



INTELLECTUAL PROPERTY
INDIA



सत्यमेव जयते

PATENT OFFICE
MINISTRY OF COMMERCE AND INDUSTRY
Department of Industrial Policy and Promotion


It is hereby certified that annexed here to is a true copy of Complete Specification, Abstract and Drawing of the patent application as filed and as detailed below:-

Date of Application : 12/06/2014
Application No. : 2866/CHE/2014
Applicant : M/s. Channabasaveshwara Institute of Technology, an
Indian Company of N.H.206, Gubbi 572 216. Karnataka
India.

In witness there of
I have here unto set my hand

Dated this the 03rd day of September 2014
12th day of Bhadrapada, 1936(Saka)

By Authority of
THE CONTROLLER GENERAL OF PATENTS,
DESIGNS AND TRADE MARKS.


(O. PRASAD RAO)

ASSISTANT CONTROLLER OF PATENTS AND DESIGNS.

PATENT OFFICE
INTELLECTUAL PROPERTY RIGHTS BUILDING
G.S.T. ROAD, GUINDY
CHENNAI - 600 032.

12 JUN 2014

Form 2
The patent Act 1970
(39 of 1970)
AND
Patent Rules 2003

Complete Specification

**Title : A SECURE MONITROING OF 46 HABIT FORMING
DRUGS USING ABE IN CLOUD**

Applicants : 1. SHANTALA C.P

Nationality : INDIAN

**Address : Channabasaveshwara Institute of
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Karnataka, India.**

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ORIGINAL

28 6 6 /CHEI 2014

Applicant(s): SHANTALA C.P

A SECURE MONITORING OF 46 HABIT FORMING DRUGS USING ABE IN CLOUD

FIELD OF INVENTION

[0001] Present invention is related to the field of 'monitoring of 46 habit drugs in a chemist shop by cloud technology'. The government has sent a notification to each and every chemist shop, notification number (vide G.S.R 588(E) Dated 30.8.2013) and has listed 46 number (schedule H1 drugs). Such drugs should be sold only under doctor's prescription and data should be maintained in the prescribed format in the register such as drug name, quantity sold, patient name and address, doctor name and address, doctor registered number and bill number.

BACKGROUND OF INVENTION

[0002] Drugs are sold with regulation and only on prescription.

[0003] The illegal use of drug in India can be avoided.

[0004] The existing mechanism is not dynamic, our research facilitates, the online report of the 46 habit forming drugs to the sub zonal office or DCA, region wise.

[0005] A Consolidated report of every chemist can be viewed and generated at any point of time.

[0006] DCA can inspect the usage and investigate the report online.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] The whole procedure of how our model actual model works is represented in the form of diagram. The whole process of work is explained in different modules, each module is given in the form of figures.

[0008] Drawing is used to represent both hardware and software architecture

Applicant(s): SHANTALA C.P

that how the overall process take place.

- [0009] Fig.1 represents the flow diagram where there will be N chemist [100]([101],[102],[103]), each and every chemist will generate a report in a required format given by DCA and sent to storage area technically it can be called as cloud[200] , the cloud [200] will store the data in an encrypted format. The sub zonal officer from sub zonal office [300] will decrypt the information and can see the details of 46 habit forming drugs individually (region wise and chemist wise). Fig 2 shows the functionality of the people involved throughout the process.

DEVELOPMENT OF THE CONCEPT

- [0010] Cloud computing [200] is the next stage in the internet's evolution, through which everything from computing power to computing infrastructure, applications, businesses processes to personal collaboration can be delivered to us as a service whenever and whatever we need .
- [0011] Attribute based encryption (ABE) is a public key-based one-to-many encryption that allows users to encrypt and decrypt the data based on users attributes.

WORKING OF:A SECURE MONITORING OF 46 HABIT FORMING DRUGS USING ABE IN CLOUD.

- [0012] The new chemist [100] will get registered to the subzonal office[300], with his tin number, Every chemist [100] will get user id and password after registration for secure login and authentication.
- [0013] After successful login the chemist will enter the details in a prescribed format.
- [0014] The report is generated and the encrypted report is sent to drug control authority with a decryption key. The drug authority will enter the decrypt key and check out the details.

Applicant(s): SHANTALA C.P

SPECIAL FEATURES

- [0015] The cloud [200] has become the basic hardware to store each and every information with respect to internet, it is a 24/7 access.
- [0016] The cloud [200] is reliable, feasible, mobility, cost effective, efficient, secure.
- [0017] ABE encryption algorithm is used for efficient encrypt and decrypt of the information.

Flow of the fig 1.2 in modules [400] as shown bellow:-

Step 1:-The N chemist [100] will get registered to the sub zonal office [300].

Step 2:-Individual chemist [100] will get user id and password for secure login.

Step 3:-Enter the details of drugs sold and generate a report and sent to Sub zonal office [300].

Step 4:-The patient will get message about the drugs he buy.

Step 5:-Doctor will get a message details about the patient he prescribe.

CLAIMS

I/We Claim:

1. Provides a 24/7 access with mobility of information.
2. Huge amount of information can be stored and viewed.
3. Cloud provides high level security.
4. ABE is efficient algorithm to store the data.



Ministry of
Education
Government of India



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education (Higher))



CERTIFICATE

Institution's Innovation Council (IIC) established at

Channabasaveshwara Institute of Technology, Tumkur

had undertaken various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in campus during the IIC calendar year 2020-21.

Prof. Anil D. Sahasrabudhe
Chairman
AICTE

Dr. Abhay Jere
Chief Innovation Officer
MOE, Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Director
MOE, Innovation Cell

Certificate No : 1540

Issued On : 2022-01-03

Submitted to The Director:

Report on SAE BAJA Competition: 2021-22

Our team by name TEAM GOLDEN EAGLE, Dept of Mech. Engg., CIT, Gubbi comprising of 15 students and one staff took part in event called SAE BAJA. This was held at Peethampur, Madhyapradesh from 5th April 2022 to 12th April 2022. On 6th April-22 (Wednesday), the 15th edition of the BAJA SAEINDIA series by the Society of Automotive Engineers was inaugurated. Physically Eighty teams took part in the event out of 260 teams registered through virtual. On a day prior to the event started (i.e. day -1), BAJA aptitude test was conducted at Acropolis Institute of Technology, Indore for all the participants of final year students i.e. almost around 650+ students across all the states of India. From our team golden eagle 12 final year students attended the BAJA Aptitude test out of which 9 students cleared the same. All 9 students are eligible for attending HR round of companies like Mahendra nad Mahendra Ltd, PRAVAIG Dynamics located at Bangalore, VARROC at Mumbai, Automotive Research Association of India (ARAI) and etc. 6 from 9 students got offer letter from Mahendra and Mahendra Ltd for R and D division posted at Chennai with a starting package of 6.5Lakhs per annum. PRAVAIG and VARROC completed the selection process and waiting for the result. Our Vehicle cleared the weight, engine test and technical inspections.



BAJA SAEINDIA 2022



Dear Teams,

We are pleased to extend our warmest regards to all the participants for 15th edition of **BAJA SAEINDIA**.

We take this opportunity to welcome you all to **NATRAX Facility, Pithampur**. We are very happy to have you here with us.

You are about to embark on what will be one of the most wonderful experiences you will ever have. I applaud your interest and enthusiasm in competing for 15th edition of **BAJA SAEINDIA** amidst the ongoing pandemic and believe that you will find your experience to be fulfilling and worthwhile. You will gain skills and experiences that will carry throughout your career and some memorable moments that you will cherish for the rest of your life. There will be difficult times, when you doubt yourself and your decisions, but be strong, together as one team and stay faithful to the efforts you have put in because that is the only thing that has brought you to where you are.

Teams are requested to refer to the **BAJA SAEINDIA 2022 Guidelines** and abide by the **COVID protocols** and the **Rules & Regulations** of the event at the **NATRAX** site. Arrive early at the location with all needed supplies and be ready to start at the scheduled time. In case of any guidance and support needed, you can contact your respective Alumni Coordinator or Mr. Anurag Singh (Co-Head Alumni Committee, BAJA SAEINDIA 2022, Pithampur) at +91-8103485910.

Push headlong into the challenges and the various obstacles, which I am sure you all will face with courage, poise and passion, and I'll see you on the other side of the whirlwind.

Let's together make INDIA the best place for BAJA in the world.

Best of Luck Teams!

With Warm Regards,

Mr. Harshit Merchant

Hostener

BAJA SAEINDIA 2022, Pithampur

BAJA SAEINDIA

**Indore Institute of Science and Technology | Oppo. IIM Indore | Pithampur Road | Raun
Madhya Pradesh-453331 | Mob: +918602817114, +9199265429334**

www.bajasaeindia.co.in

Phase 3 Event Schedule

Phase 3 - I mBAJA, Pithampur

Day	Date	Event
Day -1	31 st April, Tuesday	BAJA Aptitude Test
Day 0	01 st April, Wednesday	Press Meet, Inauguration, Registration, Technical Evaluation & Validation Event
Day 1	02 nd April, Thursday	Technical Evaluation, Dynamic Events, CAE Finals, Cost Finals & Validation Event
Day 2	03 rd April, Friday	Technical Evaluation, Dynamic Events, Go Green, Design Finals & Validation Event
Day 3	04 th April, Saturday	Dynamic Events & Design Finals
Day 4	05 th April, Sunday	Endurance Race & Valedictory
Day 5 & 6	11 th April & 12 th April, Monday & Tuesday	HR Meet

Phase 3 - II eBAJA, Bengaluru

Day	Date	Event
Day -1	04 th May, Wednesday	BAJA Aptitude Test
Day 0	05 th May, Thursday	Press Meet, Inauguration, Registration, Technical Evaluation & Validation Event
Day 1	06 th May, Friday	Technical Evaluation, Dynamic Events, CAE Finals, Cost Finals & Validation Event
Day 2	07 th May, Saturday	Technical Evaluation, Dynamic Events, Design Finals
Day 3	08 th May, Sunday	Endurance Race & Valedictory
Day 4 & 5	09 th May & 10 th May, Monday & Tuesday	HR Meet

Our Sponsors:



ACME SZAM



TEAM GOLDEN EAGLE

Journey To SAEINDIA mBAJA Competition Pithampur

Our journey with a team of 13 members and our beloved Head Of Mechanical Department

Dr. S. Kulkarni started on 02/04/2022 from Tumkur railway station on a Samparkranti rail to Bhopal, Madhya

Day 1

Our team reached Bhopal around 2:00 AM midnight on 04/04/2022. We took a private bus to Indore from Bhopal
Station.



