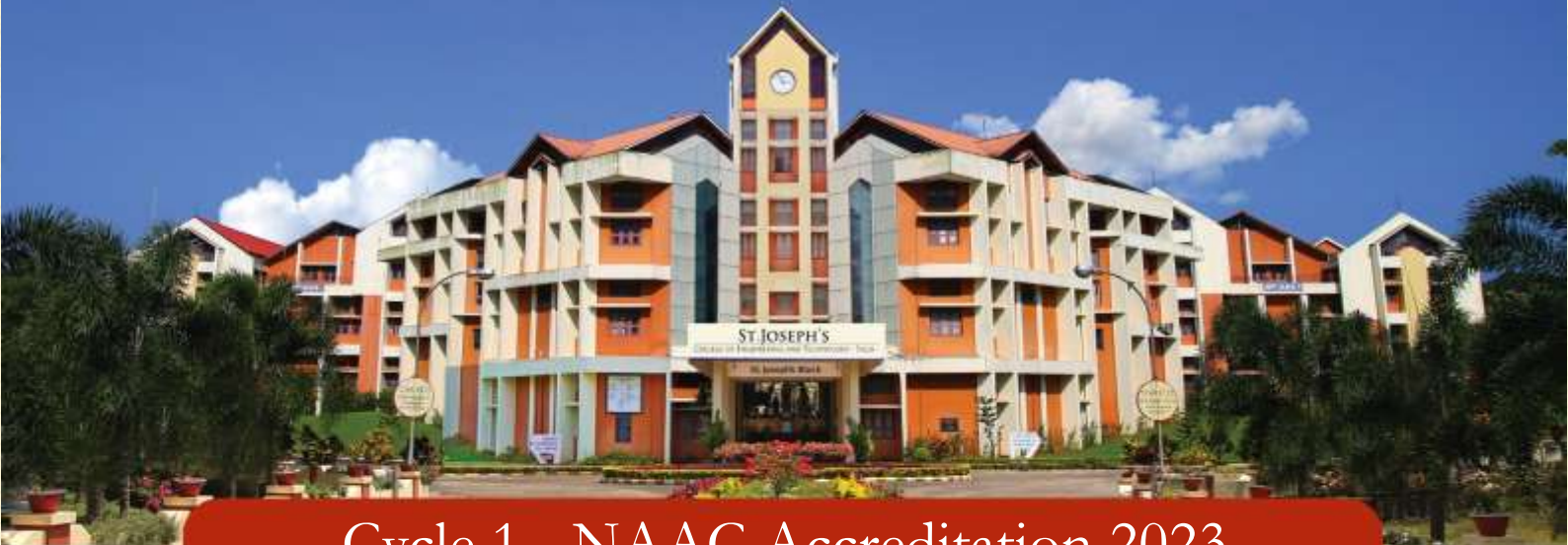




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- PALAI -

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Phone: +91 4822-239700, 239301, 239302
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Cycle 1 - NAAC Accreditation 2023

Criterion – 7.3.1

Patent Details

Submitted to:



National Assessment and Accreditation Council



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- PALAI -

Patent Details

CONTENTS

1. Patent Granted
 - a. Certificates and other Documents
 - i. Fish Cutting and Gutting Machine
 - ii. Electric Grinder
 - iii. Separator Machine
2. Patent Filed by Staff Members
 - a. Documents
3. Patents Filed by Students
 - a. Documents



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AND TECHNOLOGY,
- PALAI -

PATENTS GRANTED

S.No	Faculty Name	Title of Design/Inventions
1	Dr. Binoy Baby, Professor & Head - ME Mr. Don George Kurian, Asst. Prof, ME	Fish Cutting and Gutting Machine
2	Dr. Binoy Baby, Professor & Head	Electric Grinder
3	Dr. Binoy Baby, Professor & Head Dr. Jilse Sebastian, Associate Professor, ME	Separator Machine for Separating MACE from NUTMEG





