr. S. K. UMA

Address of Applicant :PROFESSOR AND HEAD DEPT.OF MATHEMATICS, SIR. MVIT, BENGALURU, KARNATAKA, INDIA, 560 085 -----

7)Dr. ROOPA

Address of Applicant :ASSOCIATE PROFESSOR DEPT.OF MATHEMATICS, GATE, BANGALORE, KARNATAKA, INDIA, 560098 -----

8)VIMALA C S

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALURU, KARNATAKA, INDIA - 560060. -----

(57) Abstract :

The present invention provides an artificial raindrop algorithm based controller for direct torque control to reduce maximum torque ripple to attain minimum acoustic noise in switched reluctance motor. Said direct torque control (21) consists of an artificial raindrop algorithm based controller (22) and proportional integral controller (23). The method for controlling acoustic noise consists of providing input data (13a) and determining error value from said input data (13a) using reference unit (15). Further, determining the proportional gain and integral gain for proportional integral controller (23) and providing control measures accordingly.

No. of Pages : 21 No. of Claims : 5

The Patent Office Journal No. 48/2021 Dated 26/11/2021

56379

Late Submission

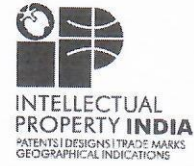
HOD  
Dept. of EEE  
S J B Institute of Technology  
BGS Health & Education City,  
Kengeri, Bengaluru - 560060.  
17/11/22

Controller General of Patents, Designs & Trade Marks  
 CP-2, Sector V, Salt Lake City, Kolkata-700091  
 Tel No. (091)(033) 23671945-46 Fax No. 033 23671988  
 E-mail: kolkata-patent@nic.in  
 Web Site: www.ipindia.gov.in



सत्यमेव जयते

G.A.R.6  
 [See Rule 22(1)]  
 RECEIPT



Date/Time 09/11/2021

Jyotiraman De A-704, Kamalraj Parijat,  
 Alandi Road, Dighi

User Code: jd.dinpa

User Name: Jyotiraman De

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Fee Payment	Remarks
1	352801-001	12-00	1000	209596	Full	Two Wheeled Tilting Cum Lifting Hand Truck
2	352802-001	12-00	1000	209596	Full	Two Wheeled Barrel Moving Cum Pouring Hand Truck
3	352803-001	12-00	1000	209596	Full	Two Wheeled Moving Cum Relocating Hand Truck

TransactionID	Payment Mode	Indian Identification Number	Amount Paid	Head of A/C No.
D-0000035749	Online Bank Transfer	0911210000668	3000.00	1475001020000001

Total Amount : ₹ 3000

Amount in Words: Rupees Three Thousand Only

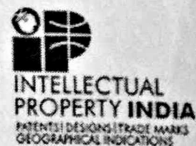
Received from Jyotiraman De the sum of ₹ 3000 on account of Payment of fee for above mentioned Application/Forms.

\* This is a computer generated receipt, hence no signature required.

[Print](#)
[Home](#)



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



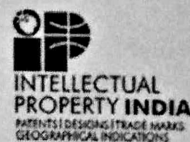
Application Details	
APPLICATION NUMBER	202141022963
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	23/05/2021
APPLICANT NAME	1 . Shaik Mohammed Rafi 2 . Dr.Purnendu Shekhar Pandey 3 . G. Venkata Ramana Reddy 4 . Dr Varun V L 5 . Mr. Sankararao Majji 6 . Dr. Harikumar Pallathadka 7 . Dr.J Suresh Goud 8 . G.K.Jakir Hussain 9 . Dr.Manoranjana Dash 10 . Dr Balajee Maram 11 . Kaviyaraj R
TITLE OF INVENTION	A Novel Data Security System using Hybrid Cloud Computing
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	kaviyaraj.r@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	11/06/2021

Signature of the applicant  
[Dr. Varun V.L.]

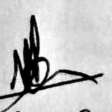
HOD  
Dr. Padmaja Venugopal, Ph.D.  
Professor and Head  
Department of Mathematics  
S.J.B. Institute of Technology  
# 67, BGS Health & Education City,  
Uttarahalli Road, Kengeri, Bangalore-60.