Madhumilan Circle Indore

We stayed in a hotel room in Madhumilan circle which was sponsored for best price by OYO where all other
participants from Karnataka stayed in same hotel.

through
The Head of Department,
Mechanical Department
GIT Gubbi

From,
Team Golden Eagle
GIT Gubbi

Respected Sir

Subject: Requisition to permit to actively participate in SAE India 3rd Phase Baja event

With respect to above subject, we the Team Golden Eagle are interested in participating Baja 3rd phase event conducted by SAE India. We request you to permit us in order to actively participate in the event held between 5th April 2022 to 11th April 2022 in Pithampur, Madhya Pradesh

Date of departure: 02/04/22
Date of arrival: 11/04/22 or 12/04/22
Thanking You

Yours Obediently
Team Golden Eagle

Sudhakar K. T.

Requested to sign on the
and approval

02/04/22

✓
To
HR
A G.E. is permitted to attend the event along with his to
Sudhakar

NAME	USN	SEM
ANANTH M S	1CG17ME029	7
ANANTH S R	1CG17ME034	7
ANANTHUR V SHEELAVANTAR	1CG17ME083	7
ANIL KUMAR M	1CG17ME099	7
ANIL M	1CG17ME106	7
ANIL B Chandra Uthar	1CG18ME010	5
ANIL SHREE K T	1CG18ME013	7
ANIL N A	1CG18ME065	7
ANIL KISHAN M N	1CG18ME067	7
ANILAKA DARGHMAN	1CG18ME072	7
ANILVANTH D	1CG18ME077	7
ANIL T R	1CG18ME403	7
ANIL K P I	1CG19ME437	7
ANIL TH S D	1CG19ME030	5
ANIL K S O	1CG19ME032	5

Signature: Dr. Srinivasan S. Kulkarni

2/20/2023

100%
100%
100%



E-Mail: chennai-patent@nic.in
Website: www.ipindia.nic.in
Telefax: 2250 2066



GOVERNMENT OF INDIA
PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
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Telephone: 2250 2081
2250 2082
2250 2083
2250 2084

NO.POC/CERTIFIED COPY/ ಹಿ ಕನಿಷ್ಠ

Dated: 22/08/2018

To


Mr. RAJENDRA C.J
ASSISTANT PROFESSOR, DEPT. OF ECE,
CHANNABASAVESHWARA INSTITUTE OF TECHNOLOGY,
N.H. 206, GUBBI - 572 216,
KARNATAKA, INDIA.

Sub: Supply of Certified Copies in respect of Patent Application Nos.
201741046315.

Sir,

With reference to your letters dated 22/12/2017 on the above subject and to forward herewith Certified Copies for the above mentioned Patent Applications .

Yours faithfully


ASSISTANT CONTROLLER OF PATENT AND DESIGNS

Encl: One Certified Copy



INTELLECTUAL
PROPERTY INDIA

(विज्ञान) व्यापार
संरक्षण) अर्थशास्त्र



सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA
वाणिज्य एवं उद्योग मंत्रालय
MINISTRY OF COMMERCE & INDUSTRY
पेटेंट कार्यालय
THE PATENT OFFICE

जिस किसी से संबन्धित हो
TO WHOMSOEVER IT MAY CONCERN

मैं, अधोहस्ताक्षरी जो पेटेंट अधिनियम, 1970 की धारा 73(3) के तहत महानियंत्रक एकस्व,
व्यापार चिह्न की ओर से प्रमाणपत्र हस्ताक्षर व जारी करने के लिए प्राधिकृत अधिकारी हूँ
कारण यह प्रमाणित करता/ती हूँ कि निम्नलिखित पेटेंट आवेदन के संबंध में फाइल दस्तावेज(जों)
की प्रतिलिपि इसके साथ संलग्न है।

I, the undersigned, being an officer duly authorized to sign and issue the certificate on
behalf of the Controller General of Patents, Designs and Trademarks in accordance with the
provisions of Section 73(3) of the Patents Act, 1970, hereby certify that annexed hereto is
a true copy of the document(s) as filed in connection with the following Patent Application:

- क) आवेदन संख्या(a) Application Number: 201741046315
ख) फाइल करने की तारीख(b) Date of Filing: 22/12/2017
ग) अनुरोधित दस्तावेज(जों) का नाम:
C) Name of the document(s) requested: Complete Specification

प्रमाणपत्र पेटेंट अधिनियम, 1970 की धारा 147(1) के अधीन मुझमें निहित शक्तियों के तहत जारी
गया है। This certificate is issued under the powers vested in me U/S 147(1) of The Patents

of this 1st day of August 2018

नियंत्रक पेटेंट व डिजाइन/Controller of Patents and Designs
(प्राधिकृत हस्ताक्षरी/Authorised Signatory)

FORM 1

THE PATENTS ACT 1970
(39 of 1970)

&

The Patents Rules, 2003

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

(FOR OFFICE USE ONLY)



700196108

Application No: 201741046315

Filing Date: 22/12/2017

Amount of Fee Paid: 1750/-

CBR No: 39398

Signature

1. APPLICANT(S)

Name	Nationality	Address
1. SURESH D. S.	INDIAN	Director & Principal Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
2. RAJENDRA C J	INDIAN	Assistant Professor Department of Electronics & Communication Engineering, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India

2. INVENTOR(S)

Name	Nationality	Address
1. RAJENDRA C J	INDIAN	Assistant Professor Department of Electronics & Communication Engineering, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
2. RAJU S	INDIAN	Foreman Department of Electronics & Communication Engineering, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
3. DHEERAJ C P	INDIAN	Student Department of Electronics & Communication Engineering, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
4. MISBHARAHAT	INDIAN	Student Department of Electronics & Communication Engineering, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
5. BHAVYA S	INDIAN	Student Department of Electronics & Communication Engineering, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
6. BHAGYA H S	INDIAN	Student Department of Electronics & Communication Engineering, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India

ENT OFFICE CHENNAI 26/1

5. TITLE OF THE INVENTION : PLC BASED AUTOMATIC EFFLUENT TREATMENT MECHANISM FOR COIR INDUSTRY

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

Rajendra C.J
 Assistant Professor, Department of ECE,
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 Karnataka, India
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5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY

Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention

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

International application number _____ International filing date as allotted by receiving office _____

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) application number _____ Date of filing of original (first) application _____

8. PARTICULARS FOR FILING PATENT OF ADDITION

Main application / Patent Number _____ Date of filing of main application _____

9. DECLARATIONS:

(i) Declaration by the Inventor(s)

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

(a) Date : 14/12/2017

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

(c) Name(s) : Rajendra C J Raju S Dhcranj C P Misbharahat Bhagya H S Bhavya S

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

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

(a) Date _____

(b) Signature(s) _____

(c) Name(s) of the signatory _____

(iii) Declaration by the applicant(s):

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

- I am/we are in possession of the above-mentioned invention.
- The provisional/complete specification relating to the invention is filed with this application.
- The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- There is no lawful ground of objection to the grant of the Patent to me/us.

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- I am/We are the assignee or legal representative of true & first inventors.
- The application or each of the applications, 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-6.
- The application is divided out of my/our application, particulars of which are given in Para-7, and pray that this application may be treated as deemed to have been filed on _____ under sec. 16 of the Act.
- The said invention is an improvement in or modification of the invention particulars of which are given in Para-8.

10. Following are the attachments with the application:

- (a) Provisional specification / Complete specification
- (b) Complete specification (in conformation with the international application) / as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of pages _____, No. of claims _____
- (c) Drawings (in conformation with the international application) / as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of sheets _____
- (d) Priority documents _____
- (e) Translation of priority document/Specification/International Search Report _____
- (f) Statement and undertaking on Form 3 _____
- (g) Power of Authority _____
- (h) Declaration of inventorship on Form 5 _____
- (i) Sequence listing in electronic form _____
- (j) Request for Certified Copy

Fee Rs 2850/- in Cash / Cheque / Bank Draft bearing no. 347018 Date 12/12/2017 on CORPORATION Bank.

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

Dated this 14th day of December, 2017

Signature:

Name: -


SURESH D.S


RAJENDRA C J

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

Note:- *Repeat boxes in case of more than one entry.

*To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.

*Tick (✓)/cross (x) whichever is applicable/not applicable in declaration in para-9.

*Name of the inventor and applicant should be given in full, family name in the beginning.

*Complete address of the inventor and applicant should be given stating the postal index no./code, state and country.

*Strike out the column(s) which is/are not applicable.

*For fee: See First Schedule.

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I 1110/JCI C04N14/1107/7C1 00/107-2AN-77



Form 2
The patent Act 1970
(39 of 1970)
AND
Patent Rules 2003

Complete Specification

Title : PLC BASED AUTOMATIC EFFLUENT
TREATMENT MECHANISM FOR COIR
INDUSTRY

Applicants : 1. SURESH D.S
2. RAJENDRA C.J

Nationality : INDIAN

Address : Channabasaveshwara Institute of
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Phone No. : +91 - 9741724290

E-mail : rajendracj@yahoo.com

PATENT OFFICE CHENNAI 26/12/2017 11:42

Applicant(s): SURESH D. S. & RAJENDRA C. J

PLC BASED AUTOMATIC EFFLUENT TREATMENT MECHANISM FOR COIR INDUSTRY

FIELD OF INVENTION

[0001] Present invention is related to the field of 'Development of technologies for water purification'. A device named as 'PLC Based Automatic Effluent Treatment Mechanism for Coir Industry' is developed and built for purification of water in coir industry.

BACKGROUND OF INVENTION

[0002] Water is the basic necessity for human life and is equally important for the industries for manufacturing/production of materials.

[0003] Generally the Coir Industry requires more quantity of water which are taken from rivers, lakes, bore wells etc. by paying huge amount of money, so it's necessarily important that conserving the water is in most priority. It makes us to understand that the used water must be recycled properly so that it can be used for the industries purpose.

[0004] At present, the methodology for recycling the water is not properly defined/identified. So, calculation of the water source quantity required for the regular process also not done properly.

[0005] The absence of defined mechanism for automatic purification of waste water from coir industry leads more water wastage.