ORIGINAL

No. 89035

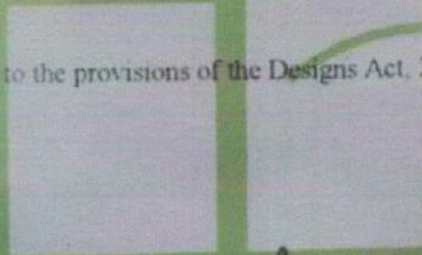
भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 311787
Date 05/11/2018
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 15-03 in respect of the application of such design to SEPARATOR (GRAIN) (MACHINE FOR SEPARATING MACE FROM NUTMEG) in the name of 1. BISSMON THOMAS, PAZHAYAMPILLIL HOUSE, SANTHIPURAM, PERUYA P.O., KOTTAYAM, KERALA: 686610. 2. AJITH PAYYAMPALLIL JOSE, PAYYAMPALLIL HOUSE, NELLIPPARA P.O. ALAKODE, KANNUR, KERALA: 670571. 3. ANTONY JOSE, PYNADATH HOUSE, PADUVAPURAM P.O. EDACKUNNU, KARUKUTTY, ANGAMALY, ERNAKULAM, KERALA: 683576. 4. AKASH JOSEPH, SURYA, THEKKUKUTTU HOUSE, PERIMBADARI P.O. MANNARKKAD, PALAKKAD, KERALA: 678762., ET AL.

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001



Okraple

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*The reciprocity date (if any) which has been allowed and the name of the country.
Copyright in the design will subsist for ten years from the date of Registration, and may under the terms of the Act and Rules, be extended for a further period of five years.
This Certificate is not for use in legal proceedings or for obtaining registration abroad

FEBIN JAMES,
2ND FLOOR, PEACE TOWER, OPP. DISTRICT
PANCHAYATH OFFICE, NEAR COLLECTORATE,
AYYANTHOLE, THRISSUR, PIN 680003, KERALA



Date of Issue 07/07/2020 13:23:00

Design Application Details

Application Number: 311787
Cbr Number: 19149
Cbr Date: 05/11/2018 16:13:16
Applicant Name:

1. Bissmon Thomas,
2. Ajith Payyampallil Jose,
3. Antony Jose,
4. Akash Joseph,
5. Dr. Binoy Baby,
6. Dr. Jilse Sebastian,

Design Application Status

Application Status: Design Accepted and Published, Journal No is 28/2020 and Journal Date is 10/07/2020

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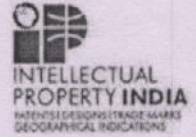
Disclaimer: Application status is available for the application filed on or after 1st April 2009 with application no 222230. The information under "Design Application Status" is dynamically retrieved and is under testing, therefore the information retrieved by this system is not valid for any legal proceedings 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

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Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India



Status : Inforce

Inforce upto : 05/11/2028

Design Number	: 311787	Filing Date	: 05/11/2018
Type of Application	: ORDINARY	Class:Subclass	: 15-03
Convention Country/IGO	:	Reciprocity Date	:
Notification Date	: 10/07/2020		:
Name of Article	: SEPARATOR (GRAIN) (MACHINE FOR SEPARATING MACE FROM NUTMEG)		

Sl No	Name of Registered Proprietor	Address
1	Bissmon Thomas,	Pazhayampillil House, Santhipuram, Peruva P.O., Kottayam, Kerala: 686610.
2	Ajith Payyampallil Jose,	Payyampallil House, Nellippara P.O. Alakode, Kannur, Kerala: 670571.
3	Antony Jose,	Pynadath House, Paduvapuram P.O. Edakkunnu, Kerkukutty, Angamaly, Ernakulam, Kerala: 683576.
4	Akash Joseph,	Surya, Thekkukuttu House, Perimbadari P.O. Mannarkkad, Palakkad, Kerala: 678762.
5	Dr. Binoy Baby,	Professor and Head, Department of Mechanical Engineering, St. Joseph's College of Engineering and Technology, Palai, Kottayam – 686579.
6	Dr. Jilse Sebastian,	Assistant Professor, Department of Mechanical Engineering, St. Joseph's College of Engineering and Technology, Palai, Kottayam – 686579.





