

## **Annexure\_3.4.3**

### **Criterion III – Research, Innovations and Extension**

#### **Key Indicators - 3.4 Research Publications and Awards**

**Metric No. 3.4.3\_ Number of Patents published/awarded during  
the last five years**

**Patent Published:-**

| Title of Invention                            | Inventors                                               | Patent Application No.            | Status                    |
|-----------------------------------------------|---------------------------------------------------------|-----------------------------------|---------------------------|
| A liquid-cooled hybrid solar energy collector | Nikhil Gakkhar, Manoj S. Soni,<br><b>Sanjeev Jakhar</b> | 201711010510 A<br>(Indian Patent) | Published<br>(28/09/2018) |

*Vijit*  
06/12/2021

**REGISTRAR**  
Mody University of Science and Technology  
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2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011020255 A

(19) INDIA

(22) Date of filing of Application :13/05/2020

(43) Publication Date : 19/06/2020

(54) Title of the invention : A NOVEL HETEROCYCLIC BISMUTHINE COMPOUND FOR BIOMEDICINAL APPLICATION AND METHOD OF SYNTHESIS THEREOF

|                                               |                                                                                             |                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (51) International classification             | :C07H0019060000,<br>H01L0051420000,<br>A01N0043820000,<br>C07D0498140000,<br>A61K0009200000 | (71)Name of Applicant :<br><b>1)KANT, Ravi</b><br>Address of Applicant :Faculty of Chemical Sciences, Institute<br>of Natural Sciences & Humanities, Shri Ramswaroop Memorial<br>University, Barabanki, Uttar Pradesh, India Uttar Pradesh India<br><b>2)AMETA, Keshav Lalit</b> |
| (31) Priority Document No                     | :NA                                                                                         | (72)Name of Inventor :<br><b>1)KANT, Ravi</b>                                                                                                                                                                                                                                    |
| (32) Priority Date                            | :NA                                                                                         | <b>2)AMETA, Keshav Lalit</b>                                                                                                                                                                                                                                                     |
| (33) Name of priority country                 | :NA                                                                                         | <b>3)PANDEY, , Jaya</b>                                                                                                                                                                                                                                                          |
| (86) International Application No             | :NA                                                                                         | <b>4)GUPTA, Pramila</b>                                                                                                                                                                                                                                                          |
| Filing Date                                   | :NA                                                                                         | <b>5)KHAN, Iftikhar Ahmad</b>                                                                                                                                                                                                                                                    |
| (87) International Publication No             | : NA                                                                                        | <b>6)PANDEY, Manju</b>                                                                                                                                                                                                                                                           |
| (61) Patent of Addition to Application Number | :NA                                                                                         |                                                                                                                                                                                                                                                                                  |
| Filing Date                                   | :NA                                                                                         |                                                                                                                                                                                                                                                                                  |
| (62) Divisional to Application Number         | :NA                                                                                         |                                                                                                                                                                                                                                                                                  |
| Filing Date                                   | :NA                                                                                         |                                                                                                                                                                                                                                                                                  |

(57) Abstract :

The present invention is related to a novel heterocyclic bismuthine compound for bio-medicinal application and method of synthesis thereof. The present invention concern with the design and synthetic route of a novel heterocyclic bismuthine and characterized by melting point, elemental analysis along with spectral techniques. The synthesized compound show prominent bio-medicinal activity.

No. of Pages : 26 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011017813 A

(19) INDIA

(22) Date of filing of Application :27/04/2020

(43) Publication Date : 19/06/2020

(54) Title of the invention : A NOVEL HETEROCYCLIC BISMUTHINE COMPOUND FOR BIO-MEDICINAL APPLICATION AND METHOD OF SYNTHESIS THEREOF

|                                                  |                                                                                             |                                                                                                                                                                                                                                       |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (51) International classification                | :C09K0011060000,<br>A61K0039000000,<br>G06T0019000000,<br>C07D0239220000,<br>C07H0023000000 | (71)Name of Applicant :<br>1)AMETA, Keshav Lalit<br>Address of Applicant :Department of Chemistry, School of<br>Liberal Arts and Sciences, Mody University of Science and<br>Technology, Laxmangarh, Rajasthan, India Rajasthan India |
| (31) Priority Document No                        | :NA                                                                                         | 2)KANT, Ravi                                                                                                                                                                                                                          |
| (32) Priority Date                               | :NA                                                                                         | (72)Name of Inventor :                                                                                                                                                                                                                |
| (33) Name of priority country                    | :NA                                                                                         | 1)KANT, Ravi                                                                                                                                                                                                                          |
| (86) International Application No                | :NA                                                                                         | 2)AMETA, Keshav Lalit                                                                                                                                                                                                                 |
| Filing Date                                      | :NA                                                                                         | 3)PANDEY, Jaya                                                                                                                                                                                                                        |
| (87) International Publication No                | :NA                                                                                         | 4)Preeti Rani                                                                                                                                                                                                                         |
| (61) Patent of Addition to Application Number:NA |                                                                                             | 5)KHAN, Iftikhar Ahmad                                                                                                                                                                                                                |
| Filing Date                                      | :NA                                                                                         | 6)KUMAR, Atul                                                                                                                                                                                                                         |
| (62) Divisional to Application Number            | :NA                                                                                         |                                                                                                                                                                                                                                       |
| Filing Date                                      | :NA                                                                                         |                                                                                                                                                                                                                                       |

(57) Abstract :

The present invention disclosure is related to a novel heterocyclic bismuthine compound for bio-medicinal application and method of synthesis thereof. The disclosure presents a novel heterocyclic bismuthine compound, particularly a process of preparation of a novel heterocyclic bismuthine compound for bio-medicinal application. The novel heterocyclic bismuthine compound is

No. of Pages : 18 No. of Claims : 2

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Australian Government

IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021103847

The Commissioner of Patents has granted the above patent on 25 August 2021, and certifies that the below particulars have been registered in the Register of Patents.