[0006] Due to the improper / approximate calculation of the water source requirements there is an enormous amount of water is wasted.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] Invention described herein is illustrated by way of example and not by way of limitation in the accompanying figures. For simplicity and clarity of illustrations, elements related in the figures are not necessarily

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Applicant(s): SURESH D. S. & RAJENDRA C. J

drawn to scale. For example, the dimensions some elements may be exaggerated relative to other elements for clarity. Further, wherever considered appropriate, reference labels have been repeated among the figures to indicate corresponding or analogous elements.

[0008] Drawing is used to illustrate the 'PLC Based Automatic Effluent Treatment Mechanism for Coir Industry' applicable in 'Waste water Management'.

[0009] Fig.1 represents the flow diagram of complete hardware part of the prototype model of 'PLC Based Automatic Effluent Treatment Mechanism for Coir Industry' (2000) [here onwards called as PBAETMCI (2000)], consisting of a Main supply control switch (1000), PLC (2001), Water Pump 1 (2002), Water Pump 2 (2003), Solenoid Valve (2004), DC Motor (2005) and Water Pump 3 (3000).

DETAILED DESCRIPTION

[0010] Following is the description of the device called, 'PLC Based Automatic Effluent Treatment Mechanism for Coir Industry' PBAETMCI (2000). Numerous specific details such as logic implementations, resource partitioning / sharing / duplication implementations, types and interrelationships of system components and logic partitioning / integration choices are set forth in order to provide a more clear understanding of the present invention.

It will be appreciated, however, by one skilled in the art that the invention may be practiced without such specific details. In other instances, constructional details and other such details have not been shown in detail in order to obscure the invention. Those of ordinary skill in the art, with the included descriptions, will be able to implement appropriate functionally without undue experimentation.

PATENT OFFICE CHENNAI 26/12/2017 11:42

Applicant(s): SURESH D. S. & RAJENDRA C. J

CONCEPT OF PLC BASED AUTOMATIC EFFLUENT TREATMENT MECHANISM FOR COIR INDUSTRY

[0011] Instant purified water will be achieved by using defined procedure with aid of Programmable Logic Controller.

CONSTRUCTION OF PLC BASED AUTOMATIC EFFLUENT TREATMENT MECHANISM FOR COIR INDUSTRY

[0012] 'PLC Based Automatic Effluent Treatment Mechanism for Coir Industry' PBAETMCI (2000), consisting of a Main supply control switch (1000), PLC (2001), Water Pump 1 (2002), Water Pump 2 (2003), Solenoid Valve (2004), DC Motor (2005) and Water Pump 3 (3000).

[0013] PBAETMCI (2000), Main supply control switch (1000) and Water Pump 3 (3000) can be used for purification of water from waste coir water.

WORKING OF PLC BASED AUTOMATIC EFFLUENT TREATMENT MECHANISM FOR COIR INDUSTRY

[0014] As main supply control switch (1000) is on, the waste water collected is pumped to sedimentation process by using water pump 1 (2002). In sedimentation process the heavy particles get collected to the bottom of the tank and this sedimented water is pumped for filtering process using water pump 2 (2003) to remove further waste. This filtered water is sent for chlorination process by using Solenoid valve (2004) where chlorine is added to the filtered water and is mixed by using DC motor (2005).

[0015] After chlorination the pure water is pumped using water pump 3 (3000) which is again used for cleaning of coir. The entire process is controlled and monitored by using PLC (2001).

22-Dec-2017/80132/201741046315/Form 2(Title Page)

PATENT OFFICE CHENNAI 26/12/2017 11:42

Applicant(s): SURESH D. S. & RAJENDRA C. J

SPECIAL FEATURES

- [0016] No hazardous chemicals are used / involved throughout the process, so it can be termed as atmospheric friendly method.
- [0017] Low cost due to simplicity in construction and thus easily affordable.

22-Dec-2017/80132/201741046315/Form 2 (Title Page)

PATENT OFFICE CHENNAI

26/12/2017 11:42

5

CLAIMS

I/We Claim:

1. 'PLC Based Automatic Effluent Treatment Mechanism for Coir Industry'
PBAETMCI is a Low cost due to its simplicity in construction and thus easily affordable.
2. The method of claim 1 further comprising:
The waste water is sedimented using suitable chemicals.
3. The method of claim 2 further comprising:
The sedimented water is filtered by filtering process.
4. The method of claim 3 further comprising:
The sedimented water is filtered by chlorination technique.
5. The method of claim 3 further comprising:
The entire process is controlled and monitored by using PLC.

22-Dec-2017/80132/201741046315/Form 2 (Title Page)

PATENT OFFICE CHENNAI

26/12/2017 11:42
5

Applicant(s): SURESH D. S. & RAJENDRA C. J

ABSTRACT

PLC BASED AUTOMATIC EFFLUENT TREATMENT MECHANISM FOR COIR INDUSTRY

Water is the fundamental need of life which is utilized all over the place and by everybody all the time. Businesses by and large expend water from streams or lakes through the installment of tremendous duties, so it's fundamentally imperative that they reuse it with a specific end goal to diminish the cost and also to moderate it.

The primary maxim of this undertaking is to give mechanical computerization to clean the modern effluents (Exhausts) and furthermore to reuse the water for additionally use because of which the natural/water contamination can be adequately decreased. Subsequent to preparing of the items, businesses deliver wastewater which can be handled with the assistance of a progression of treatment forms alongside water reusing which causes us to economically deal with our most essential Natural asset (i.e., Water).

In this framework, we have proposed a completely mechanized process for the entire filtration and refinement of the waste water produced by the Coir Industries (to ret and drenching procedures of the dried crude coir filaments) the nation over. This PLC Based Automatic Effluent Treatment Mechanism for Coir Industry' (PBAETMCI) lessens the labor required by the business. The fundamental expectation is that the treated water can be thus utilized for some other household purposes and is savvy also. In this manner by the utilization of PLCs, all the information and yield field gadgets can be controlled consequently with the best possible programming of the gadget.

The PLC utilized, mechanizes the succession of operations to maintain a strategic distance from human obstruction because of which, precision is enhanced and additionally the speed of handling (throughput) is expanded. Additionally, the proficiency of the assembling procedure increments through the usage of this task. Likewise the other reason is to give mechanical and little endeavors with sewage treatment innovation with high exactness, unwavering quality, comfort, adaptable control and adaptability Characteristics.

PATENT OFFICE CHENNAI 26/12/2017 11:42

Drawings

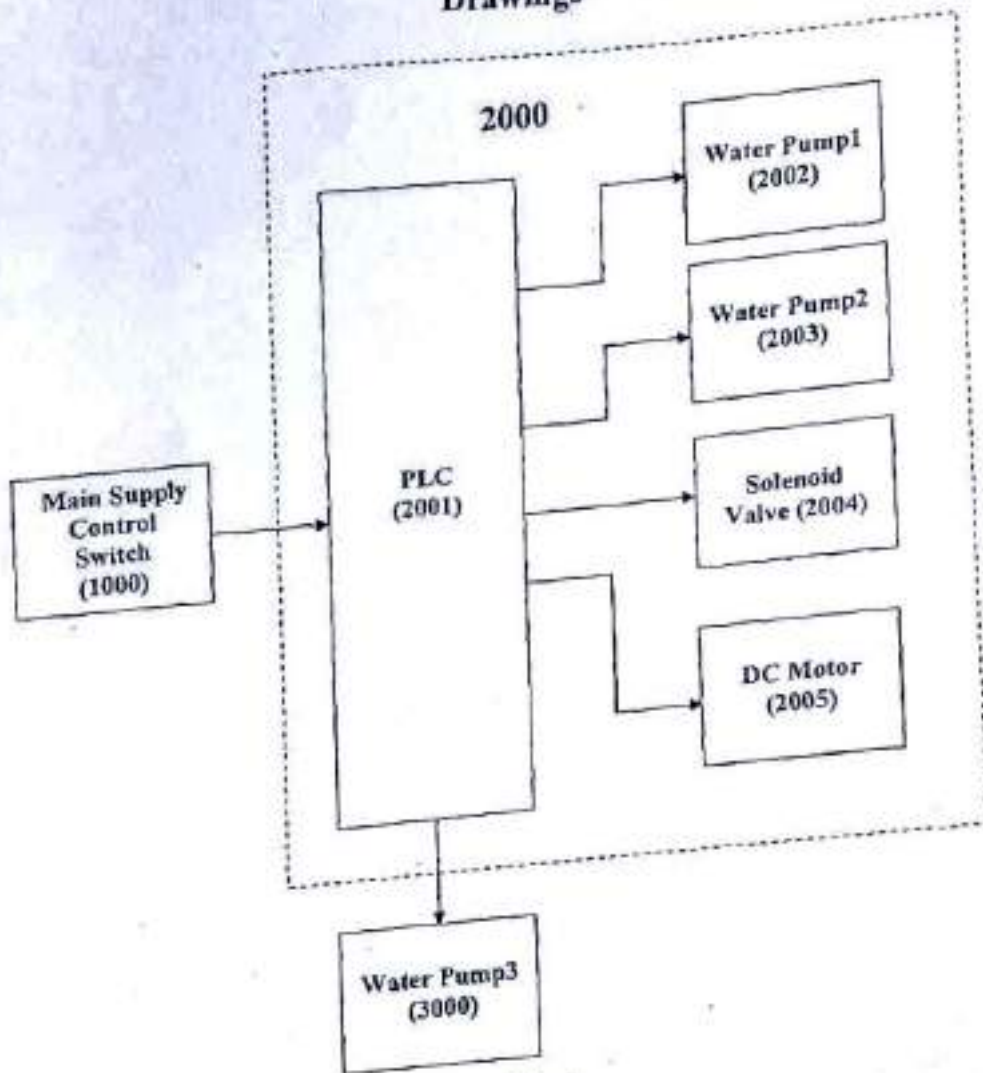


Fig. 1

Applicant (s) Signature:

Suresh D. S
Rajendra C. J

22-Dec-2017/80132/201741046315/Form 2 (Title Page)

PATENT OFFICE CHENNAI Date: 6/4/2017



Channabasaveshwara Institute of Technology

(Affiliated to VTU, Belgaum & Recognized by A.I.C.T.E. New Delhi)

(NAAC Accredited & An ISO 9001:2015 Certified Institution)

NH 206, (B.H. Road), Gubbi, Tumkur - 572 216. Karnataka



REPORT

On

Mega ATV Championship

**Mechies Autosports India Private Limited,
Organizing committee, Mega ATV Championship-Season-5,
GOA**

LETTER OF RECOGNITION

Autosports
INDIA

fmsci
The Federation of Motor Sports Clubs of India

MECHIES AUTOSPORTS INDIA (P) LIMITED
Registered U/S 7 of companies Act. 2013
CIN-U50404OR2015PTC018953

Ref: ASU/BBSR/ADMN/MAC0 /2019

Date: Nov. 9, 2019

TO WHOM SO EVER IT MAY CONCERN

Certified that "Team Golden Eagle" of "Channabasaveshwara Institute of Technology, from 572216, is a registered participant of "Mega ATV Championship" Season-5.