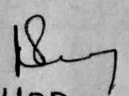


Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India



Application Details	
APPLICATION NUMBER	202141019068
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/04/2021
APPLICANT NAME	1 . Damaraju Sri Sai Satyanarayana 2 . Dr ANANDHI MEENA B 3 . Dr.S.THENAPPAN 4 . Vikas Mendi 5 . Dr Yerram Srinivas 6 . Dr Varun V L 7 . Dr. Harikumar Pallathadka 8 . DR.V.KISHEN AJAY KUMAR 9 . S.Nithya 10 . Mohammad Shabaz 11 . Mr. Sankararao Majji 12 . Kaviyaraj
TITLE OF INVENTION	DESIGN OF N-BY-1 RECTANGULAR PATCH ANTENNA FOR 2.45 GHZ AND 5 GHZ GEOMETRY
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	kaviyaraj.r@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	07/05/2021

  
Signature of the applicant  
[Dr. Yerram. V.L.]

  
HOD  
Dr. Padmaja Venugopal, Ph.D.  
Professor and Head  
Department of Mathematics  
S.J.B. Institute of Technology  
# 67, BGS Health & Education City,  
Uttarahalli Road, Kengeri, Bangalore-60.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141049065 A

(19) INDIA

(22) Date of filing of Application :27/10/2021

(43) Publication Date : 26/11/2021

(54) Title of the invention : A METHOD FOR CONTROLLING ACOUSTIC NOISE IN SWITCHED RELUCTANCE MOTOR

(51) International classification :H02P0021300000, H02P0025098000, G05B0013020000, H02P0025092000, H02K0019100000  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)REKHA P S

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

2)Dr. MAMATHA MAHESH GOWDA

3)Dr. PADMAJA VENUGOPAL

4)Dr. VIJAYAKUMAR T

5)ROOPA D R

6)Dr. S. K. UMA

7)Dr. ROOPA

8)VIMALA C S

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1) REKHA P S

Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

2)Dr. MAMATHA MAHESH GOWDA

Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

3)Dr. PADMAJA VENUGOPAL

Address of Applicant :PROFESSOR, DEPARTMENT OF MATHEMATICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

4)Dr. VIJAYAKUMAR T

Address of Applicant :PROFESSOR, DEPT. OF ELECTRONICS AND COMMUNICATION SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

5)ROOPA D R

Address of Applicant :ASSISTANT PROFESSOR DEPT.OF PHYSICS SJBIT, BANGALURU, KARNATAKA, INDIA - 560060. -----

6)Dr. S. K. UMA

Address of Applicant :PROFESSOR AND HEAD DEPT.OF MATHEMATICS, SIR. MVIT, BENGALURU, KARNATAKA, INDIA, 560 085 -----

7)Dr. ROOPA

Address of Applicant :ASSOCIATE PROFESSOR DEPT.OF MATHEMATICS, GATE, BENGALORE, KARNATAKA, INDIA, 560098 -----

8)VIMALA C S

Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALURU, KARNATAKA, INDIA - 560060. -----

(57) Abstract :

The present invention provides an artificial raindrop algorithm based controller for direct torque control to reduce maximum torque ripple to attain minimum acoustic noise in switched reluctance motor. Said direct torque control (21) consists of an artificial raindrop algorithm based controller (22) and proportional integral controller (23). The method for controlling acoustic noise consists of providing input data (13a) and determining error value from said input data (13a) using reference unit (15). Further, determining the proportional gain and integral gain for proportional integral controller (23) and providing control measures accordingly.

No. of Pages : 21 No. of Claims : 5

The Patent Office Journal No. 48/2021 Dated 26/11/2021

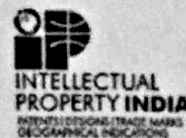
56379

*Signature of the applicant*  
(Dr. Padmaja Venugopal)

*Signature*  
Dr. Padmaja Venugopal, Ph.D.  
Professor and Head  
Department of Mathematics  
S.J.B. Institute of Technology  
# 67, BGS Health & Education City,  
Channarayana Road, Bannerghatta, Bangalore-56



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



#### Application Details

APPLICATION NUMBER	202041040472
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	18/09/2020
APPLICANT NAME	GIRISHA A
TITLE OF INVENTION	ORGANIC BODY WASHING DEVICEX
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	girishablue@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/03/2022

*Signature of the applicant*  
(Dr. Girisha A)

*Signature*  
HOD

**Dr. Padmaja Venugopal, Ph.D.**  
Professor and Head  
Department of Mathematics  
S.J.B. Institute of Technology  
# 67, BGS Health & Education City,  
Uttarahalli Road, Kengeri, Bangalore-60.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 27/10/2021