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

Ravi Kant of Faculty of Chemical Sciences, Shri Ramswaroop Memorial University Barabanki Uttar Pradesh 225003 India

Keshav Lalit Ameta of Dept. of Chemistry, Mody University of Science & Technology Laksmangarh Rajasthan 332311 India

**Title of invention:**

BISMUTHINO FOR BIOMEDICINAL APPLICATION AND ITS ANALYTICAL SYNTHESIS THEREOF

**Name of inventor(s):**

Kant, Ravi and Ameta, Keshav Lalit

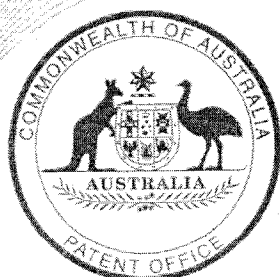
**Term of Patent:**

Eight years from 3 July 2021

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

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Dated this 25<sup>th</sup> day of August 2021

Commissioner of Patents

**PATENTS ACT 1990**

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

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011023472 A

(19) INDIA

(22) Date of filing of Application :04/06/2020

(43) Publication Date : 26/06/2020

(54) Title of the invention : A PROCESS OF PREPARING A HERBAL FACE MASK AND A HERBAL ASK THEREOF

|                                               |                                                  |                                                                                                                                                                                                                            |
|-----------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (51) International classification             | :A61K<br>36/58<br>A01N<br>65/26<br>A01N<br>43/90 | (71)Name of Applicant :<br><b>1)Prof.(Dr.) Smriti Agarwal</b><br>Address of Applicant :School of Design, Mody University of<br>Science and Technology, Lakshmangarh €“ 332311, Distt. Sikar<br>(Rajasthan) Rajasthan India |
| (31) Priority Document No                     | :NA                                              | (72)Name of Inventor :<br><b>1)Prof.(Dr.) Smriti Agarwal</b>                                                                                                                                                               |
| (32) Priority Date                            | :NA                                              |                                                                                                                                                                                                                            |
| (33) Name of priority country                 | :NA                                              |                                                                                                                                                                                                                            |
| (86) International Application No             | :NA                                              |                                                                                                                                                                                                                            |
| Filing Date                                   | :NA                                              |                                                                                                                                                                                                                            |
| (87) International Publication No             | : NA                                             |                                                                                                                                                                                                                            |
| (61) Patent of Addition to Application Number | :NA                                              |                                                                                                                                                                                                                            |
| Filing Date                                   | :NA                                              |                                                                                                                                                                                                                            |
| (62) Divisional to Application Number         | :NA                                              |                                                                                                                                                                                                                            |
| Filing Date                                   | :NA                                              |                                                                                                                                                                                                                            |

(57) Abstract :

A process and composition of preparing a herbal face mask is provided. The process includes dipping leaves of Azadirachta indica and Saraca asoca for overnight in an earthen pot; boiling dipped leaves of Azadirachta indica and Saraca asoca in boiled water in said earthen pot for 45 minutes; straining said pot a multiple times through a strainer; collecting aqueous extract of Azadirachta indica and Saraca asoca after straining; dipping a cotton fabric in presence of alum and salt in aqueous extract of Azadirachta indica and Saraca asoca for 4.5 hrs at 38 oC in said earthen pot; stirring the fabric using a wooden stick during the dipping of the fabric in said aqueous extract of Azadirachta indica and Saraca asoca ; and preparing a herbal face mask using the cotton fabric treated with aqueous extract of Azadirachta indica and Saraca asoca . The composition includes 63% Azadirachta indica by weight; 37% Saraca asoca by weight; and 4 gm Alum and 7 gm Salt 1 Litre of aqueous extract formed from 63% by weight of Azadirachta indica and 37% by weight of Saraca asoca.

No. of Pages : 16 No. of Claims : 10

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## Patent Search

|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| Invention Title         | A NOVEL WIND POWERED IOT BASED SUSTAINABLE ORGANIC COMPOST MACHINE             |
| Publication Number      | 24/2020                                                                        |
| Publication Date        | 12/06/2020                                                                     |
| Publication Type        | INA                                                                            |
| Application Number      | 202031022084                                                                   |
| Application Filing Date | 26/05/2020                                                                     |
| Priority Number         |                                                                                |
| Priority Country        |                                                                                |
| Priority Date           |                                                                                |
| Field Of Invention      | CHEMICAL                                                                       |
| Classification (IPC)    | C05F0017020000, C05F0017000000, C05F0009040000, C05F0005000000, C05F0011000000 |

## Inventor

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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|
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| Nadeem Ahmad Khan         | Assistant Professor, Civil Engineering department, Mewat Engineering Colleges, Nuh, Haryana, 122107                                                                                | India   | India       |
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| Dr P Karthigeyan          | MSME TC, Ministry of MSME, Govt of India, Bhubaneswar                                                                                                                              | India   | India       |
| Dr. Kavita Choudhary      | Associate Professor, JKLakshmipat University, Near Mahindra SEZ, Mahapura, Ajmer Road JAIPUR - 302 026, Rajasthan, India                                                           | India   | India       |
| Dr. Shantanu Saha         | , Assistant Professor, PSIT College of Higher Education, Kanpur, Kanpur - Agra - Delhi National Highway - 2, Bhauti, Kanpur, Uttar Pradesh- 209305                                 | India   | India       |
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| Ashutosh Patel            | Research scholar, Gujarat University, Navrangpura Ahmedabad Gujarat, Pincode- 380009                                                                                               | India   | India       |
| Er. Jaivir Singh Punia    | Director, Arvy Motorcycle, Plot No.: 29, Aanand Vihar, Muhana, Jaipur - 302029 Rajasthan, India                                                                                    | India   | India       |
| Rachida El Morabet        | Department of Geography, LADES lab, FLSHM, Hassan II University of Casablanca, Morocco-20000                                                                                       | MORACCO | MORACCO     |