"Mega ATV Championship" is an Engineering Design, Manufacturing, Racing and utility based competition in which participant Teams from all over the country has to design and fabricate an ATV useful to serve for mankind.

We wish Team all the success in future.

Regards

Director,



For, Mechies Autosports India (P) Limited.

Contact us



teamgoldeneagle21@gmail.com



teamgoldeneagle.tk



Teamgoldeneagle



Teamgoldeneagle



9886411590, 9538332337
7022572924, 9972089417

Thank you!



Sri Channabasaveshwara Swamy Rural Education Society (Regd.)
ಚನ್ನಬಸವೇಶ್ವರ ಪಾಠಶಾಲಾ ಮಹಾವಿದ್ಯಾಲಯ, ಗುಬ್ಬಿ, ತುಮಕೂರು - 572 216.

Channabasaveshwara Institute of Technology

(NAAC Accredited & ISO 9001 : 2015 Certified Institution)

(Affiliated to Visvesvaraya Technological University, Belgaum & Recognized by A.I.C.T.E. New Delhi)

M.H. 20A, (B.H Road), Gubbi, TUMKUR - 572 216, Karnataka. Ph: 08131 - 223818, 223365, 223144 Fax: 08131 - 223177.

URL: www.ciftumkur.org e-mail : hr@ciftumkur.org, Mobile : 9449637043

Ref. No. CIT/Gen/2021-22/004

Date 05/04/2021

TO WHOMSOEVER IT MAY CONCERN

This is a vehicle (All terrain vehicle named Garuda 1.0) created by the students of our college for research & development, and are transporting for the event Mega ATV Championship at Paliyem, Querim Beach, Keri Beach, Paliyem Panchayat, North Goa, Goa from 9th to 13th April, 2021 for exhibition and racing purpose only and will be returning to our college after the event. The vehicle is not for sale, hence bears no commercial value and not subject to road or any other tax.

Signature: 

Designation: Principal
PRINCIPAL,

Seal: Channabasaveshwara
Institute of Technology.
GUBBI TUMKUR-57221A

Date: 7.4.2021

Place: Gubbi

SAE Event (Mega ATV Championship at Paliyem, Querin Beach, North Goa from 9th to 13th April 2021)

Sl. No.	Event	Position
1	Endurance Race	9 th Place
2	Dirt Race	19 th Place
3	Drag Race	29 th Place /
4	Armagaddon Race	Participation
	All India ranking	23 rd Place

DIRT RACE #19

Pos	Car No	Team Name	College Name
1	67	Team Phoenix	Shri Guru Gobind Singh Institute of Engineering and Technology Nanded
2	88	TEAM ASSASSINS	R.C.PATEL INSTITUTE OF TECHNOLOGY,SHIRPUR
3	65	Team Bruiser Heads	Gokaraju Rangaraju Institute of Engineering Technology
4	52	Team SparkX Racing	Silver Oak College Of Engineering And Technology
5	24	TEAM INDRA	SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE
6	95	Team CZAR	Pandit Deendayal Energy University
7	63	The Rucksteer Racing	Sri Sai Ram Engineering college
8	53	TEAM BLACKHAWKS	L.J.I.E.T
9	85	VYCEBAJA	Vidyavardhaka college engineering
10	64	AEROSTEON RACING 2.0	SRI ESHWAR COLLEGE OF ENGINEERING
11	16	Artemis Racing India	VIVA INSTITUTE OF TECHNOLOGY
12	80	TONCAR VBONGS	INDUS UNIVERSITY
13	34	Redline racing	K.S.GROUP OF INSTITUTIONS
14	62	Team Tomatoes Racing	Sharda University
15	8	TYROVELOCE RACING	St. Joseph's College of Engineering and Technology, Palai
16	82	Turbonites	Loyola - ICAM College of Engineering And Technology
17	78	Team Synergy Racing	G.L.Bajaj Institute of technology and management
18	93	Swarajya Motorsport	N. B. Navale Sinhgad College of Engineering, Kegaon, Solapur
19	1	TEAM GOLDEN EAGLE	Channabasaveshwara Institute of Technology



It's our first vehicle

It's our maiden event that
we took part

Thanks for the love and
support!

Keep supporting 🙌🙌



All about

#MegaAtvChampionship2021

#teamgoldeneagle

Autosports
INDIA MEVS

MEGA
ch **ATV** **Ampionship**
AN ISO 9001:2015 OFF-ROAD RACING

AS/2021/0108/00070

fmsci
The Indian Federation of Motor Sport Clubs

Certificate Of Participation

This is to certify that **BHOOMIKA K P** of team **TEAM GOLDEN EAGLE** representing **Channabasaveshwara Institute of Technology** has participated in the **Mega ATV Championship** held from **10th April - 13th April 2021** at **Pemem, Goa.**

Priyam Mohanty

Dr. Priyam Mohanty (Chairman)
Autosports India

Aditya Deshpande

Mr. Aditya Deshpande (Rept. Convenor)
Mega ATV Championship

Ranjit Kumar Sinha

Mr. Ranjit sinha (National Head)
Briggs & straton India





INTELLECTUAL PROPERTY
INDIA



GOVERNMENT OF INDIA
PATENT OFFICE
MINISTRY OF COMMERCE AND INDUSTRY
Department of Industrial Policy and Promotion

It is hereby certified that annexed here to is a true copy of **Complete Specification Abstract and Drawings** of the patent application as filed and as detailed below:-

Date Of Application : 19/11/2015
Application No. : 6234/CHE/2015
Applicant : Mr. Suresh D.S , an Indian citizen of Channabasaveshwara
Institute of Technology N.H. 206, Gubbi 572 216.
Karnataka, India.

In witness there of
I have here unto set my hand

Dated this the 30th day of November 2015
09th day of Agrahayana 1937(Saka)

By Authority of
THE CONTROLLER GENERAL OF PATENTS,
DESIGNS AND TRADE MARKS.

(DR.S.P.SUBRAMANIYAN)
ASST.CONTROLLER OF PATENTS AND DESIGNS

PATENT OFFICE
INTELLECTUAL PROPERTY RIGHTS BUILDING
G.S.T. ROAD, GUINDY
CHENNAI - 600 032.



Form 2
The patent Act 1970
(39 of 1970)
AND
Patent Rules 2003

Complete Specification

Title : PLC BASED WASTE MANAGEMENT ROBOT

Applicants : 1. SURESH D.S

Nationality : INDIAN

**Address : Channabasaveshwara Institute of
Technology
N. H. 206, Gubbi 572 216.
Karnataka, India.**

Phone No. : +91 – 9686550488

E-mail : sureshstumkur@yahoo.co.in

19-Nov-2015 13:09:35/6234-CHE-2015/Form 2(Title Page)

IPO CHENNAI 19112015 16:38

Applicant(s): SURESH D. S.

PLC BASED WASTE MANAGEMENT ROBOT

FIELD OF INVENTION

[0001] Present invention is related to the field of 'Waste Management'. A device named as 'Waste management Robot' is developed and built for preparing manure from the kitchen waste.

BACKGROUND OF INVENTION

[0002] Waste handling is a tedious task.

[0003] If the waste is not properly handled it may spoil the environment.

[0004] At present, natural decomposition method is adopted. Since the waste is kept in open air, decomposition will be delayed in rainy season and it may cause air pollution.

[0005] The existing method is season/weather/climate dependent and it consumes more time.

[0006] Definite mechanism for preparing instant manure is not available.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] Invention described herein is illustrated by way of example and not by way of limitation in the accompanying figures. For simplicity and clarity of illustrations, elements related in the figures are not necessarily drawn to scale. For example, the dimensions some elements may be exaggerated relative to other elements for clarity. Further, wherever considered appropriate, reference labels have been repeated among the figures to indicate corresponding or analogous elements.

[0008] Drawing is used to illustrate the 'Waste Management Robot' applicable in 'Waste Management'.

IPO CHENNAI 19112015 16-38

Applicant(s): SURESH D. S.

[0009] Fig.1 represents the flow diagram of complete hardware part of the prototype model of 'Waste Management Robot' (3000) [here onwards called as WMR (3000)], consisting of a Kitchen Waste (1000), Main supply control switch (2000), Grinding Machine (3001), water inlet (3002), Heating Coil (3003), Programmable Logical Controller (3004), Voice enabled Status monitoring system (3005) and Processed manure collecting area (4000).

DETAILED DESCRIPTION

[0010] Following is the description of the device called, 'Waste Management Robot' WMR (3000). Numerous specific details such as logic implementations, resource partitioning / sharing / duplication implementations, types and interrelationships of system components and logic partitioning /integration choices are set forth in order to provide a more clear understanding of the present invention.

It will be appreciated, however, by one skilled in the art that the invention may be practiced without such specific details. In other instances, constructional details and other such details have not been shown in detail in order to obscure the invention. Those of ordinary skill in the art, with the included descriptions, will be able to implement appropriate functionally without undue experimentation.

CONCEPT OF PLC BASED WASTE MANAGEMENT ROBOT

[0011] Instant manure preparation technique is achieved by using programmable Logical Controller.

IPO CHENNAI 19112015 16:38

Applicant(s): SURESH D. S.

CONSTRUCTION OF PLC BASED WASTE MANAGEMENT ROBOT

- [0012] 'Waste Management Robot' WMR (3000), consisting of a Kitchen Waste (1000), Main supply control switch (2000), Grinding Machine (3001), water inlet (3002), Electric heater (3003), Programmable Logical Controller (3004), Voice enabled Status monitoring system (3005) and Processed manure collecting area (4000).
- [0013] Both WMR (3000) and Cell / Main supply control switch (2000) / Processed manure collecting area (4000) are portable devices and it can be used for preparing manure from the kitchen waste.