ORIGINAL

No. 104046

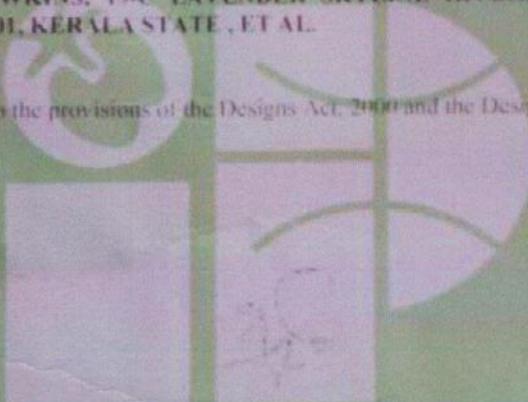
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GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 308563
Date 07/08/2018
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 31-00 in respect of the application of such design to ELECTRIC GRINDER in the name of L.DARSHAN PRATHEEP, SOMADEEP, EDAPPALLY, PALAKKAPARAMBIL ROAD, H NO. 37/2292, COCHIN: 682024, KERALA STATE 2. ELVIN PIOUS, MECHERY HOUSE, EDEN GARDEN CAICO ROAD, KURIACHIRA P.O. THRISSUR-680006, KERALA STATE 3. JOBIN MATHEW, MUNDATHANATHU HOUSE, MOOLAMATTOM P O, IDUKKI-685589, KERALA STATE 4. GEORGE HAWKINS, 19-C LAVENDER SKYLINE RIVERDALE, THRIPI NITHRA, ERNAKULAM, PIN: 682301, KERALA STATE, ET AL.

in pursuance of and subject to the provisions of the Designs Act, 2001 and the Designs Rules, 2001.



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PANCHAYATH OFFICE, NEAR COLLECTORATE,
AYYENTHOLE, THRISSUR, PIN 680003, KERALA

Date of Issue 29/10/2021 12:19:53



Design Application Details

Application Number: 308563
Cbr Number: 13594
Cbr Date: 07/08/2018 16:54:33
Applicant Name:
1. Darshan Pratheep,
2. Elvin Pious,
3. Jobin Mathew,
4. George Hawkins,
5. Mr. Peter Jose,
6. Dr. Binoy Baby,

Design Application Status

Application Status: Design Accepted and Published, Journal No is 45/2021 and Journal Date is 05/11/2021

[Back](#)

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:

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Status : Inforce

Inforce upto : 07/08/2028

Design Number	:	308563	Filing Date	:	07/08/2018
Type of Application	:	ORDINARY	Class:Subclass	:	31-00
Convention Country/IGO	:		Reciprocity Date	:	
Notification Date	:	05/11/2021		:	
Name of Article	:	ELECTRIC GRINDER			

Sl No	Name of Registered Proprietor	Address
1	Darshan Pratheep,	Somadeep, Edappally, Palakkaparambil Road, H No. 37/2292, Cochin: 682024, Kerala State
2	Elvin Pious,	Mechery House, Eden Garden Caico Road, Kuriachira P.O. Thrissur-680006, Kerala State
3	Jobin Mathew,	Mundathanathu House, Moolamattom P O, Idukki-685589, Kerala State
4	George Hawkins,	19-C Lavender Skyline Riverdale, Thripunithra, Ernakulam, Pin: 682301, Kerala State
5	Mr. Peter Jose,	Kuthiravellil House, Karimannor. P.O. Thodupuzha, Pin: 685581, Kerala State
6	Dr. Binoy Baby,	HOD, Dept. of Mechanical Engineering SJ CET Pala, Pin: 686579, Kerala State

Address of Service : 2nd Floor, Peace Tower, Opp. District Panchayath Office, Near Collectorate, Ayyenthole, Thrissur, Pin-680003, Kerala





ORIGINAL

No. 80472

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CERTIFICATE OF REGISTRATION OF DESIGN

Design No. 298951
Date 30/10/2017
Reciprocity Date*
Country

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 31-00 in respect of the application of such design to FISH CUTTING AND GUTTING MACHINE in the name of 1. DR. BINOY BABY, HOD, DEPARTMENT OF MECHANICAL ENGINEERING, ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI- 686 579, KERALA STATE. 2. MR. DON GEORGE KURIAN, ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI- 686 579, KERALA STATE. 3. NESEEF AZEEZ, THENAMACKAL HOUSE, KURUVAMOOZHYP.O, MANANGALLOOR KOTTAYAM, PIN : 686509, KERALA STATE. 4. MINIL ROY, THANNICKAMYALIL HOUSE, WEST KODIKULAM P.O, THODUPUZHA, IDUKKI (DIST), KERALA, PIN : 685582, KERALA STATE., ET AL.