## Applicant

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### Patent Search

|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| Invention Title         | LIQUID ALCOHOL BASED SKIN SANITIZING SOLUTION WITH ANTIVIRAL PROPERTY          |
| Publication Number      | 36/2020                                                                        |
| Publication Date        | 04/09/2020                                                                     |
| Publication Type        | INA                                                                            |
| Application Number      | 202021030325                                                                   |
| Application Filing Date | 16/07/2020                                                                     |
| Priority Number         |                                                                                |
| Priority Country        |                                                                                |
| Priority Date           |                                                                                |
| Field Of Invention      | CHEMICAL                                                                       |
| Classification (IPC)    | A61K0031455000, A61K0008340000, A61Q0017000000, A01N0025020000, B32B0027320000 |
| Inventor                |                                                                                |

| Name              | Address                                                                  | Country | Natic |
|-------------------|--------------------------------------------------------------------------|---------|-------|
| Naveen Dhingra    | SAGE University, Kailod Kartal, Indore, Madhya Pradesh India Pin -452020 | India   | India |
| Ravindra Bhardwaj | SAGE University, Kailod Kartal, Indore, Madhya Pradesh India Pin -452020 | India   | India |
| Uma Bhardwaj      | Mody University, Sikar, Rajasthan- 332311, India                         | India   | India |

| Name              | Address                                                                  | Country | Natic |
|-------------------|--------------------------------------------------------------------------|---------|-------|
| Naveen Dhingra    | SAGE University, Kailod Kartal, Indore, Madhya Pradesh India Pin -452020 | India   | India |
| Ravindra Bhardwaj | SAGE University, Kailod Kartal, Indore, Madhya Pradesh India Pin -452020 | India   | India |
| Uma Bhardwaj      | Mody University, Sikar, Rajasthan- 332311, India                         | India   | India |

#### Abstract:

The invention relates to liquid alcohol based skin sanitizing composition that are formulated for repeated use to protect from infection. The composition comprises c and skin health ingredient to help to maintain or improve skin health while also maintaining an acceptable skin feel and efficiency. The hand sanitizing composition w composition includes a solvent isopropyl alcohol from about 70% to about 90% by weight sufficient to operate as a carrier and solvent and a disinfectant. The compo includes glycerol from 0.5-2 %, tea tree oil as antiviral agent from 0.5-5 %, neem oil from 0.5-10 % as disinfectant and Tween 80 as emulsifier from 0.1-2 %.

#### Complete Specification

#### Claims:We Claim:

1. A liquid alcohol based skin sanitizing solution comprising of:  
70% to 90% of IPA by weight sufficient to operate as a carrier and solvent, isopropyl alcohol in an amount ranging from 70% to 90% w/w of the total composition;  
glycerol in an amount ranging from 0.5-2 % w/w of the total composition; tea tree oil in an amount ranging from 0.5-5 % w/w of the total composition;  
neem oil in an amount ranging from 0.5-10 % w/w of the total composition; Tween 80 in an amount ranging from 0.1-2 % w/w of the total composition;  
and water forming remainder percentage of the composition.
2. The liquid alcohol based skin sanitizing composition as claimed in claim 1 wherein the amount of isopropyl alcohol is 80 % w/w of the total composition.
3. The composition as claimed in claim 1 wherein the glycerol acts as a wetting agent.
4. The composition as claimed in any of the preceding claims wherein the tree tea oil has strong antiviral activity.
5. The composition as claimed in any of the preceding claims wherein the neem oil has potent antibacterial activity.

[View Application Status](#)

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Page last updated on: 26/06/2019

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06/12/2021  
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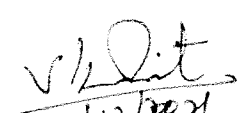
|                                                                                                                                                                                                         |                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>FORM 18 A</b><br><b>THE PATENTS ACT, 1970</b><br><b>and THE PATENT RULES, 2003</b><br><b>REQUEST FOR EXPEDITED EXAMINATION OF</b><br><b>APPLICATION FOR PATENT</b><br>[See section 11B and Rule 24C] | <b>(FOR OFFICE USE ONLY)</b><br><br>RQ. No.<br>Filing Date:<br>Amount of Fee Paid:<br>CBR No:<br>Signature |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|

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NAME : Sardul Singh Dhayal  
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NAME : Dr Avnesh Verma  
 ) NATIONALITY : IN  
 i) ADDRESS : Associate Professor, Department of Instrumentation, Kurukshetra University, Kurukshetra

NAME : Dr Satya Dev  
 ) NATIONALITY : IN  
 i) ADDRESS : Research Scholar, Department of Physics, GJUS&T, Hisar 125

  
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NAME : Ms Sonu  
 ) NATIONALITY : IN  
 i) ADDRESS : Research Scholar, Department of Physics, Mody University of Science and Technology, Lakshmangarh, Rajasthan 332 311

Statement in case of request for examination made by the applicant(s)

I hereby request that my application for patent no. **202111009913** dated March 09, 2021 for invention titled **"MOOD MONITORING SYSTEM AND METHOD THEREOF"** shall be examined under sections 12 and 13 of the Act.