WORKING OF PLC BASED WASTE MANAGEMENT ROBOT

- [0014] As the kitchen waste (1000) is dumped in to the device WMR (3000) and main supply control switch (2000) is on, the waste will be processed / grinded properly by grinding machine (3001) with sufficient / required amount of water through water inlet (3002).
- [0015] The processed kitchen waste (grinded pulp) has been heated up by using an electric heater (3003).
- [0016] The heated manure will be collected in the Processed / Composed Collecting area (4000). The overall operation is been monitored / controlled by PLC (3004). The individual process of preparation of manure will be tracked with the help of Voice enabled status monitoring system (3005)

SPECIAL FEATURES

- [0017] WMR (3000) is a portable device and it will be used in kitchen for the individual houses, hotels and apartments etc.
- [0018] WMR (3000) is a user friendly device.
- [0019] Lower cost due to simplicity in construction and thus easily affordable.

IPG CHENNAI 19112015 16:38

Applicant(s): SURESH D. S.

CLAIMS

I/We Claim:

1. 'PLC Based Waste Management Robot' WMR is a portable device and it will be used in houses, hotels and apartments etc.
2. The method of claim 1 further comprising:
The waste from the kitchen has been processed / grinded properly by adding sufficient / required amount of water.
3. The method of claim 2 further comprising:
The processed kitchen waste (grinded pulp) has been heated up by using an electric heater.
4. The method of claim 3 further comprising:
The heated manure has been collected in the Processed / Composed Collecting area. The overall operation is been monitored / controlled by PLC.
5. The method of claim 3 further comprising:
The individual process of preparation of manure has been tracked with the help of Voice enabled status monitoring system

Applicant(s): SURESH D. S.

ABSTRACT

PLC BASED WASTE MANAGEMENT ROBOT

Kitchen waste handling is a tedious task. If the waste is not properly handled it may spoil the environment. At present, natural decomposition method is adopted. Since the waste is kept in open air, decomposition will be delayed in rainy season and it may cause air pollution. The existing method is season / weather / climate dependent and it consumes more time. Definite mechanism for preparing instant manure is not available. The proposed PLC based Waste Management Robot (WMR) addresses the above said issues. WMR is a portable device and it will be used in houses, hotels and apartments etc.

The waste from the kitchen has been processed / grinded properly by adding sufficient / required amount of water. The processed kitchen waste (grinded pulp) has been heated up by using an electric heater.

The heated manure has been collected in the Processed / Composed Collecting area. The overall operation is been monitored / controlled by PLC. The individual process of preparation of manure has been tracked with the help of Voice enabled status monitoring system.

Drawings

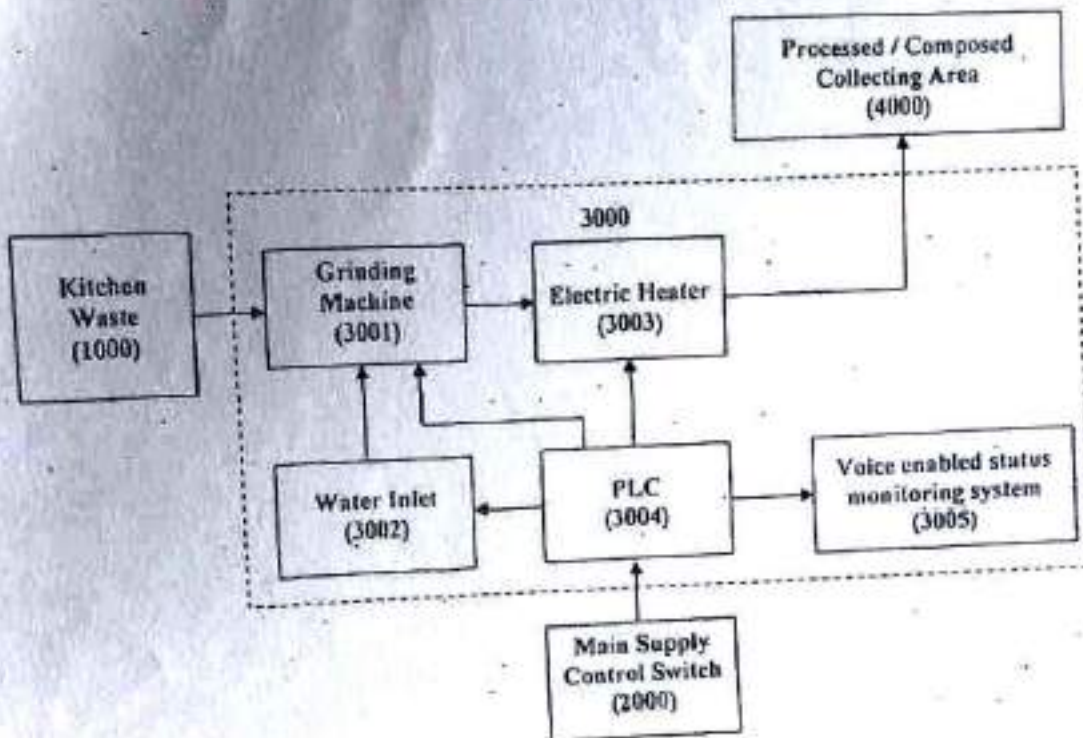


Fig. 1.1

Suresh D. S
Applicant (s) Signature:

Date: 16/11/2015

19-Nov-2015/36935/6234-CHE-2015/Form 2(Title Page)

IPO, CHENNAI 19/11/2015 16:38



E-Mail: chennai-patent@nic.in
Website: www.ipindia.nic.in
Telefax: 2250 2066



GOVERNMENT OF INDIA
PATENT OFFICE
INTELLECTUAL PROPERTY BUILDING
G.S.T ROAD, GUINDY
CHENNAI - 600 032

Telephone: 2250 2081
2250 2082
2250 2083
2250 2084

NO.POC/CERTIFIED COPY/413198

Dated: 04/02/2016

To

M/r. Suresh D.S
Director & Principal,
Channabasaveshwara Institute of Technology
N.H. 206, Gubbi - 572 216,
Karnataka, India.

Sub: Supply of Certified Copy in respect of Application No. 6234/CHE/2015.

Sri,

With reference to your letter dated 19/11/2015 on the above subject and to forward herewith Certified Copy for the above mentioned Patent Applications as desired by you.

Yours faithfully

(DR.S.P.SUBRAMANIYAN)
DEPUTY. CONTROLLER OF PATENT & DESIGNS

Encl: One Certified Copy

March 24, 2021

To,
The Controller of Patents
The Patent Office,
Intellectual Property Office Building,
G.S.T. Road, Guindy,
Chennai-600032,

Re: Application for Patent.
Title: VOICE BASED TOUCH FREE VENDING MACHINE
Our Reference: DSS-006

Dear Sir,

Please find enclosed following documents along with this cover letter for necessary action

- | | | |
|-------------------------------------|---------|-----------------|
| 1. Request for certified copy | 1 Page | |
| 2. Form 1 | 3 Page | (In Duplicate) |
| 3. Form 3 (Declaration under Sec 8) | 1 Page | (In Duplicate) |
| 4. Form 2 (complete specification) | 6 Pages | (In Triplicate) |
| 5. Drawings | 1 Pages | (In Triplicate) |

Also please find enclosed DD for Rs. 2850 (1750+1100) in the name of **Controller of Patents**, Payable at Chennai.

Draft details: No. 916128, UNION BANK OF INDIA Dated 24/3/2021

The payment of Rs 2850/- is computed as:

Filing Fee for natural persons (claims not exceeding 10 and number of pages in specification/drawing not exceeding 30 pages) = Rs 1750.00
Certified copy of the specification = Rs 1100.00

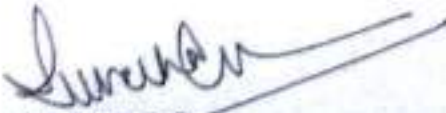
Total **Rs 2850.00**

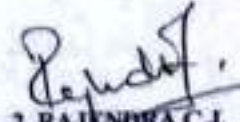
For any further communication and/or for any clarification, you may please contact,

1. SURESH D. S.
Professor, Dept. of ECE,
Channabasaveshwara Institute of Technology
N.H. 206, Gubbi - 572 216
Karnataka, India

2. Rajendra C J
Assistant Professor, Dept. of ECE,
Channabasaveshwara Institute of Technology
N.H. 206, Gubbi - 572 216
Karnataka, India
Ph. +91 - 9741724290
08131 223818, 08131 223177

Thanking You
Yours Sincerely


I. SURESH D.S.


2. RAJENDRA C.J.

March 24, 2021

To,
The Controller of Patents
The Patent Office,
Intellectual Property Office Building,
G.S.T. Road, Guindy,
Chennai-600032,

Re: Request for certified copy of the specification

Title: VOICE BASED TOUCH FREE VENDING MACHINE

Our Reference: DSS-006

Dear Sir,

Request you to issue the certified copy of the patent application being made herewith.

A prescribed fee of Rs 2850 is included in the DD for the purpose.

We request you to send the certified copy to the address noted below

I. Rajendra C J
Assistant Professor, Dept. of ECE,
Channabasaveshwara Institute of Technology
N.H. 206, Gubbi - 572 216
Karnataka, India
Ph. +91 - 9741724290
08131 223818
08131 223177

Thanking You.
Yours Sincerely,


1. SURESH D.S.


2. RAJENDRA C.J.

FORM 1 THE PATENTS ACT 1970 (39 of 1970) & The Patents 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:
1. APPLICANT(S)		
Name	Nationality	Address
1. SURESH D. S.	INDIAN	Professor, Dept. of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
2. RAJENDRA C.J.	INDIAN	Assistant Professor, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
2. INVENTOR(S)		
Name	Nationality	Address
1. RAJENDRA C.J.	INDIAN	Assistant Professor, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
2. SEKAR R	INDIAN	Assistant Professor, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
3. RAJU S	INDIAN	Foreman, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
4. NIHARIKA R.K	INDIAN	Student, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
5. DARSHINI C.V	INDIAN	Student, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
6. KAVANA R.C	INDIAN	Student, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
7. MANISHA G	INDIAN	Student, Department of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India
3. TITLE OF THE INVENTION : VOICE BASED TOUCH FREE VENDING MACHINE		

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

Rajendra C J
 Assistant Professor, Dept. of ECE,
 Channabasaveshwara Institute of Technology
 N.H. 206, Gubbi - 572 216
 Karnataka, India
 Telephone No.: 08131 223818 Ext. 208
 Fax No.: 08131 223177
 Mobile No.: +91 9741724290
 Email: rajendracj@yahoo.com

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

Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention

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

International application number	International filing date as allotted by receiving office.
----------------------------------	--

7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) application number	Date of filing of original (first) application
-------------------------------------	--

8. PARTICULARS FOR FILING PATENT OF ADDITION

Main application / Patent Number	Date of filing of main application
----------------------------------	------------------------------------

9. DECLARATIONS:

(i) Declaration by the Inventor(s)

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

(a) Date :

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

[Handwritten signatures: Rajendra C.J., Sekar R., Raju S., Niharika R.K., Dakshini C.V., Kavana R.C., Manisha G.]