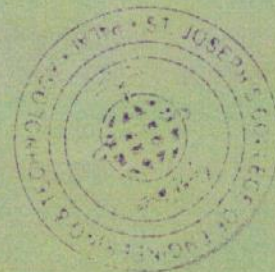
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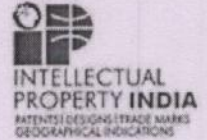
FEBIN JAMES,
FABIN JAMES, 2ND FLOOR, PEACE TOWER, OPP,
COLLECTORATE, AYYENTHOLE, THRISSUR, PIN
680003, KERALA

Date of Issue 28/08/2019 13:57:13





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Ministry of Commerce & Industry,
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Status : Inforce

Inforce upto : 30/10/2027

Design Number	:	298951	Filing Date	:	30/10/2017
Type of Application	:	ORDINARY	Class:Subclass	:	31-00
Convention Country/IGO	:		Reciprocity Date	:	
Notification Date	:	06/09/2019		:	
Name of Article	:	Fish Cutting and Gutting Machine			

Sl No	Name of Registered Proprietor	Address
5	Nithin Babu,	Vazhayil House, Monippally P.O, Kottayam (Dist), Kerala, Pin : 686636, Kerala State.
6	Robin Tomy,	Periyappuram House, Mulakulam North P.O, Piravom, Ernakulam (Dist), Pin : 686664, Kerala State.
1	Dr. Binoy Baby,	Hod, Department of Mechanical Engineering, St. Joseph's College of Engineering and Technology, Palai- 686 579, Kerala State.
2	Mr. Don George Kurian,	Assistant Professor, Department of Mechanical Engineering, St. Joseph's College of Engineering and Technology, Palai- 686 579, Kerala State.
3	Neseef Azeef,	Thenammackal House, Kuruvamoozhy P.O, Manangalloor Kottayam, Pin : 686509, Kerala State.
4	Minil Roy,	Thannickamyallil House, West Kodikulam P.O, Thodupuzha, Idukki (Dist), Kerala, Pin : 685582, Kerala State.





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PATENTS FILED

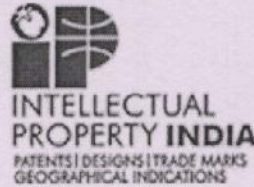
S.No	Faculty Name	Title of Design/Inventions
1	Dr. Sruthy S, Associate Professor, CSE	Design an IoT driven system using Deep Learning to detect damage to steel frames
2	Dr. Arun P, Associate Professor & Head-ECE	Automated Milk Collection Centre for Indian Villages
3	Dr. Giby Jose, Associate Professor & Head-ECS	Digital Stethoscope and Pulmonary Diagnostic System
4	Dr. Giby Jose, Associate Professor & Head-ECS	System for Validating Mobility of a Patient and a method thereof
5	Dr. Giby Jose, Associate Professor & Head-ECS	A Spinal Cord Posture Monitoring apparatus and a method thereof
6	Prof. Ance Mathew, HoD- CE	The influence of different treatments applied to flax fibers on different properties of mortar reinforced by these fibers
7	Mr. Tom Zacharia, Assistant Professor, ME	Machine for manufacturing Candles





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Department of Industrial Policy & Promotion,
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Government of India