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पेटेंट कार्यालय  
शासकीय जर्नल

**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

निर्गमन सं. 30/2021  
ISSUE NO. 30/2021

शुक्रवार  
FRIDAY

दिनांक: 23/07/2021  
DATE: 23/07/2021

  
06/12/2021

**REGISTRAR**

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121027473 A

(19) INDIA

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

(43) Publication Date : 23/07/2021

(54) Title of the invention : A HYBRID DEEP NEURAL NETWORK SYSTEM AND METHOD FOR GENES EXPRESSION CLASSIFICATION

|                                                  |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (51) International classification                | :C12Q0001688300,<br>G16B0025000000,<br>G16B0020000000,<br>C12Q0001688600,<br>G16B0050000000 | (71)Name of Applicant :<br>1)Dr. Ishan Y. Pandya<br>Address of Applicant :Academic Director, iClonexon Science<br>Institute Gandhinagar-Gujarat. Gujarat India<br>2)Dr Renuka Sharma<br>3)Dr. Navneet Joshi<br>4)Dr. Mandheer Kaur<br>5)Dr. Muntazir Mushtaq<br>6)Dr. Aruna sharma<br>7)Dr. Amandeep Kaur<br>8)Dr. Neera Batra<br>9)Dr. Sonali Goyal<br>10)Dr. Pavithra G<br>11)Dr. Shashi Raj K.,<br>12)Prof. Trupti Shripad Tagare |
| (31) Priority Document No                        | :NA                                                                                         | (72)Name of Inventor :<br>1)Dr. Ishan Y. Pandya<br>2)Dr Renuka Sharma<br>3)Dr. Navneet Joshi<br>4)Dr. Mandheer Kaur<br>5)Dr. Muntazir Mushtaq<br>6)Dr. Aruna sharma<br>7)Dr. Amandeep Kaur<br>8)Dr. Neera Batra<br>9)Dr. Sonali Goyal<br>10)Dr. Pavithra G<br>11)Dr. Shashi Raj K.,<br>12)Prof. Trupti Shripad Tagare                                                                                                                |
| (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<br>Number | :NA<br>:NA                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Filing Date                                      |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| (62) Divisional to Application Number            | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Filing Date                                      | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                      |

(57) Abstract :

The method comprises picking up items with gene feature type for filtering out irrelevant values in an RNA-seq file; obtaining available gene expression and annotation information using gene selection; considering TSS start location for genes with positive genomic strand and negative genomic strand for end location through a TSS localization; creating a feature window for gathering more information about genetic regulation to cover large area around TSS, and this largely supports continuity; evaluating measurement of histone modification signal in each window of 100 base pairs by applying intersection of characteristics to each histone modification file using BEDTools; and calculating median of all gene expression values for a particular cell type in the RNAseq file as a threshold value for classifying expression into high and low using a gene expression binarization, wherein if an observed value exceeds the threshold value then the gene is considered as highly expressed, otherwise low expressed.

No. of Pages : 17 No. of Claims : 9

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Controller General of Patents, Designs & Trade  
Marks



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



Docket No 45847

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VIDYA BHASKAR SINGH NANDIYAL

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## CBR Detail:

| Sr. No. | Ref. No./Application No. | App. Number             | Amount Paid | C.B.R. No. | Form Name | Remarks                                                          |
|---------|--------------------------|-------------------------|-------------|------------|-----------|------------------------------------------------------------------|
| 1       | 202111020828             | TEMP/E-1/23127/2021-DEL | 1600        | 16121      | FORM 1    | WATER LEAKAGE MONITORING AND MANAGEMENT IN SMART DRIP IRRIGATION |

| TransactionID | Payment Mode         | Challan Identification Number | Amount Paid | Head of A/C No   |
|---------------|----------------------|-------------------------------|-------------|------------------|
| N-0000799568  | Online Bank Transfer | 0705210005723                 | 1600.00     | 1475001020000001 |

Total Amount : ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

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### Application Details

|                                |                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NUMBER             | 202141025104                                                                                                                                                                                                                                                                                                                      |
| APPLICATION TYPE               | ORDINARY APPLICATION                                                                                                                                                                                                                                                                                                              |
| DATE OF FILING                 | 06/06/2021                                                                                                                                                                                                                                                                                                                        |
| APPLICANT NAME                 | 1 . Dr. Dayananda.P<br>2 . Prof. Shubham Joshi<br>3 . Dr. Ujjwal Kumar Nayak<br>4 . Ambrish Kumar Sharma<br>5 . Dr. Pankaj Singh<br>6 . Prof.(Dr.) Sachin Yadav<br>7 . Dr. Niranjana Murthy M<br>8 . Amulya M P<br>9 . Dr. Atul Kumar<br>10 . Mr. Amit Tiwari<br>11 . Mr. Vikrant Sharma<br>12 . Mukesh Kumar<br>13 . Ajeet Kumar |
| FIELD OF INVENTION             | SYSTEM FOR CONTROLLING VARIOUS CROP HARVEST ACTIVITIES USING BIG DATA ANALYTICS<br>BASED MACHINE LEARNING AND IOT                                                                                                                                                                                                                 |
| CLASS OF INVENTION             | COMPUTER SCIENCE                                                                                                                                                                                                                                                                                                                  |
| INVENTOR (As Per Record)       | patentpublication@gmail.com                                                                                                                                                                                                                                                                                                       |
| CONTACT E-MAIL (As Per Record) |                                                                                                                                                                                                                                                                                                                                   |
| INVENTOR (UPDATED Online)      |                                                                                                                                                                                                                                                                                                                                   |
| PRIORITY DATE                  |                                                                                                                                                                                                                                                                                                                                   |
| DATE FOR EXAMINATION DATE      | --                                                                                                                                                                                                                                                                                                                                |
| APPLICATION DATE (U/S 11A)     | 16/07/2021                                                                                                                                                                                                                                                                                                                        |

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## Search Results

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Your search for **Machine Learning And Artificial Intelligence Based Intelligent Controlling And Monitoring System For An Automatic Air Conditioner** returned 1 result.