(c) Name(s)

: RAJENDRA C J SEKAR R RAJU S NIHARIKA R K DAKSHINI C V KAVANA R C MANISHA G

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

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

(a) Date _____

(b) Signature(s) _____

(c) Name(s) of the signatory _____

(iii) Declaration by the applicant(s):

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

- I am/we are in possession of the above-mentioned invention.
- The provisional/complete specification relating to the invention is filed with this application.
- The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- There is no lawful ground of objection to the grant of the Patent to me/us.
- I am/We are the assignee or legal representative of true & first inventors.
- The application or each of the applications, 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-6.
- The application is divided out of my/our application, particulars of which are given in Para-7, and pray that this application may be treated as deemed to have been filed on _____ under sec. 16 of the Act.
- The said invention is an improvement in or modification of the invention _____ particulars of which are given in Para-8.

10. Following are the attachments with the application:

- (a) ~~Provisional specification / Complete specification~~
- (b) ~~Complete specification (in conformation with the international application) / as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of pages _____~~
- (c) ~~Drawings (in conformation with the international application) as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies), No. of sheets _____~~
- (d) ~~Priority documents~~
- (e) ~~Translation of priority document / Specification / International Search Report~~
- (f) ~~Statement and undertaking on Form 3~~
- (g) ~~Power of Authority~~
- (h) ~~Declaration of inventorship on Form 5~~
- (i) ~~Sequence listing in electronic form~~
- (j) ~~Request for Certified Copy~~

Fee Rs 2850/- in ~~Cash~~ / Cheque / Bank Draft bearing no. 916128 Date 24/03/2021 on UNION BANK OF INDIA Bank.

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

Dated this 24th day of MARCH 2021

Signature:



Name: -

SURESH D.S



RAJENDRA C.J.

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

Note: *Repeat boxes in case of more than one entry.

*To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.

*Tick (✓)/cross (x) whichever is applicable/not applicable in declaration in para-9.

*Name of the inventor and applicant should be given in full, family name in the beginning.



*Complete address of the inventor and applicant should be given stating the postal index no./code, state and country.

*Strike out the column(s) which is/are not applicable.

*For fee: See First Schedule.

Form 3
 THE PATENT ACT, 1970 (39 of 1970) &
 PATENT RULES, 2003

STATEMENT OF UNDERTAKING UNDER SECTION 8
 (See Sec 8 and rule 12)

1. Name of the Applicant(s)		I/we ¹ : 1. SURESH D. S. Professor, Dept. of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India 2. RAJENDRA C.J Assistant Professor, Dept. of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India hereby declare: i) that I/we have not made any application for the same/substantially same invention outside India OR			
2. Name, Address and nationality of the joint applicant:		That I/we who have made this application, No. Dated			
		alone/jointly with ² : Made for the same / substantially same, application(s) for patent in the other countries, the particulars are given below			
Name of the Country	Date of application	Application Number	Status of the Application	Date of Publication	Date of Grant
3. Name and address of the Assignee		iii) that the rights in the applications has/have been assigned to ³ : 1. SURESH D. S. Director & H O D of Electronics & Communication Engineering Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India 2. RAJENDRA C.J Assistant Professor, Dept. of ECE, Channabasaveshwara Institute of Technology N.H. 206, Gubbi - 572 216 Karnataka, India			
4. To be signed by the applicant(s) or authorized patent Agent		That I/we undertake that up to the date of grant of the patent, by the controller, I/we would keep him informed in writing the details regarding corresponding applications for patent filed outside India within three months from the Date of filing of such application			
5. Name of Natural person who has signed.		Dated This 18 th day of March 2021			
		Signature  SURESH D.S		Signature  RAJENDRA C.J	
		Applicants			

To,
 The Controller of patents
 The Patent Office, At Chennai.

Form 2
The patent Act 1970
(39 of 1970)
AND
Patent Rules 2003

Complete Specification

Title : VOICE BASED TOUCH FREE VENDING MACHINE

Applicants : 1. SURESH D.S
2. RAJENDRA C.J

Nationality : INDIAN

Address : Channabasaveshwara Institute of Technology
N. H. 206, Gubbi 572 216.
Karnataka, India.

Phone No. : +91 – 9741724290

E-mail : rajendracj@yahoo.com

Applicant(s): SURESH D.S. & RAJENDRA C.J.

VOICE BASED TOUCH FREE VENDING MACHINE

FIELD OF INVENTION

[0001] Present invention is related to the field of 'Automation'. A device named as 'Voice based Touch free Vending Machine' is developed and built for public's heightened concern on hygiene and safety.

BACKGROUND OF INVENTION

[0002] Safety and hygiene issues are important aspects in the wake of COVID-19, there is a growing demand for voice based contactless and mobile/wireless payment options.

[0003] At present, touchless vending machines are available, which is enabled with cell/mobile phone based product selection.

[0004] Unless cell/mobile phone camera is pointed to the screen of vending machine, it will not initiate the process of dispensing.

[0005] The existing mechanism is not voice based.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] Invention described herein is illustrated by way of example and not by way of limitation in the accompanying figures. For simplicity and clarity of illustrations, elements related in the figures are not necessarily drawn to scale. For example, the dimensions some elements may be exaggerated relative to other elements for clarity. Further, wherever considered appropriate, reference labels have been repeated among the figures to indicate corresponding or analogous elements.

[0007] Drawing is used to illustrate the 'Voice Based Touch Free Vending Machine' applicable in 'Automation'.

Applicant(s): SURESH D.S. & RAJENDRA C.J.

[0008] Fig.1 represents the flow diagram of complete hardware part of the prototype model of 'Voice Based Touch Free Vending Machine' (1000) [here onwards called as VBTFVM (1000)], consisting of a ultrasonic sensor (1001), Audio & Voice Recognition Kit (1002), Microcontroller (1003), Contactless Payment card (1004), LCD (1005) and Material Dispenser (1006).

DETAILED DESCRIPTION

[0009] Following is the description of the device called, 'Voice Based Touch Free Vending Machine' VBTFVM (1000). Numerous specific details such as logic implementations, resource partitioning/ sharing /duplication implementations, types and interrelationships of system components and logic partitioning /integration choices are set forth in order to provide a more clear understanding of the present invention.

It will be appreciated, however, by one skilled in the art that the invention may be practiced without such specific details. In other instances, constructional details and other such details have not been shown in detail in order to obscure the invention. Those of ordinary skill in the art, with the included descriptions will be able to implement appropriate function without undue experimentation.

CONCEPT OF VOICE BASED TOUCH FREE VENDING MACHINE

[0010] Customers simply move their hand near the ultrasonic sensor and the machine asks the user credentials and their need. Then the user have to give voice command from which they can control the vending machine in real time such as selection of products, viewing their relevant information and finally touch free checkout.

Author(s): SURESH D.S. & RAJENDRA C.J.

CONSTRUCTION OF VOICE BASED TOUCH FREE VENDING MACHINE

- [0011] 'Voice Based Touch Free Vending Machine' VBTFVM (1000), consisting of an ultrasonic sensor (1001), AUDIO & VOICE RECOGNITION KIT (1002), Microcontroller (1003), Contactless Payment card (1004), LCD (1005) and Material Dispenser (1006).
- [0012] 'Voice Based Touch Free Vending Machine' VBTFVM (1000), is a portable / fixed device and it can be used in Hospitals, Educational Institutes, Shopping Malls, Bus /Railway stations, Hotels etc.

WORKING OF VOICE BASED TOUCH FREE VENDING MACHINE

- [0013] VBTFVM (1000) detects the movement of hand kept near the ultrasonic sensor (1001), displays the item information through LCD (1005) and Audio & Voice Recognition Kit (1002).
- [0014] Once vending machine asks for the input, the user needs to give voice command through Audio & Voice Recognition Kit (1002) regarding the product required.
- [0014] Once the product is selected and confirmed by the customer, the device VBTFVM (1000) asks for payment through Audio & Voice Recognition Kit (1002). The customer needs to pay the total amount through contactless Payment card (1004).
- [0015] Once the payment is done the VBTFVM (1000) will dispense the respective product through Material Dispenser (1006) and customer can proceed their sign out option.

SPECIAL FEATURES

- [0016] 'Voice Based Touch Free Vending Machine' VBTFVM (1000) is a portable / fixed device and it can be used in Hospitals, Educational Institutes, Shopping Malls, Bus/Railway stations and Hotels etc.

Author(s): SURESH D.S. & RAJENDRA C.J.

[7] VBTFVM (1000) is a voice based user friendly device.

[8] Low cost due to its simple in construction and it is easily affordable.

CLAIMS

We Claim:

1. 'Voice Based Touch Free Vending Machine' VBTFVM is an automated electronic portable / fixed device and it can be used in Hospitals, Educational Institutes, Shopping Malls, and Hotels etc.

2. The method of claim 1 further comprising:

VBTFVM works on the innovative concept (voice recognition and play back mechanism)

3. The method of claim 2 further comprising:

Voice based model will attract the user

4. The method of claim 3 further comprising:

The entire process is completely touch free with low cost

5. The method of claim 4 further comprising:

More reliable operation and user friendly

Applicant(s): SURESH D.S. & RAJENDRA C.J.