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



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

Application Details

APPLICATION NUMBER	202241042635
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	26/07/2022
APPLICANT NAME	<ol style="list-style-type: none"> 1 . Dr. Gouri M.S, Basелиos Mathews II College of Engineering 2 . Dr.Sruthy S, St. Joseph's College of Engineering and Technology 3 . Dr.R.V. Siva Balan, CHRIST (Deemed to be University) 4 . Akhil KK, Vimal Jyothi engineering college 5 . Dr. Kim J Seelan, Basелиos Mathews II College of Engineering 6 . Dr.M.Subburaj, Shadan College of Engineering and Technology 7 . Dr. Liji R F, John Cox Memorial CSI Institute of Technology, Kannammoola 8 . Dr. M. Ravichandran, Shadan College of Engineering and Technology 9 . Dr. Jothikumar. R, Shadan College of Engineering and Technology 10 . Dr. Lim J Seelan, John Cox Memorial CSI Institute of Technology
TITLE OF INVENTION	Design an IoT-driven system using deep learning to detect damage to steel frames
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	gourimohans@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/07/2022

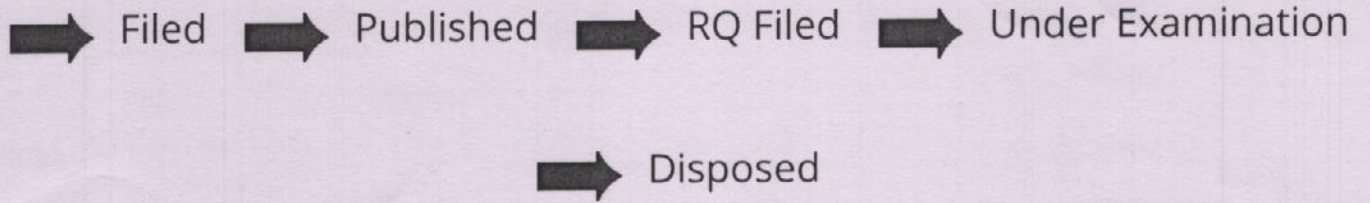


Application Status

APPLICATION STATUS

Awaiting Request for Examination

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निर्गमन सं. 47/2020
ISSUE NO. 47/2020

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दिनांक: 20/11/2020
DATE: 20/11/2020

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041049776 A

(19) INDIA

(22) Date of filing of Application :13/11/2020

(43) Publication Date : 20/11/2020

(54) Title of the invention : AUTOMATED MILK COLLECTION CENTRE FOR INDIAN VILLAGES

(51) International classification :A01J5/007
(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 :

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Address of Applicant :INDIAN NATIONAL Professor & Principal, Department of Computer Science and Engineering, Vivekanandha College of Technology for Women, Tiruchengode, Tamil Nadu 637205, India Tamil Nadu India

2)Dr. S. GOPIKRISHNAN

3)SHEMITHA P A

4)V.ANUSUYA

5)Dr. R. SABITHA

6)Dr.R.INDHUMATHI

7)Dr. ARUN.P

8)Dr.A.KINGSLY JABAKUMAR

9)Dr. S. A. SIVAKUMAR

(72)Name of Inventor :

1)Dr C G RAVICHANDRAN

2)Dr. S. GOPIKRISHNAN

3)SHEMITHA P A

4)V.ANUSUYA

5)Dr. R. SABITHA

6)Dr.R.INDHUMATHI

7)Dr. ARUN.P

8)Dr.A.KINGSLY JABAKUMAR

9)Dr. S. A. SIVAKUMAR

(57) Abstract :

Abstract These days the world is quicker. In everyday life prerequisites, milk takes up significant spot. So this proposed framework will change Indian rancher"s way of life. Town Level Milk Collection Center In-control is liable for obtaining and taking care of huge volumes of milk from numerous individual milk vendors. We can give a brilliant framework to gather the milk from the people and paying them. The amount alongside the card number will be put away in the cloud. Consistently the bills will be created for each rancher, so that in-control can pay them. Administrator will be given a versatile App utilizing which he can screen all boundaries. Milk dissemination and wellbeing is of high worry as it includes the strength of 90% of our general public. Our venture, milk appropriation observing framework focuses on the virus chain upkeep and milk waste shirking. The framework depends on Internet of Things and information mining. Generally milk is provided in jars with least checking which may bring about milk getting ruined before its utilization, particularly during transportation anytime of time which makes merchants think about milk waste simply after the milk has been ruined totally. The sensor based framework will gauge the pH estimation of milk and decide its quality. The all out number of milk stall in every zones whose information is open any time in the organization. The load cell present in the framework gauges the amount of the milk.