(21) Application No. 202141049065 A

(43) Publication Date : 26/11/2021

(54) Title of the invention : A METHOD FOR CONTROLLING ACOUSTIC NOISE IN SWITCHED RELUCTANCE MOTOR

(86) International classification

: H02P0021300000, H02P0025098000, G05B0013020000, H02P0025092000, H02K0019100000

(86) International Application No

: NA

(87) International Publication No

: NA

(61) Patent of Addition to Application Number

: NA

(62) Divisional to Application Number

: NA

Filing Date

: NA

(71) Name of Applicant :

1) REKHA P S

Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

2) Dr. MAMATHA MAHESH GOWDA

3) Dr. PADMAJA VENUGOPAL

4) Dr. VIJAYAKUMAR T

5) ROOPA D R

6) Dr. S. K. UMA

7) Dr. ROOPA

8) VIMALA C S

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) REKHA P S

Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

2) Dr. MAMATHA MAHESH GOWDA

Address of Applicant : PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

3) Dr. PADMAJA VENUGOPAL

Address of Applicant : PROFESSOR, DEPARTMENT OF MATHEMATICS SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

4) Dr. VIJAYAKUMAR T

Address of Applicant : PROFESSOR, DEPT. OF ELECTRONICS AND COMMUNICATION SJBIT, BANGALORE, KARNATAKA, INDIA - 560060. -----

5) ROOPA D R

Address of Applicant : ASSISTANT PROFESSOR DEPT. OF PHYSICS SJBIT, BANGALURU, KARNATAKA, INDIA - 560060. -----

6) Dr. S. K. UMA

Address of Applicant : PROFESSOR AND HEAD DEPT. OF MATHEMATICS, SIR. MVIT, BENGALURU, KARNATAKA, INDIA, 560 085 -----

7) Dr. ROOPA

Address of Applicant : ASSOCIATE PROFESSOR DEPT. OF MATHEMATICS, GATE, BANGALORE, KARNATAKA, INDIA, 560098 -----

8) VIMALA C S

Address of Applicant : ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS SJBIT, BANGALURU, KARNATAKA, INDIA - 560060. -----

(57) Abstract :

The present invention provides an artificial raindrop algorithm based controller for direct torque control to reduce maximum torque ripple to attain minimum acoustic noise in switched reluctance motor. Said direct torque control (21) consists of an artificial raindrop algorithm based controller (22) and proportional integral controller (23). The method for controlling acoustic noise consists of providing input data (13a) and determining error value from said input data (13a) using reference unit (15). Further, determining the proportional gain and integral gain for proportional integral controller (23) and providing control measures accordingly.

No. of Pages : 21 No. of Claims : 5

The Patent Office Journal No. 48/2021 Dated 26/11/2021

56379

*Dr. Roopa*

Head of the Department  
Department of Physics  
SJB Institute of Technology  
BGS Health & Education City  
Kengeri, Bangalore-560 060

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 13/01/2022

(21) Application No. 202241002186 A

(43) Publication Date : 04/02/2022

(54) Title of the invention : DESIGN OF HYDRO-PNEUMATIC ISD SUSPENSION IN HEAVY MULTI-AXLE VEHICLES

(51) International classification : F16F0009060000, B60G0011300000, B60G0017040000, F15B0001240000, B60G0021073000  
(6) International Application No : PCT//  
Filing Date : 01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
Filing Date : NA

(71) Name of Applicant :

1) Dr. B M Prasanna

Address of Applicant : Associate Professor, Department of Chemistry, Bapuji Institute of Engineering and Technology, Davanagere 577 004 -----

2) Dr. Banuprakash G

3) Dr. Sreenivasa B R

4) Dr. B. H. Doreswamy

5) Dr. N Madhukeshwara

6) Mr. Guruprashanth N

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) Dr. B M Prasanna

Address of Applicant : Associate Professor, Department of Chemistry, Bapuji Institute of Engineering and Technology, Davanagere 577 004 -----

2) Dr. Banuprakash G

Address of Applicant : Associate Professor, Department of Chemistry, S. J. B. Institute of Technology, Kengeri, Bangalore 560060 -----

3) Dr. Sreenivasa B R

Address of Applicant : Associate Professor, Department of Computer Science and Engineering, Bapuji Institute of Engineering and Technology, Davanagere 577 004 -----