ABSTRACT

VOICE BASED TOUCH FREE VENDING MACHINE

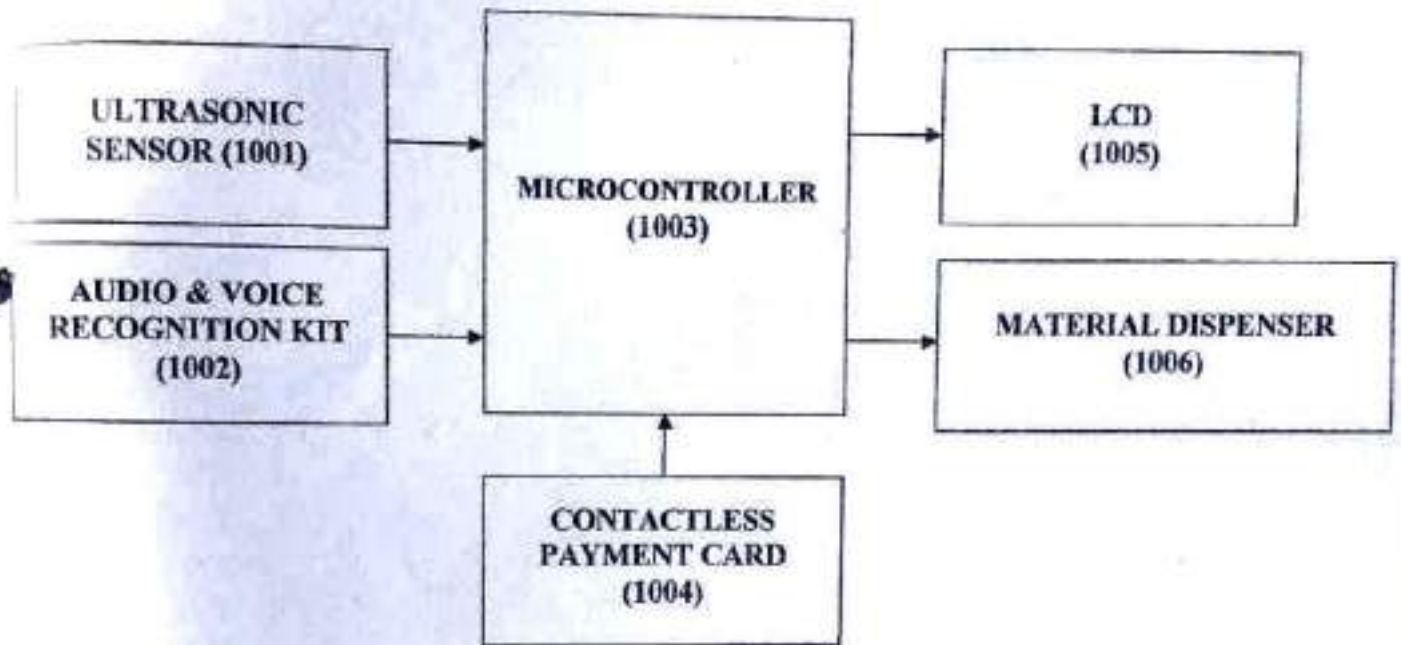
The post COVID situation made the entire life style of the human being isolated from their routine life style process. As an extension, we use to prefer the daily needs dispensing system also through machine, and many of the process are converted from the human intervention to machine. In which, at least any one of the operation use to be in touch mode such as payment, selection of the item etc. This proposed product also an attempt to design a touch free vending machine which is operating completely using the voice.

Even so many innovative methods are deployed to construct the vending machines, this voice based machine with the facility of user recognition and touch free payment mode of operation are unique features of this product.

In addition, the user can verify their choices using the display board attached with it. Further, the user identification mechanism will save malfunction of the system and save the electricity using its additional features. The simple in construction of the product made the cost lower and reduced the complexity in design.

Drawings

1000



Suresh D. S
Applicant (s) Signature: *Rajendra C.J*

Date: 24/03/2021



INTELLECTUAL PROPERTY
INDIA



सत्यमेव जयते

GOVERNMENT OF INDIA

PATENT OFFICE

MINISTRY OF COMMERCE AND INDUSTRY

Department of Industrial Policy and Promotion

It is hereby certified that annexed here to is a true copy of Complete Specification Abstract and Drawing of the patent application as filed and as detailed below:-

Date of Application : 22/02/2016
Application No. : 2016-41006047
Applicant : M/s. Channabasaveshwara Institute of Technology., an
Indian Company Of N. H. 206, Gubbi 572 216.
Karnataka, India.

In witness there of
I have here unto set my hand

Dated this the 07th day of March 2016
17th day of Phalgun, 1937(Saka)

By Authority of
THE CONTROLLER GENERAL OF PATENTS,
DESIGN AND TRADE MARKS.

(DR. S.P. SUBRAMANIAN)
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Form 2
The patent Act 1970
(39 of 1970)
AND
Patent Rules 2003

Complete Specification

Title : AUTOMATED BRAKE CONTROL SYSTEM

Applicants : 1. SURESH D.S

Nationality : INDIAN

**Address : Channabasaveshwara Institute of
Technology
N. H. 206, Gubbi 572 216.
Karnataka, India.**

Phone No. : +91 - 9686550488

E-mail : sureshstumkur@yahoo.co.in

22/02/2016

Applicant(s): SURESH D. S.

AUTOMATED BRAKE CONTROL SYSTEM

FIELD OF INVENTION

[0001] Present invention is related to the field of 'Automobile Engineering'. A device named as 'Automated Brake Control System' is developed and built for control/stop the vehicle when the brake failure occurs during driving.

BACKGROUND OF INVENTION

- [0002] Control/stop the brake failure vehicle during driving is a risky operation.
- [0003] After realizing the brake failure by the driver, bringing the vehicle immediately to the safer zone is impossible (due to the traffic engaged in the adjacent traffic lane).
- [0004] At present, there is no controlling mechanism to stop the vehicle during the brake failure.
- [0005] Definite mechanism for alerting the driver at the time of brake failure in the vehicle is not available.

BRIEF DESCRIPTION OF THE DRAWINGS

- [0006] Invention described herein is illustrated by way of example and not by way of limitation in the accompanying figures. For simplicity and clarity of illustrations, elements related in the figures are not necessarily drawn to scale. For example, the dimensions some elements may be exaggerated relative to other elements for clarity. Further, wherever considered appropriate, reference labels have been repeated among the figures to indicate corresponding or analogous elements.
- [0007] Drawing is used to illustrate the 'Automated Brake Control System' applicable in 'Automobile Engineering'.

Applicant(s): SURESH D. S.

[0008] Fig.1 represents the flow diagram of complete hardware part of the prototype model of 'Automated Brake Control System' (2000) [here onwards called as ABCS (2000)], consisting of a Brake pedal/hand lever (1001), Brake Drum (1002), Brake Wire (1003), Continuity detector (2001), Microcontroller (2002), Servo motor (2003), GSM (2004), Driver Authentication Switch (2005) and Buzzer (2006).

DETAILED DESCRIPTION

[0009] Following is the description of the device called, 'Automated Brake Control System- ABCS (2000). Numerous specific details such as logic implementations, resource partitioning / sharing / duplication implementations, types and interrelationships of system components and logic partitioning /integration choices are set forth in order to provide a more clear understanding of the present invention. It will be appreciated, however, by one skilled in the art that the invention may be practiced without such specific details. In other instances, constructional details and other such details have not been shown in detail in order to obscure the invention. Those of ordinary skill in the art, with the included descriptions, will be able to implement appropriate functionally without undue experimentation.

CONCEPT OF AUTOMATED BRAKE CONTROL SYSTEM

[0010] A microcontroller based instant detection of brake failure in the vehicle is achieved and brought to the notice of the driver. Once the acknowledgement given to stop the vehicle, a mechanism will be employed for controlling/stopping the vehicle in the safe lane.

Applicant(s): SURESH D. S.

CONSTRUCTION OF AUTOMATED BRAKE CONTROL SYSTEM

- [0011] 'Automated Brake Control System' ABCS (2000), consisting of a Hand Brake pedal/hand lever (1001), Brake Drum (1002), Brake Wire (1003), Continuity detector (2001), Microcontroller (2002), Servo motor (2003), GSM (2004), Driver Authentication Switch (2005) and Buzzer (2006).
- [0012] ABCS (2000) is simple in design and operation and can be used in automobiles.

WORKING OF AUTOMATED BRAKE CONTROL SYSTEM

- [0013] A Continuity detector (2001) terminal which are engaged with the brake wire connected between brake pedal/hand lever (1001) and brake drum(1002) detects the condition/healthiness of brake wire (1003)
- [0014] Once the continuity detector (2001) detects the fault, it sends a signal to the microcontroller (2002). Then the microcontroller activates the buzzer (2006) to inform/alerts the driver about the brake failure and to bring the vehicle in the safe lane.
- [0015] Once the driver confirms the vehicle in safe lane by pressing the Driver acknowledgement switch (2005), microcontroller (2002) deactivate the buzzer (2006) and triggers a servomotor (2003) for applying the brake in brake drum (1002)
- [0016] In addition, once the vehicle stops, an intimation message will be send to the patrol help line and nearest vehicle service centre using GSM module (2004)

SPECIAL FEATURES

- [0017] ABCS (2000) is a low cost device.
- [0018] ABCS (2000) is simple in design and operation.
- [0019] ABCS consists of simple modules/blocks, so there is no complexity in operation and the reliability is more.

Applicant(s): SURESH D. S.

CLAIMS

I/We Claim:

1. 'Automated Brake Control system' ABCS is a low cost, simple in design, can be used in automobiles.
2. The method of claim 1 further comprising:
Instant identification of brake failure can be identified easily.
3. The method of claim 2 further comprising:
As soon as brake failure occurs in the vehicle that will be notified to the driver to avoid major accidents and it allows the driver to keep the vehicle in the safe lane.
4. The method of claim 3 further comprising:
Once the driver brought the vehicle to safer lane, driver will acknowledge the fault and apply the ABCS / backup brake failure protection system to stop the vehicle.
5. The method of claim 3 further comprising:
In addition, by considering the recovery of the vehicle from the brake failure, a message will be sent to nearest service station.

Applicant(s): SURESH D. S.

ABSTRACT

AUTOMATED BRAKE CONTROL SYSTEM

Vehicle accidents are quite common in news these days. The recent statistics reveals that approximately 35% to 40% of vehicle accidents are due to brake failure. This brake failure is due to improper maintenance and irregular brake wire and brake oil monitoring. In that situation it is difficult to control/stop the vehicle when it is on the traffic lane during driving.