No. of Pages : 12 No. of Claims : 6



Application Details

APPLICATION NUMBER	202041049776
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/11/2020
APPLICANT NAME	1 . Dr C G RAVICHANDRAN 2 . Dr. S. GOPIKRISHNAN 3 . SHEMITHA P A 4 . V.ANUSUYA 5 . Dr. R. SABITHA 6 . Dr.R.INDHUMATHI 7 . Dr. ARUN.P 8 . Dr.A.KINGSLY JABAKUMAR 9 . Dr. S. A. SIVAKUMAR
TITLE OF INVENTION	AUTOMATED MILK COLLECTION CENTRE FOR INDIAN VILLAGES
FIELD OF INVENTION	AGRICULTURE ENGINEERING
E-MAIL (As Per Record)	drsasivakumar@gmail.com
ADDITIONAL-EMAIL (As Per Record)	drsasivakumar@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/11/2020

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed



FORM 1
THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
APPLICATION FOR GRANT OF PATENT
[See sections 7,54 & 135 and rule 20(1)]

(FOR OFFICE USE ONLY)

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

1. APPLICANT(S):

Sr.No.	Name	Nationality	Address	Country	State
1	Dr C G RAVICHANDRAN	India	INDIAN NATIONAL Professor & Principal, Department of Computer Science and Engineering, Vivekanandha College of Technology for Women, Tiruchengode, Tamil Nadu 637205, India	India	Tamil Nadu
2	Dr. S. GOPIKRISHNAN	India	INDIAN NATIONAL Assistant. Professor (Sr. Grade-1), School of Computer Science and Engineering, VIT-AP University, Amaravathi. Andhra Pradesh - 522 237	India	Andhra Pradesh
3	SHEMITHA P A	India	INDIAN NATIONAL Assistant Professor, Dept of Computer Science and Engineering, IES College of Engineering, Thrissur District, Chitilappilly, Kerala 680551	India	Kerala
4	V.ANUSUYA	India	INDIAN NATIONAL Assistant Professor (Senior Grade), Department of Computer Science and Engineering, Ramco Institute of Technology, Rajapalayam, Tamil Nadu 626117	India	Tamil Nadu
5	Dr. R. SABITHA	India	INDIAN NATIONAL Professor, Department of Electronics and Communication Engineering, Hindustan College of Engineering and Technology,	India	Tamil Nadu

			Coimbatore, Tamil Nadu 641050, India		
6	Dr.R.INDHUMATHI	India	INDIAN NATIONAL Assistant Professor, Department of Computer Science, Mahendra Arts and Science College, Kaalipatti, Namakkal(DT), Tamil Nadu 637501	India	Tamil Nadu
7	Dr. ARUN.P	India	INDIAN NATIONAL Associate Professor Dept. of Electronics and Communication Engineering St.Joseph's College of Engineering and Technology, Palai, Choondacherry P.O Bharananganam - 686579 Kerala, India	India	Kerala
8	Dr.A.KINGSLY JABAKUMAR	India	INDIAN NATIONAL Assistant Professor Department of Biomedical Engineering Dhaanish Ahmed Institute of Technology Coimbatore 641 105, Tamil Nadu, India	India	Tamil Nadu
9	Dr. S. A. SIVAKUMAR	India	INDIAN NATIONAL Professor & Head - ECE, Ashoka Women's Engineering College, Kurnool, Andhra Pradesh, India	India	Andhra Pradesh



2. INVENTOR(S):

Sr.No.	Name	Nationality	Address	Country	State
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2	Dr. S. GOPIKRISHNAN	India	INDIAN NATIONAL Assistant. Professor (Sr.Grade-1), School of Computer Science and Engineering, VIT-AP University,	India	Andhra Pradesh

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**OFFICIAL JOURNAL
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निर्गमन सं. 38/2020
ISSUE NO. 38/2020