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| Application number | Title      | Applicant(s)                                                                                                                      | Inventor(s)                                                                                                                                                                                                                                                                                           | Filing date                                                                                                                                                                                                                                            | Application status | ✓     |   |
|--------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|---|
| 1                  | 2021103400 | MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE BASED INTELLIGENT CONTROLLING AND MONITORING SYSTEM FOR AN AUTOMATIC AIR CONDITIONER | Aggarwal, Puneet Kumar DR; Dhar, Rudra Sankar DR; KR, Ankith MR; Kumar, Atul DR; Kumar, Parmod DR; M P, Amulya MR; M, Niranjnamurthy DR; Nayak, Bhagirathi PROF; P, Dayananda DR; Sharma, Anupam MR; Shrivastava, Vineet MR; Singh, Anil MR; Singh, Harendra MR; Sinha, Divyanshu MR; Tiwari, Amit MR | Kumar, Parmod; Singh, Harendra; KR, Ankith; Nayak, Bhagirathi; Dhar, Rudra Sankar; Sinha, Divyanshu; Singh, Anil; M, Niranjnamurthy; P, Dayananda; M P, Amulya; Shrivastava, Vineet; Sharma, Anupam; Aggarwal, Puneet Kumar; Kumar, Atul; Tiwari, Amit | 2021-06-16         | FILED | ✓ |

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### Application Details

|                            |                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NUMBER         | 202121023756                                                                                                                                                                                                                                                                                                 |
| APPLICATION TYPE           | ORDINARY APPLICATION                                                                                                                                                                                                                                                                                         |
| FILING DATE                | 28/05/2021                                                                                                                                                                                                                                                                                                   |
| APPLICANT NAME             | 1. Dr. Anita Santaji Mane<br>2. Dr. Atul Kumar<br>3. Mr. Amit Tiwari<br>4. Mr. Vipul Snehi<br>5. Ms. Revati Ramrao Rautrao<br>6. Mr. Vikrant Sharma<br>7. Mrs. Bhavana Sharma<br>8. Mrs. Bhawna Sachdeva<br>9. Ankit Singh Bartwal<br>10. Mr. Dinkar Kumawat<br>11. Ms Akanksha Gupta<br>12. Mr. Ankit Tyagi |
| INVENTION TITLE            | SMART SYSTEM FOR PERSONAL PROTECTIVE EQUIPMENT (PPE) WEARERS TO PROVIDE FRESH AIR USING ARTIFICIAL INTELLIGENCE & MACHINE LEARNING                                                                                                                                                                           |
| TECHNICAL FIELD            | COMPUTER SCIENCE                                                                                                                                                                                                                                                                                             |
| As Per Record)             | patentpublication@gmail.com                                                                                                                                                                                                                                                                                  |
| EMAIL (As Per Record)      | patentpublication@gmail.com                                                                                                                                                                                                                                                                                  |
| UPDATED Online)            |                                                                                                                                                                                                                                                                                                              |
| DATE                       |                                                                                                                                                                                                                                                                                                              |
| DATE FOR EXAMINATION DATE  | --                                                                                                                                                                                                                                                                                                           |
| APPLICATION DATE (U/S 11A) | 26/11/2021                                                                                                                                                                                                                                                                                                   |

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### Application Status

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## Design Application Details

Application Number: 345487-001

Cbr Number: 204742

Cbr Date: 6/30/2021 12:44:24 PM

Applicant Name:

1. Dr. Vishnu N Yadav
2. Dr. Bhavik U. Swadia
3. Dr. Jayendrasinh R. jadav
4. Dr. Ramakrishna Naik
5. Dr. Sanjay Negi
6. Mr. Tushar S. Pakwar
7. CMA Alwin Menezes
8. CMA Dr. Tushar Balkrishna Raut
9. Dr. Kiran Singh Sisodiya
10. Neha.Ramesh Dhodre
11. Megha Mittal

  
06/12/2021  
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## Design Application Status

Application Status: Application Accepted, Certificate of Design not Generated.

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### Patent Search

|                         |                                                                                                                                                                |         |             |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|
| Invention Title         | SECURE AUTOMOBILE PARKING SYSTEM                                                                                                                               |         |             |
| Publication Number      | 42/2021                                                                                                                                                        |         |             |
| Publication Date        | 15/10/2021                                                                                                                                                     |         |             |
| Publication Type        | INA                                                                                                                                                            |         |             |
| Application Number      | 202111045485                                                                                                                                                   |         |             |
| Application Filing Date | 06/10/2021                                                                                                                                                     |         |             |
| Priority Number         |                                                                                                                                                                |         |             |
| Priority Country        |                                                                                                                                                                |         |             |
| Priority Date           |                                                                                                                                                                |         |             |
| Field Of Invention      | COMPUTER SCIENCE                                                                                                                                               |         |             |
| Classification (IPC)    | G06F 21/31                                                                                                                                                     |         |             |
| Inventor                |                                                                                                                                                                |         |             |
| Name                    | Address                                                                                                                                                        | Country | Nationality |
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| Dr. Suneet Gupta        | Associate Professor, SET- Mody University of Science and Technology Lakshmangarh-332311, Rajasthan, India.                                                     | India   | India       |
| Vijay Subhash Katta     | Assistant Professor, Hindustan College of Science & Technology, Mathura-281122, India.                                                                         | India   | India       |
| Dr. Shankar Thawkar     | Assistant Professor, Hindustan College of Science & Technology, Mathura-281122, India.                                                                         | India   | India       |
| Dr. Shamik Tiwari       | Associate Professor, University of Petroleum and Energy Studies, Dehradun, Energy Acres, UPES, Bidholi, via, Prem Nagar, Dehradun, Uttarakhand, 248007, India. | India   | India       |
| Applicant               |                                                                                                                                                                |         |             |