The proposed Automated Brake Control system (ABCS) aims to detect the fault and instantly apply the secondary brake to make control of the vehicle and stop the vehicle at the above said situation. This system also consists of notification mechanism with the buzzer which notifies/alerts the driver about the failure of the brake. So that the vehicle will be brought to the safe lane and it can be stopped. This ABCS is a low cost, simple in design and operation backup protection system.

6
PATENT OFFICE CHENNAI 26/02/2016 14:05

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Dated: 10 / 03/2016

To

Mr. Suresh D. S.
Director & Principal,
Channabasaveshwara Institute of Technology
N. H. 206, Gubbi - 572 216,
Karnataka, India.

Sub: Supply of Certified Copy in respect of Application No. 201641006047.

Sri,

With reference to your letter dated 22/02/2016 on the above subject and to forward herewith Certified Copy for the above mentioned Patent Applications as desired by you.

Yours faithfully

(DR.S.P.SUBRAMANIYAN)
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994424824

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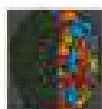
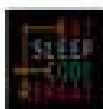
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9844903445

Mr. SRIRAM G N

Mr. DEEPAK G S

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Start

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Test through
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10th May 2020
Final Result
Announcement



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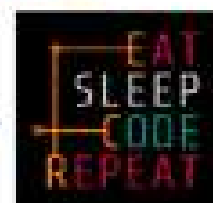


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Student Coordinator

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CERTIFICATE OF GRANT

FOR A PATENT

Patent number: 2021101573

The Commissioner of Patents has granted the above patent on 12 May 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Dr. Rajashakar Patil, Professor of Mechanical Engineering, Flat No. D /01, Kolte Patil Raaga Apartments, Bidhanahalli Hobli, Kannur, Bangalore 562149 India

Mr.Kalpesh Sunil Kamble, Assistant Professor of Mechanical Engineering, SSPM's COE, Kankavli, Sindhudurg Maharashtra 418602 India

Dr N Jagadeesh, Assistant Professor of Automobile Engineering, P E S College of Engineering Mandya Karnataka 571401 India

Dr. Bharath V G, Assistant Professor of Mechanical Engineering, 419, Gyan Ascent, AMS Layout, Vidyaranyapura, Near Nativity Church, Bengaluru-560097 India

Devaraj E, Assistant Professor of Mechanical Engineering, No 2413,LIG B Sector,behind showoff showroom, Yelahanka new town-560064 India

R Vara Prasad Kaviti, Assistant Professor of Mechanical Engineering, CMRU Main campus, Off Hennur, Bagalur Main Road, Chagalatti, Near Kempegowda international airport, Bangalore 562149, India

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Dr. Shaik Dilukush, Assistant Professor of Rajiv Gandhi university of knowledge Technologies- (RGUKT), Nuzvid campus, Nuzvid, Andhra Pradesh India

Dr J Viswanatha Rao, professor, Electrical and Electronics engineering, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Telangana India

Dr Girish D P Professor, Department of Mechanical Engineering, Government engineering college, janapada loka Ramanagara, Karnataka 562159, India

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Kiran Gowd M.R, Assistant Professor, Department of Mechanical Engineering, Channabasaveshwara Institute of Technology, NH-206,Gubbi, Tumkur, Karnataka 572216, India

Title of invention:

DEVELOPMENT OF MEGAWATT WIND TURBINE FOR OPTIMAL MANAGEMENT OF SMART AGRICULTURAL FARMS

Name of inventor(s):

Rajashakar Patil, Kalpesh Sunil Kamble, N Jagadeesh, Bharath V G, Devaraj E, R Vara Prasad Kaviti, T CH Anil Kumar, Shaik Dilukush, J Viswanatha Rao, Girish D P, Manjunath Gowda M.R, Kiran Gowd M.R

Term of Patent:

Eight years from 27 March 2021



Dated this 12th day of May 2021

Commissioner of Patents

CERTIFICATE OF GRANT

INNOVATION PATENT

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.

Patent number: 2021101573



Dated this 12th day of May 2021

Commissioner of Patents



E-mail: chennaipatent@ipc.in
वेबसाइट/Website: www.pdia.nic.in



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MINISTRY OF COMMERCE & INDUSTRY
DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE
PATENT OFFICE
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दुरभाष/Telephone : 044-2250 5200
: 044-2250 5285
RMID : 044-2250 5288

संख्या / No. POC/CERTIFIED COPY/ H 8 3

दिनांक/ Date : 09.06.2021

To


Mr. R. Sekar,
Research Scholar,
Channabasaveshwara Institute
Of Technology, NH - 206,
BH Road, Gubbi - 572 216,
Tumkur (District),
Karnataka, India.

Sub : Supply of Certified Copies in respect of Patent Application No.
202141019814.

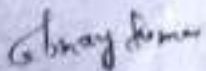
Sir,

With reference to your letters dated 30/04/2021 on the above subject and to forward herewith Certified Copies for the above mentioned Patent Applications.

Yours faithfully


(MS. SRIRUPA MUKHERJEE)
ASSISTANT CONTROLLER OF PATENTS AND DESIGNS

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THE PATENT OFFICE

जिस किसी से संबन्धित हो
TO WHOMSOEVER IT MAY CONCERN

प्रमाणित किया जाता है कि निम्नलिखित पेटेंट आवेदन के संबंध में फाइल दस्तावेज(जो) इसके साथ संलग्न है।

undersigned, being an officer duly authorized to sign and issue the certificate on behalf of the Controller General of Patents, Designs and Trademarks in accordance with the provisions of Section 73(3) of the Patents Act, 1970, hereby certify that annexed hereto is a true and correct copy of the document(s) as filed in connection with the following Patent Application:

आवेदन संख्या(a) Application Number: 202141019814

दस्तावेज प्रस्तुत करने की तारीख(b) Date of Filing: 30/04/2021

दस्तावेज(जो) का नाम:

Name of the document(s) requested: Complete Specification

यह पेटेंट अधिनियम, 1970 की धारा 147(1) के अधीन मुझमें निहित शक्तियों के तहत जारी किया गया है।

This certificate is issued under the powers vested in me U/S 147(1) of The Patents Act, 1970.

1970

This is 06th day of May 2021

नियंत्रक पेटेंट व डिजाइन/Controller of Patents and Designs
(प्राधिकृत हस्ताक्षरी/Authorised Signatory)

**FORM 1**

70028522824 (S) (ICE USE ONLY)

THE PATENTS ACT 1970
(39 of 1970)

&

The Patents Rules, 2003**APPLICATION FOR GRANT OF PATENT**

(See section 7, 54 & 135 and rule 20(1))

Application No: 202141019814
Filing Date: 30/04/2021
Amount of Fee Paid: 1750/-
CBR No: 15906
Signature: MK**1. APPLICANT(S)**

Name	Nationality	Address
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2. INVENTOR(S)

Name	Nationality	Address
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2. Dr. SURESH D S	INDIAN	Dr. SURESH D S Professor, Department of ECE Channabasaveshwara Institute of Technology NH-206, BH Road, Gubbi - 572 216 Tumkur (District)- Karnataka
3. Dr. NAGANAGOUDA H	INDIAN	Dr. NAGANAGOUDA H Former Director, National Training Centre for Solar Technology Karnataka Power Corporation Limited (KPCL) Bangalore - Karnataka

3. TITLE OF THE INVENTION: MODULAR DC-DC POWER CONVERTER SUITABLE FOR MULTIPLE RENEWABLE ENERGY SOURCES WITH TRANSIENT AND STEADY-STATE CONTROL FACILITY**4. ADDRESS FOR CORRESPONDENCE OF APPLICANT/AUTHORIZED PATENT AGENT IN INDIA**SEKAR R
Research Scholar
Channabasaveshwara Institute of Technology
NH-206, BH Road, Gubbi - 572 216
Tumkur (District)- Karnataka
Mob: +91-9740778007
Email: sekar rp@gmail.com**5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY**

Country	Application Number	Filing Date	Name of the Applicant	Title of the Invention

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

30-Apr-2021/37626/202141019814/Form 1

International application number	International filing date as allotted by receiving office
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7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

Original (first) application number	Date of filing of original (first) application
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8. PARTICULARS FOR FILING PATENT OF ADDITION

Main application / Patent Number	Date of filing of main application
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9. DECLARATIONS:

(i) Declaration by the Inventor(s)

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

(a) Date: 27/04/2021

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

(c) Name(s) : SEKAR R | Dr. SURESH D S | Dr. NAGANAGOUDA H

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

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

~~(a) Date~~

~~(b) Signature(s)~~

~~(c) Name(s) of the signatory~~

(iii) Declaration by the applicant(s):

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

- I am/we are in possession of the above-mentioned invention.
- The provisional/~~complete~~ specification relating to the invention is filed with this application.
- ~~The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.~~
- There is no lawful ground of objection to the grant of the Patent to me/us.
- I am/We are the assignee or legal representative of true & first inventors.
- ~~The application or each of the applications, 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-6.
- ~~The application is divided out of my/our application, particulars of which are given in Para-7, and pray that this application may be treated as deemed to have been filed on _____ under sec. 16 of the Act.~~
- ~~The said invention is an improvement in or modification of the invention particulars of which are given in Para-8.~~

10. Following are the attachments with the application:

30-Apr-2021/37626/202141019814/Form 1

- (a) Provisional specification / Complete specification
 (b) Complete specification (in conformation with the international application) / as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies); No. of pages _____, No. of claims _____
 (c) Drawings (in conformation with the international application) / as amended before the international Preliminary Examination Authority (IPEA), as applicable (2 copies); No. of sheets _____
 (d) Priority documents—
 (e) Translation of priority document / Specification / International Search Report—
 (f) Statement and undertaking on Form 3—
 (g) Power of Authority—
 (h) Declaration of inventorship on Form 5—
 (i) Sequence listing in electronic form—
 (j) Request for Certified Copy

Fee Rs 2850/- in Cash / Cheque / Bank Draft bearing no. 010295.... Date.. 27/04/2021 on I.P.B.I. Bank, Tumkur, Bank.

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

Dated this 27th day of April, 2021

Signature: -

Name: -

SEKAR R

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

- Note:- *Repeat boxes in case of more than one entry.
 *To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
 *Tick (✓)/cross (x) whichever is applicable/not applicable in declaration in para-9.
 *Name of the inventor and applicant should be given in full, family name in the beginning.
 *Complete address of the inventor and applicant should be given stating the postal index no./code, state and country.
 *Strike out the column(s) which is/are not applicable.
 *For fee: See First Schedule.

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