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- **3.4.3** Number of Patents published/awarded during the last five years
- **3.4.3.1:** Total number of Patents published/awarded year wise during the last five years

Response: 10

### **Additional information**

1. e-Copies of the Patents published/awarded during the last five years

Bundesrepublik Deutschland

Urkunde

über die Eintragung des Gebrauchsmusters Nr. 20 2022 102 063

**Bezeichnung:** Kräuterformel zur Wundheilung bei Diabetiken

IPC:

A61K 36/185

Inhaber/Inhaberin:

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Die Präsidentin des Deutschen Patent- und Markenamts

Comelia R. dusty - Schaffer

Cornelia Rudloff-Schäffer



München, 27.04.2022

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Die Voraussetzungen der Schutzfähigkeit werden bei der Eintragung eines Gebrauchsmusters nicht geprüft. Den aktuellen Rechtsstand und Schutzumfang entnehmen Sie bitte dem DPMAregister unter www.dpma.de-

## (12) PATENT APPLICATION PUBLICATION

(21) Application No.202241007572 A

(19) INDIA

(22) Date of filing of Application :12/02/2022

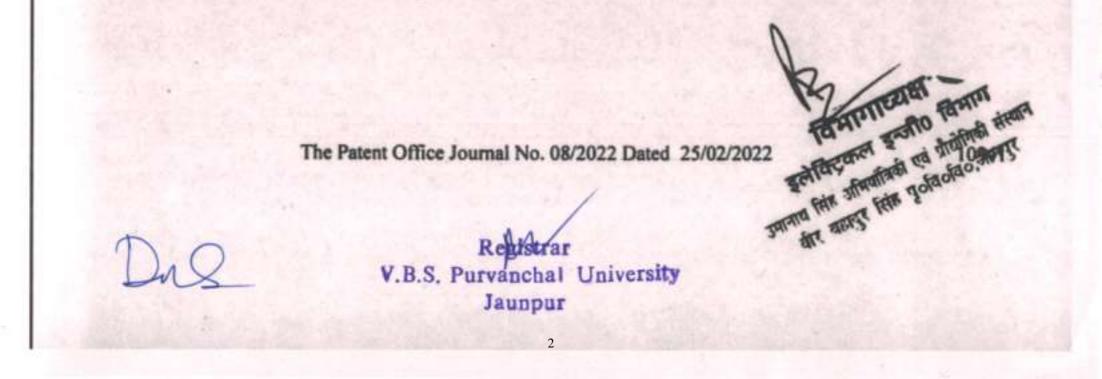
(43) Publication Date : 25/02/2022

## (54) Title of the invention : IoT, Artificial Intelligent and YOLOv3 based Infrared Anomaly Detection for Power Equipment

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(51) International classification	G06K009620000, G06K000900000, G01R0031080000,	3(Ms.Scillshuhmi V
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(87) International Publication No.	NA	-
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#### (57) Abstract

SoT, Artificial Intelligent and YOLO-3 based Inflated Anomaly Detection for Power Equipment Abstract. The power generation and transmission equipment is the most critical component of the power system. Due to its soliry, simplicity, and ease of use, infrared amornaly detection tocheology is an excellent tool for hocating issues with power distribution equipment. For this study, the YOLO-3 aerwork was trained using infrared imagin captured in the field. As a result, the Jataon Nano was able to detect power equipment and fash power in real time. YOLO-3 is put through its paces. 21 percent of people recall the model's mAP value, and 34.63 percent of the avoently in well as the points of servy and exit for power. Currently, menual impaction is used to detect infrared finite, but this method has a low detection rest. This article proposes a more accurate component method for duarmining the operational status of high-voltage lead connectors in substations. YOLO-3 is the name of this network. When proceeding have-resolution released images for the avoently of the avoently in exercise the output for induction rest. This article proposes a more accurate complexition. This enables the network we extract image features and gree inflated functions more efficiently, in well as the recorder to the other hand, datated convolution makes it easier for the network we extract image features and for the solution of the data. The new YOLO-3 network model is then exceede it to detection rest. The second term is address model is the new YOLO-3 network model has an accurate of \$4.25 percent of easier field convolution time of 0.308 seconds, which is prodecement. The majority of the time, the YOLO-3 network model is the an average detection time of 0.308 seconds, which is more field is then evaluated to detection in substances to easier field east. The new YOLO-3 network model has an accurate of \$4.26 percent of easier detections time of 0.308 seconds, which is efficient for real-of-second is the east-of-second is substances.