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| Name                 | Address                                                                                                                                                        | Country | Nationality |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|
| Dr. Ajay Kumar Singh | Associate Professor, SET- Mody University of Science and Technology Lakshmangarh-332311, Rajasthan, India.                                                     | India   | India       |
| Dr. Suneet Gupta     | Associate Professor, SET- Mody University of Science and Technology Lakshmangarh-332311, Rajasthan, India.                                                     | India   | India       |
| Vijay Subhash Katta  | Assistant Professor, Hindustan College of Science & Technology, Mathura-281122, India.                                                                         | India   | India       |
| Dr. Shankar Thawkar  | Assistant Professor, Hindustan College of Science & Technology, Mathura-281122, India.                                                                         | India   | India       |
| Dr. Shamik Tiwari    | Associate Professor, University of Petroleum and Energy Studies, Dehradun, Energy Acres, UPES, Bidholi, via, Prem Nagar, Dehradun, Uttarakhand, 248007, India. | India   | India       |

**Abstract:**

The present invention relates to a secure automobile parking system, comprising, user interface installed in computing unit for booking parking platform 1 for vehicle and provides unique security code, display panel 2 coupled with an artificial intelligence based camera 3 for verifying vehicle's credentials and primary user's verification, convertible frame 4 mounted on platform 1 attached with horizontal racks 5 for extending frame 4 over racks 5 to provide secure canopy based shelter to vehicle, at least four locking clamps 6 linked with thermal imaging unit for determining user's presence within pre-set threshold range of vehicle for actuating one of clamp for locking rear tire, plurality of sensors to execute first, second, third and fourth level authentication to enable the user to unlock the clamps 6.

**Complete Specification**

The present invention relates to a secure automobile parking system that provides a high level safety of the parked vehicles, incorporating a dual functionality i.e. safeguarding user's vehicles from extreme weather conditions as well as from any theft.

**BACKGROUND OF THE INVENTION**

[0002] The automobile parking area is now becoming an integral part of the building or any multi-complex malls or companies. The parking area allows users to park their automobile for protecting the vehicles from nature's actions, such as excessive sun, heavy rain, and strong wind, among others. In this way, they preserve the paint and body of the car from dirt and dust. The parking areas are therefore necessary as they offer both protection and safety, as well as bring more peace of mind to the owner of the automobile.

[0003] It is obvious to envisage the multiplication in purchase of automobiles in near future on the basis of current trends of automobile purchase in the contemporary world. The prediction of extra automobiles lead to a scarcity of parking in accordance to user's will. As the populous regions like India already faces the problems in parking a car in an appropriate location while going for job, shopping, gym etc., thus people park the vehicles on roadsides and other inappropriate locations increasing the chances of traffic and sometimes theft of the vehicles.

[0004] Traditionally, various car parking systems have been developed that are capable of providing a sense of safety to the user. These systems were used for parking the vehicles as they provided shade to the vehicle but many of them utilizes a manual force for security such as guards. While leading with advancements in automobile security system upgraded itself with automated

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#### Application Details

|                                   |                                                                                                                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NUMBER                | 202111055001                                                                                                                                                                                                                                |
| APPLICATION TYPE                  | ORDINARY APPLICATION                                                                                                                                                                                                                        |
| DATE OF FILING                    | 27/11/2021                                                                                                                                                                                                                                  |
| APPLICANT NAME                    | 1. Pushparaj<br>2. Dr. Saurabh Gupta<br>3. Ankit Agarwal<br>4. Dr Rajni Saluja<br>5. Sheetal Binod Kumar Prasad<br>6. Dr. Mustafa Basthikodi<br>7. Dr. Lavkush Mishra<br>8. Parveen Kumar<br>9. Mrs Prakruti Kulkarni<br>10. Dr. Atul Kumar |
| TITLE OF INVENTION                | REAL-TIME INTELLIGENT SYSTEM FOR PERSONALISED HOSPITALITY SERVICE FOR HOTEL GUESTS USING MACHINE LEARNING                                                                                                                                   |
| FIELD OF INVENTION                | COMPUTER SCIENCE                                                                                                                                                                                                                            |
| E-MAIL (As Per Record)            | patentpublication@gmail.com                                                                                                                                                                                                                 |
| ADDITIONAL-E-MAIL (As Per Record) | patentpublication@gmail.com                                                                                                                                                                                                                 |
| E-MAIL (UPDATED Online)           |                                                                                                                                                                                                                                             |
| PRIORITY DATE                     |                                                                                                                                                                                                                                             |
| REQUEST FOR EXAMINATION DATE      | --                                                                                                                                                                                                                                          |
| PUBLICATION DATE (U/S 11A)        | 03/12/2021                                                                                                                                                                                                                                  |

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**OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE**

निर्गमन सं. 29/2021  
ISSUE NO. 29/2021

शुक्रवार  
FRIDAY

दिनांक: 16/07/2021  
DATE: 16/07/2021

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PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141031206 A

(19) INDIA

(22) Date of filing of Application :12/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : SYSTEM AND METHOD OF BIOGAS PRODUCTION- A HOUSEHOLD BIOGAS DIGESTERS