4) Dr. B. H. Doreswamy

Address of Applicant : Professor and Head, Department of Physics, S. J. B. Institute of Technology, Kengeri, Bangalore 560060 -----

5) Dr. N Madhukeshwara

Address of Applicant : Professor, Department of Mechanical Engineering, Jain Institute of Technology, Davanagere 577 003 ---

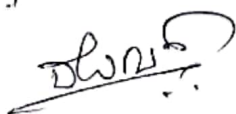
6) Mr. Guruprashanth N

Address of Applicant : Assistant Professor, Department of Civil Engineering, Jain Institute of Technology, Davanagere 577 003 ---

) Abstract :

hydro pneumatic vehicle suspension system consists of two strut assemblies with hydraulic struts that work on at least one hydro pneumatic piston-type accumulator in a hydro pneumatic vehicle suspension system. Among other things, the accumulator comprises a separating piston charged with hydraulic pressure on one side of a storage volume, pneumatic pressure on the other side of the separating piston rod that protrudes from the piston-type accumulator. A pressure medium cylinder works onto the separating piston rod and is connected to at least one pressure accumulator that creates stress pressure. The pressure medium cylinder's supplemental spring force acts upon the separating piston rod.

of Pages : 17 No. of Claims : 3



Head of the Department

Department of Physics

SJB Institute of Technology

BGS Health & Education City

Kengeri, Bangalore-560 060 6249

The Patent Office Journal No. 05/2022 Dated 04/02/2022



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



(<http://ipin>)

### Patent Search

Invention Title	ECO-FRIENDLY SYNTHESIS OF PYRROLO [1,2-A] QUINOLINE-3-CARBOXYLATE DERIVATIVES & THEIR STUDY OF ANTIBACTERIAL AN PROPERTIES
Publication Number	11/2020
Publication Date	13/03/2020
Publication Type	INA
Application Number	201941039384
Application Filing Date	29/09/2019
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	CHEMICAL
Classification (IPC)	C07D0471040000,C07D0519000000,G01N0033500000,C07D0487040000,C07D0215200000

#### Inventor

Name	Address	Co
VIJAYAKUMAR UPPAR	Department of Chemistry Rani Channamma University, Belagavi-591156	Ind
Prof. BASAVARAJ PADMASHALI	Department of Chemistry Rani Channamma University, Belagavi-591156	Ind
Dr. GOVINDAPPA BANUPRAKASH	Department of Chemistry SJB Institute of Technology Dr. Vishnuvardhan Road, Kengeri Bangaluru-560060	Ind
Dr. SANDEEP CHANDRASHEKHARAPPA	S/O C. Chandrashekarappa, Tevarachathnahalli Post: Gondichathnahalli, Shimoga-577216	Ind

#### Applicant

4/10/2020

Intellectual Property India



Department of Industrial  
Policy and Promotion  
Government of India

Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>)  
Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>) Copyright (<http://ipindia.gov.in/copyright.htm>)  
Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)  
Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>)  
Contact Us (<http://ipindia.gov.in/contact-us.htm>) Help (<http://ipindia.gov.in/help.htm>)  
Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019

*[Handwritten signature]*

*[Handwritten signature]*  
Head of the Department  
Department of Chemistry  
SJB Institute of Technology  
BGS Health & Education City  
Kengeri, Bangalore - 560 060

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041042387 A

(19) INDIA

(22) Date of filing of Application :29/09/2020

(43) Publication Date : 23/04/2021

(54) Title of the invention : SYNTHESIS AND CHARACTERIZATION OF (S)-3-(5-FLUOROPYRIDIN-2-YL)-5-(PIPERIDIN-3-YL)-1,2,4-OXADIAZOLE DERIVATIVES AND THEIR SECRETORY PHOSPHOLIPASE A2 (sPLA2) INHIBITOR ACTIVITY