शुक्रवार
FRIDAY

दिनांक: 18/09/2020
DATE: 18/09/2020



पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041038508 A

(19) INDIA

(22) Date of filing of Application :07/09/2020

(43) Publication Date : 18/09/2020

(54) Title of the invention : DIGITAL STETHOSCOPE AND A PULMONARY DIAGNOSTIC SYSTEM

(51) International classification

:A61B0007020000,
A61B0007040000,
A61B0005080000,
A61B0005000000,
G16H0050200000

(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 :

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Address of Applicant :ASSOCIATE PROFESSOR,

BIOMEDICAL ENGINEERING DEPT, KARUNYA
INSTITUTE OF TECHNOLOGY AND SCIENCES, KARUNYA
NAGAR, COIMBATORE, TAMILNADU, INDIA-641114,
INDIA. Tamil Nadu India

(72)Name of Inventor :

1)Dr. MANIMEGALAI

2)JOHN AMOSE

3)Dr. S. BHAVANI

4)E. KANNAMMAL

5)Dr. GIBY JOSE

6)Dr. ANOOPA JOSE CHITILAPPILLY

7)Dr. A. MAGESH

8)Dr. K. MUTHULAKSHMI

9)Dr. P. PRADEEPA

10)Dr. S. GOPINATH

11)Dr. K. GAYATHRI DEVI

12)Dr. C. SENTHILKUMAR

13)MADAN MOHAN CHODAVARAPU

(57) Abstract :

ABSTRACT DIGITAL STETHOSCOPE AND A PULMONARY DIAGNOSTIC SYSTEM The present invention discloses a digital stethoscope based non - invasive diagnostic system using artificial intelligence with pulmonary disease diagnosis capabilities. The digital stethoscope (21) comprises of a ON switch (22), OFF switch (23), a charging port (25), an LED (24), a holder mechanism (26) and a diaphragm (30). Said digital stethoscope (21) comprising at least an electret microphones (23a, 23b) and a microprocessor (28) wherein said stethoscope is wirelessly connected to artificial intelligence unit (31). FIG-1

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



पेटेंट कार्यालय
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(19) INDIA

(22) Date of filing of Application :13/07/2020

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(54) Title of the invention : SYSTEM FOR VALIDATING MOBILITY OF A PATIENT AND A METHOD THEREOF

(51) International classification

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(57) Abstract :

The present invention relates to the field of acquiring vital information and tracking patients to validate the mobility in a pre-defined constraint environment. The system (1) comprises of a monitoring device (11), a modem (21) and a server (31) characterized in that said monitoring device (11) is connected to the modem (21) through nordic semiconductor based radio frequency transceiver (17, 22), said modem (21) connected to the server (31) through communication means (27). FIG-1

No. of Pages : 19 No. of Claims : 10



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(19) INDIA

(22) Date of filing of Application :28/10/2021

(21) Application No.202141049331 A

(43) Publication Date : 03/12/2021

(54) Title of the invention : A SPINAL CORD POSTURE MONITORING APPARATUS AND A METHOD THEREOF

(51) International classification :A61B0005110000, A61B0005000000, A63B0071060000,
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(86) International Application No :NA
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(57) Abstract :
The present invention provides an apparatus for monitoring human spinal postures and a method to identify and correct erroneous postures. Said apparatus (31) comprises of an infrared sensor (32), a charging port (33), a speaker (34), a plurality of ultrasonic sensor (35), a plurality of pressure sensor (36), a flex sensor (37), a vibration sensor (38), an accelerometer sensor (39), a micro electro mechanical sensor (40), a fibre optic bend sensor (41), a gyroscope sensor (42), a transceiver (43), a battery (44) and a processing unit (45). The apparatus (31) employs data collection (45a), sensor fusion (45b), data analysis (45c) and prediction (45d) to determine posture and provide voice based instruction for posture correction. FIG-1

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



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(21) Application No.202141028760 A

(19) INDIA

(22) Date of filing of Application :26/06/2021

(43) Publication Date : 09/07/2021

(54) Title of the invention : THE INFLUENCE OF DIFFERENT TREATMENTS APPLIED TO FLAX FIBERS ON DIFFERENT PROPERTIES OF MORTAR REINFORCED BY THESE FIBERS