|                                               |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (51) International classification             | :C12M0001107000,<br>C12M0001000000,<br>C02F0003280000,<br>C12P0005020000,<br>C02F0011040000 | (71)Name of Applicant :<br>1)Dr.M.SARAVANAN<br>Address of Applicant :ASSOCIATE PROFESSOR,<br>DEPARTMENT OF MECHANICAL ENGINEERING<br>ANNAMALAI UNIVERSITY, ANNAMALAI NAGAR,<br>CHIDAMBARAM, TAMIL NADU 608002. Tamil Nadu India<br>2)Dr.R.SURESH<br>3)Mr. R. SENTHIL KUMAR<br>4)Dr. NAVNEET JOSHI<br>5)Dr. ISHAN Y. PANDYA<br>6)Mr. S. KRISHNARAJ<br>7)Mr. P. ANBARASU<br>8)Mr. S. SIVA CHANDRAN<br>9)Dr. CHIKKAPPA UDAGANI |
| (31) Priority Document No                     | :NA                                                                                         | (72)Name of Inventor :<br>1)Dr.M.SARAVANAN<br>2)Dr.R.SURESH<br>3)Mr. R. SENTHIL KUMAR<br>4)Dr. NAVNEET JOSHI<br>5)Dr. ISHAN Y. PANDYA<br>6)Mr. S. KRISHNARAJ<br>7)Mr. P. ANBARASU<br>8)Mr. S. SIVA CHANDRAN<br>9)Dr. CHIKKAPPA UDAGANI                                                                                                                                                                                      |
| (32) Priority Date                            | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (33) Name of priority country                 | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (86) International Application No             | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Filing Date                                   | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (87) International Publication No             | : NA                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (61) Patent of Addition to Application Number | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Filing Date                                   | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| (62) Divisional to Application Number         | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Filing Date                                   | :NA                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |

(57) Abstract :

ABSTRACT SYSTEM AND METHOD OF BIOGAS PRODUCTION- A HOUSEHOLD BIOGAS DIGESTERS This development is to evaluate the practicality of limited scope biogas creation utilizing natural waste, investigate choices for its application and propose a plan of action on how feedstock sourcing, office activity and finished result use could be acknowledged in the exploration region. Biogas creation has contributed incredibly as an elective wellspring of fuel power supply in agricultural country diminishing the fixation on oil based good. Each house is producing 2 to 5 kg of strong waste regular and they create sufficient methane ,which can secure the environmental change. Versatile biogas plant can be introduced in every one of the houses and they can drop the day by day producing food squander into the biogas digester . The digester is planned in a such a manner that biomethenization cycle will occur and food waste will be changed over to methane and fluid excrement. The creation and usage of biogas assumes a critical part in arranging and changing over civil and agrarian waste into fuel that can be use at home for cooking and lighting.

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

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## Receipt of Electronic Submission

The Receiving Office (RO/IB) acknowledges the receipt of a PCT International Application filed using ePCT-Filing. An Application Number and Date of Receipt have been automatically assigned ( Administrative Instructions, Part 7).

|                                |                                                                                    |         |
|--------------------------------|------------------------------------------------------------------------------------|---------|
| Submission Number:             | 055449                                                                             |         |
| Application Number:            | PCT/IB2020/055449                                                                  |         |
| Date of Receipt:               | 10 June 2020                                                                       |         |
| Receiving Office:              | International Bureau of the World Intellectual Property Organization               |         |
| Your Reference:                | DrRavikant1                                                                        |         |
| Applicant:                     | KANT, RAVI                                                                         |         |
| Number of Applicants:          | 2                                                                                  |         |
| Title:                         | METHOD OF SYNTHESIS AND BIOMEDICINAL APPLICATIONS OF NOVEL HETEROCYCLIC BISMUTHINE |         |
| Documents Submitted:           | DrRavikant1-appb-000001.pdf<br>(Description.pdf)                                   | 1067921 |
|                                | DrRavikant1-appb-000002.pdf<br>(CLAIMS.pdf)                                        | 438073  |
|                                | DrRavikant1-appb-000003.pdf<br>(abstract.pdf)                                      | 417314  |
|                                | DrRavikant1-appb-000004.pdf<br>(Drawings.pdf)                                      | 447441  |
|                                | DrRavikant1-appb.xml                                                               | 883     |
|                                | DrRavikant1-decl.xml                                                               | 4326    |
|                                | DrRavikant1-fees.xml                                                               | 2040    |
|                                | DrRavikant1-requ.xml                                                               | 8357    |
|                                | DrRavikant1-vlog.xml                                                               | 1029    |
|                                |                                                                                    |         |
| Submitted by:                  | Balram Singh YADAV (Customer ID: user_IN_YADAV_BALRAM-SINGH_6518)                  |         |
| Timestamp of Receipt:          | 10 June 2020 16:12 UTC+2 (CEST)                                                    |         |
| Official Digest of Submission: | 5B:34:6C:FD:6C:AF:48:C1:5F:C9:A0:0C:DF:08:F5:90:2B:A9:62:08                        |         |

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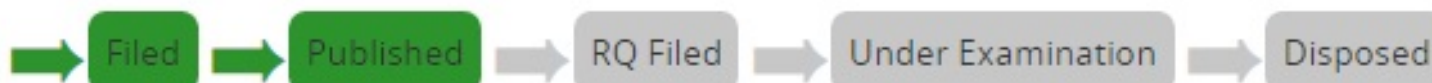


### Application Details

|                                  |                                                                                                                                                                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NUMBER               | 202111055748                                                                                                                                                                                                                                                         |
| APPLICATION TYPE                 | ORDINARY APPLICATION                                                                                                                                                                                                                                                 |
| DATE OF FILING                   | 01/12/2021                                                                                                                                                                                                                                                           |
| APPLICANT NAME                   | 1 . Mr. Amit Tiwari<br>2 . Dr. Atul Kumar<br>3 . Mr. Himanshu Vasnani<br>4 . Mr. Satyajit Anand<br>5 . Dr. Rajeev Pourush<br>6 . Prof.(Dr.) R.K. Bathla<br>7 . Mr. Sujeet Kumar<br>8 . Mrs .Nirmale Rekha Laxman<br>9 . Ms.Nigar Kadar Mujawar<br>10 . Mohammed Azam |
| TITLE OF INVENTION               | INTELLIGENT SYSTEM FOR THE PREVENTION OF SECURITY ATTACKS ON ARTIFICIAL PACEMAKER HEALTH DATA RECORDS BASED ON ARTIFICIAL INTELLIGENCE                                                                                                                               |
| FIELD OF INVENTION               | COMPUTER SCIENCE                                                                                                                                                                                                                                                     |
| E-MAIL (As Per Record)           | patentpublication@gmail.com                                                                                                                                                                                                                                          |
| ADDITIONAL-EMAIL (As Per Record) | patentpublication@gmail.com                                                                                                                                                                                                                                          |
| E-MAIL (UPDATED Online)          |                                                                                                                                                                                                                                                                      |
| PRIORITY DATE                    |                                                                                                                                                                                                                                                                      |
| REQUEST FOR EXAMINATION DATE     | --                                                                                                                                                                                                                                                                   |
| PUBLICATION DATE (U/S 11A)       | 10/12/2021                                                                                                                                                                                                                                                           |