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p>Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p>Filing Date</p> <p>(62) Divisional to Application Number</p> <p>Filing Date</p>	<p>:A61K0009480000, C07D0413040000, C07D0271060000, A01N0043820000, A61K0031197000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)DR. RANJITH SIDDARAJ</b></p> <p>Address of Applicant :Dept. of Studies in Chemistry University of Mysore Mysuru-570006, Karnataka, India Karnataka India</p> <p><b>2)DR. RAGHU NINGEGOWDA</b></p> <p><b>3)Dr. GOVINDAPPA BANUPRAKASH</b></p> <p><b>4)Dr. SANDEEP CHANDRASHEKHARAPPA</b></p> <p>(72)Name of Inventor :</p> <p><b>1)DR. RANJITH SIDDARAJ</b></p> <p><b>2)DR. RAGHU NINGEGOWDA</b></p> <p><b>3)Dr. GOVINDAPPA BANUPRAKASH</b></p> <p><b>4)Dr. SANDEEP CHANDRASHEKHARAPPA</b></p>
---	--	--

(57) Abstract :

SYNTHESIS AND CHARACTERIZATION OF (S)-3-(5-FLUOROPYRIDIN-2-YL)-5-(PIPERIDIN-3-YL)-1,2,4-OXADIAZOLE DERIVATIVES AND THEIR SECRETORY PHOSPHOLIPASE A2 (sPLA2) INHIBITOR ACTIVITY Abstract: The present invention relates to development of novel (S)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives. It particularly relates to the development of novel compounds of (S)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives as inhibitors of Secretory Phospholipase A2 (sPLA2). It also relates synthetic process for preparation of novel compounds of (S)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives as inhibitors of Secretory Phospholipase A2 (sPLA2). It further relates to the development of composition with novel compounds of (S)-3-(5-fluoropyridin-2-yl)-5-(piperidin-3-yl)-1,2,4-oxadiazole derivatives for inhibition of Secretory Phospholipase A2 (sPLA2). The final compounds were characterized by <sup>1</sup>H and <sup>13</sup>C-NMR, IR, LC-MS and Elemental analysis. In vitro inhibitory effect of series of 7(a-s) [Formula I] on VRV-PL-8a were assessed for PLA2 inhibition studies. The tested compounds 7(a-s) [Formula I] inhibited sPLA2 in dose-dependent manner with an IC<sub>50</sub> value ranging from 9.2 to 82μM which are computed and analyzed using sigmoidal 4PL curve t.

No. of Pages : 30 No. of Claims : 10

Head of the Department  
Department of Chemistry  
SJB Institute of Technology  
BGS Health & Education City  
Kengeri, Bangalore - 560 060



- (51) International Patent Classification:  
A61K 31/4196 (2006.01) C07D 471/02 (2006.01)
- (21) International Application Number:  
PCT/IB2020/057045
- (22) International Filing Date:  
26 July 2020 (26.07.2020)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
202041006661 16 February 2020 (16.02.2020) IN
- (72) Inventors; and  
(71) Applicants: NINGEGOWDA, Raghu [IN/IN]; DEPARTMENT OF CHEMISTRY, JYOTI NIVAS COLLEGE AUTONOMOUS, BENGALORE 560095 (IN). BANUPRAKASHI, Govindappa [IN/IN]; DEPARTMENT OF CHEMISTRY, SJB INSTITUTE OF TECHNOLOGY, DR. VISHNUVARDAN ROAD, KENGERI, BENGALURU, BENGALURU 560060 (IN). CHANDRASHEKHARAPPA, Sandeep [IN/IN]; INSTITUTE FOR STEM CELL BIOLOGY AND REGENERATIVE MEDICINE, NCBS, TIFR, GKVK-CAMPUS BELLARY ROAD, BANGALORE 560065 (IN).

- (74) Agent: BASAVA, Sharana; F-2279, 2nd Floor, Aravali Vihar, Sainik Colony, Sector-49, Sainik Colony, Faridabad 121001 (IN).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,

HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report (Art. 21(3))

- (54) Title: N-(4-FLUOROPHENYL)-5-PHENYL-[1,2,4] TRIAZOLO [1,5-A] PYRIDINE-2-CARBOXAMIDE DERIVATIVES AND THEIR SYNTHESIS THEREOF