(51) International classification	:C04B0028020000, C04B0111000000, D06M0010020000, A61K0036550000, C04B0018240000	(71)Name of Applicant : 1)Dr.A.N.SWAMINATHEN Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF CIVIL ENGINEERING, SREE DATTHA INSTITUTE OF ENGINEERING AND SCIENCE, SHERIGHUDA, IPRAHIMPATNAM, TELANGANA -501510 Telangana India 2)Dr.R.SUBASHCHANDRABOSE 3)Dr.J.REX 4)Dr. S. ROBERT RAVI 5)Dr.M.KARTHIKEYAN 6)Dr. D. MARUTHACHALAM 7)Dr.A.KUMAR 8)Ms. ANCE MATHEW 9)Mr. R. SRINIVAS PRABHU 10)Dr. SHEELA. V
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(32) Priority Date	:NA	
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(57) Abstract :

THE INFLUENCE OF DIFFERENT TREATMENTS APPLIED TO FLAX FIBERS ON THE DIFFERENT PROPERTIES OF MORTAR REINFORCED BY THESE FIBERS Several solutions for treating flax fibers have been studied in this work. This need for treatment is explained by the high water absorption capacity of flax fibers which disrupts the rheological behavior of cementitious composites in the fresh state but also affects the physical and mechanical properties in the hardened state. Three treatment solutions were explored: atmospheric plasma, mineral cement/slag coating and linseed oil coating. These treatments were optimized before the incorporation of fibers into the mortars. The hygroscopic and hydroscopic behaviors of flax fibers have been studied. It has been found that flax fibers do absorb large amounts of water very quickly (up to 140% by mass). Atmospheric plasma treatment made it possible to modify the kinetics of water absorption but not the retention capacity. Conversely, linseed oil is the only treatment that actually reduces the water absorption capacity while the cement/slag coating treatment does not modify it. It appeared necessary to take into account the presence of the treatment in the interpretation of the results and therefore to relate the measurements to the mass of raw fibers only. Failure to take into account the treatment products could lead to erroneous interpretations.

No. of Pages : 30 No. of Claims : 5



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30798

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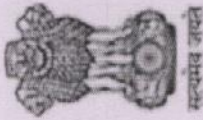


FORM2
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(39 OF 1970) &
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COMPLETE SPECIFICATON
(See section 10 and rule 13)

TITLE OF THE INVENTION:
THE INFLUENCE OF DIFFERENT TREATMENTS APPLIED TO FLAX FIBERS ON
DIFFERENT PROPERTIES OF MORTAR REINFORCED BY THESE FIBERS

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 Department of Industrial Policy & Promotion,
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Application Details

APPLICATION NUMBER	5386/CHE/2013
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/11/2013
APPLICANT NAME	TOM ZACHARIA
TITLE OF INVENTION	MACHINE FOR MANUFACTURING CANDLES
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PATENTS FILED- Students

S.No	Student Name	Department	Title of Design/Inventions
1	Mr. Joe Martin	Mechanical	Smart watch which predicts and prevents heart attack
2	Mr. Bonny Jaibu & Team	Mechanical	Automated Appam making Machine
3	Mr. Sanu Sunny & Team	Mechanical	System for automating Gear transmission in Vehicles
4	Mr. Aswin Oommen Mathai & Team	Mechanical	A Rubber tapping Machine to extract Latex from rubber tree





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Application Details

APPLICATION NUMBER	201941053108
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/12/2019
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REQUEST FOR EXAMINATION DATE	14/01/2020
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सत्यमेव जयते



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GEOGRAPHICAL INDICATIONS

Application Details

APPLICATION NUMBER	201641044582
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/12/2016
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TITLE OF INVENTION	AUTOMATED APPAM MAKING MACHINE
FIELD OF INVENTION	MECHANICAL ENGINEERING
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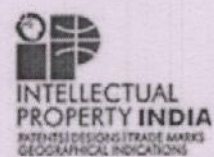
Application Details

APPLICATION NUMBER	3034/CHE/2013
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/07/2013
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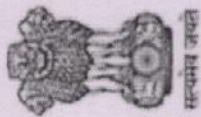
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Application Details

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APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/08/2011
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