### Application Status

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| APPLICATION STATUS | Awaiting Request for Examination |
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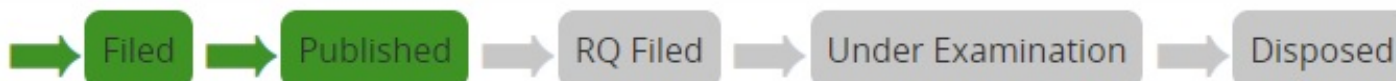


#### Application Details

|                                  |                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NUMBER               | 202111056270                                                                                                                                                       |
| APPLICATION TYPE                 | ORDINARY APPLICATION                                                                                                                                               |
| DATE OF FILING                   | 03/12/2021                                                                                                                                                         |
| APPLICANT NAME                   | 1 . Dr. Manmohan Sharma<br>2 . Dr. Jeetu Sharma<br>3 . Dr.Somil Jain<br>4 . Dr. Vikas Raina<br>5 . Dr. Sandeep Kumar<br>6 . Dr. Rajesh Yadav<br>7 . Dr. Ajay Kumar |
| TITLE OF INVENTION               | INTERNET OF THINGS AND BLOCK CHAIN ENABLED PORTABLE DEVICE FOR MONITORING LOCATION AND HEALTH ANIMALS                                                              |
| FIELD OF INVENTION               | ELECTRONICS                                                                                                                                                        |
| E-MAIL (As Per Record)           | soni.mukesh15@gmail.com                                                                                                                                            |
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| PRIORITY DATE                    |                                                                                                                                                                    |
| REQUEST FOR EXAMINATION DATE     | --                                                                                                                                                                 |
| PUBLICATION DATE (U/S 11A)       | 10/12/2021                                                                                                                                                         |

#### Application Status

|                    |                                  |
|--------------------|----------------------------------|
| APPLICATION STATUS | Awaiting Request for Examination |
|--------------------|----------------------------------|

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Government of India

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### Application Details

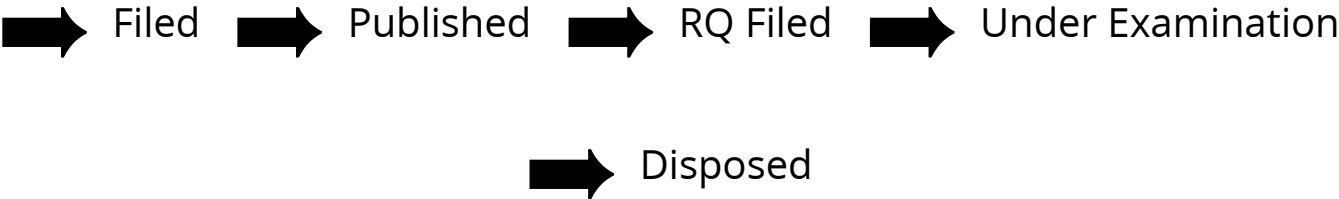
|                                  |                                                                                                                                                                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| APPLICATION NUMBER               | 202111056883                                                                                                                                                                                                                                             |
| APPLICATION TYPE                 | ORDINARY APPLICATION                                                                                                                                                                                                                                     |
| DATE OF FILING                   | 07/12/2021                                                                                                                                                                                                                                               |
| APPLICANT NAME                   | 1 . Prof.(Dr.) Randeep Singh<br>2 . Kumar Devadutta<br>3 . Dr. Ram Kinkar Pandey<br>4 . Dr. Atul Kumar<br>5 . Dr. Rajeev Pourush<br>6 . Mr. Amit Tiwari<br>7 . Dr Umesh Sehgal<br>8 . Dr. Kamlesh Kumari<br>9 . Mandeep Katre<br>10 . Dr. Surender Kumar |
| TITLE OF INVENTION               | SMOKE DETECTION AND MONITORING THROUGH ADVANCED SENSORS AND IOT IN CLOUD-BASED INTELLIGENT SYSTEM                                                                                                                                                        |
| FIELD OF INVENTION               | COMMUNICATION                                                                                                                                                                                                                                            |
| E-MAIL (As Per Record)           | patentpublication@gmail.com                                                                                                                                                                                                                              |
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| PRIORITY DATE                    |                                                                                                                                                                                                                                                          |
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| PUBLICATION DATE (U/S 11A)       | 17/12/2021                                                                                                                                                                                                                                               |

Application Status

APPLICATION STATUS

Awaiting Request for Examination

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### Application Details

|                                  |                                 |
|----------------------------------|---------------------------------|
| APPLICATION NUMBER               | 202121022929                    |
| APPLICATION TYPE                 | ORDINARY APPLICATION            |
| DATE OF FILING                   | 22/05/2021                      |
| APPLICANT NAME                   | <b>SAGE University</b>          |
| TITLE OF INVENTION               | A HERBAL ANTI-VIRAL COMPOSITION |
| FIELD OF INVENTION               | BIOTECHNOLOGY                   |
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| PRIORITY DATE                    |                                 |
| REQUEST FOR EXAMINATION DATE     | --                              |
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