(57) Abstract: The present invention relates to the development of novel N-(4-fluorophenyl)-5-phenyl- [1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives for their different pharmacological activities. It particularly relates to the development of N-(4-fluorophenyl)-5-phenyl- [1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives as antiviral, anticancer, antifungal, hypoglycemic, anti-tubercular, sedative, anti-type 2 diabetes activity. It specifically relates to the N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives for treatment of H37Rv and multidrug-resistant (MDR) strains of Mycobacterium tuberculosis (MTB). The present invention also relates to the process for synthesis of N-(4-fluorophenyl)- 5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives. The invention further relates to method for treatment of method for treatment of diseases such as tuberculosis, type 2 diabetes, bacterial, viral and fungal infections. Invention addresses the challenges in working with chemical processes and products by inventing novel reaction methodology that can maximize the desired products and minimize by-products, designing new synthetic schemes that can simplify operations in chemical productions and seeking nontoxic reagent that are inherently environmentally and ecologically benign. Synthesis of novel N-(4- fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives is being employed to develop a novel synthetic methodology and their pharmacological applications. Novel series of N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives were designed synthesized evaluated for their in vitro anti-mycobacterial activity against H37Rv and multi-drug-resistant (MDR) strains of mycobacterium tuberculosis (MTB). All the synthesized compounds were characterized by spectroscopic methods like Mass, NMR and elemental analysis.

WO 2021/161084 A1

Head of the Department  
Department of Chemistry  
SJB Institute of Technology  
BGS Health & Education City  
Kengeri, Bangalore - 560 060

Name	Address	Cr
RAGHU NINGEGOWDA	DEPARTMENT OF CHEMISTRY, JYOTI NIVAS COLLEGE AUTONOMOUS, BENGALORE, KARNATAKA, India	In
GOVINDAPPA BANUPRAKASH	DEPARTMENT OF CHEMISTRY, SJB INSTITUTE OF TECHNOLOGY, DR.VISHNUVARDAN ROAD, KENGERI, BENGALURU	In
SANDEEP CHANDRASHEKHARAPPA	INSTITUTE FOR STEM CELL BIOLOGY AND REGENERATIVE MEDICINE, NCBS, TIFR, GKVK-CAMPUS BELLARY ROAD, BANGALORE	In

**Abstract:**

**N-(4-FLUOROPHENYL)-5-PHENYL-[1,2,4] TRIAZOLO [1,5-a] PYRIDINE-2-CARBOXAMIDE DERIVATIVES AND THEIR SYNTHESIS THEREOF** Abstract The present invention relates to the development of novel N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives for their different pharmacological activities. It particularly relates to the development of N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives as antiviral, anticancer, antifungal, hypoglycemic, anti-sedative, anti-type 2 diabetes activity. It specifically relates to the N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives for treatment of multidrug-resistant (MDR) strains of Mycobacterium tuberculosis (MTB). The present invention also relates to the process for synthesis of N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives. The invention further relates to method for treatment of diseases such as tuberculosis, diabetes, bacterial, viral and fungal infections. Invention addresses the challenges in working with chemical processes and products by inventing novel reactor and process that can maximize the desired products and minimize by-products, designing new synthetic schemes that can simplify operations in chemical productions and seek reagent that are inherently environmentally and ecologically benign. Synthesis of novel N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives being employed to develop a novel synthetic methodology and their pharmacological applications. Novel series of N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivatives were designed synthesized and evaluated for their in vitro anti-mycobacterial activity against H37Rv and multi-drug-resistant (MDR) strain of Mycobacterium tuberculosis (MTB). All the synthesized compounds were characterized by spectroscopic methods like Mass, NMR and elemental analysis.

Complete Specification

Claims: We Claim,

1. Compound of N-(4-fluorophenyl)-5-phenyl-[1,2,4]triazolo[1,5-a]pyridine-2-carboxamide derivative having the formula (I):

Wherein

R = 2-F, 2-OMe, 2-Cl and 5-CF<sub>3</sub>, 4-OCF<sub>3</sub>, 4-Vinyl, 4H, 3-F and 2-Ethoxy.

2. Compound as claimed in claim 1 wherein the halogen is selected from fluorine (F) and chlorine (Cl).
3. Compound as claimed in claim 1 wherein the compound selected is from the group consisting of :

I (a)

I (b)

I (c)

[View Application Status](#)

4/10/2020

Intellectual Property India



Department of Industrial  
Policy and Promotion  
Government of India

Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>)  
Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>) Copyright (<http://ipindia.gov.in/copyright.htm>)  
Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)  
Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>)  
Contact Us (<http://ipindia.gov.in/contact-us.htm>) Help (<http://ipindia.gov.in/help.htm>)  
Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019

CF

  
Head of the Department  
Department of Chemistry  
SJB Institute of Technology  
BGS Health & Education City  
Kengeri, Bangalore - 560 060