## **REPUBLIC OF SOUTH AFRICA**

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

# CERTIFICATE

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

MR. ZATIN GUPTA; DR. P.THARMARAJ; DR.J.SHAKINA; DR RAHUL DUBEY; DR. DURGACHARAN ARUN BHAGWAT; DR UMESH KUMAR PANDEY; DR SAURABH PAL; DR SHIKHA GUPTA

Has been granted a patent in respect of an invention described and claimed in complete

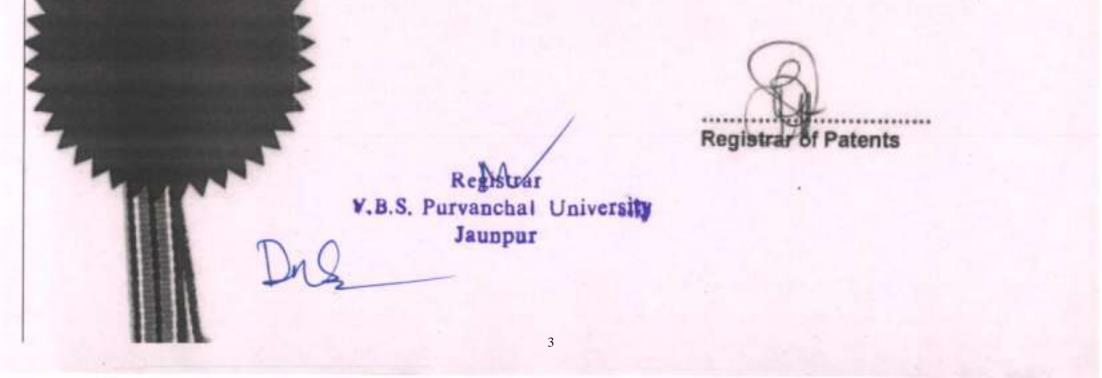
specification deposited at the Patent Office under the number

## 2022/02141

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect

from the 25th day of May 2022



(22) Date of filing of Application :12/02/2022

(21) Application No.202241007572 A

(43) Publication Date : 25/02/2022

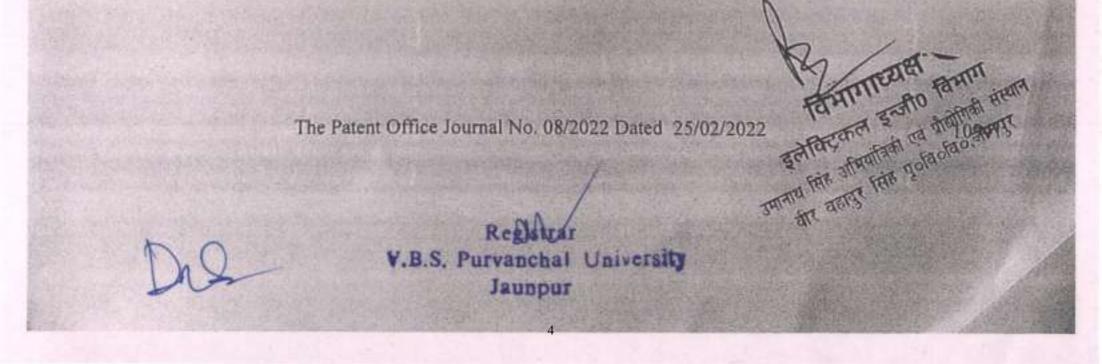
(54) Title of the invention : IoT, Artificial Intelligent and YOLOv3 based Infrared Anomaly Detection for Power Equipment

(11) International elasatification (16) International elasatification (16) International Application No Viling Date (17) International Publication No (11) Patent of Addition Its Application Number Filing Date (12) Diversition Number Filing Date (12) Diversition Number Filing Date (12) Diversition Number Filing Date (12) Diversition Number Filing Date	(11)Name of Applicant : 110v, Rohnan Kassuri Márces of Applicant : Associate Professor I B Institute of Engineering & Technology Pier 500075 Scient Technology I Inda 12)Nr.6 Uday Kiran 3)Nr.6 Uday Kiran 3)Nr.8 UBlaga Lazard 50R, Raan Mukherji 6(Nr. 8 at Prakadh 90Dr. Alay Nature Maurya 10)Nr. 8 at Manage Maurya 10)Nr. 9 at Manage Maurya 10)
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#### (57) Abstract

(57) Abstract list, Amfred Interligent and YOLOv3 based Inflated Associaty Detection for Power Equipment Abstract. The power generation and transmission equipment is the most critical component of the power system. Due to its anders, simplexity, and ease of use, inflated Associaty detection technology is an excellent tool for locianting issues with power distribution equipment. For this study, the YOLOv3 betwork was transed using inflated images captured in the field. As a result, the Jacon Nato was able to detect power suppreses and fault points in real time. YOLOv3 is put through its power. Currently, monal impector is used to detect inflated bigs, but this method has a low detection rate. This article proposes a more accurate method for determining the upcass of high voltage lead consectors in inflated images for the other hand, diated convolution makes it makes for the network to recognize large objects. Using multi-acate training, a fault detection model for the high voltage lead consector is used to the high-voltage lead consector is basis. The heat and are even to the high solitage lead converts on the high solitage lead converts. YOLOv3 is the name of the high voltage lead convectors in the state of the high voltage lead convectors is used to detect inflated training a mail traget. On the other hand, diated convolution makes it makes for the network to recognize large objects. Using multi-acate training, a fault detection model for the high voltage lead convector is a result of the high-voltage lead convector is basis. The new YOLOv3 network model is the network model in the resolution makes it makes for the high-voltage lead convector. The new network model is then evaluated in detection model for the bigh-voltage lead convector is basis, the bigh-entert and, diated convolution makes it makes for the high-voltage lead convector. The new network model is then evaluated in detection model for the high-voltage lead convector is basis. The heav and areas areas are low the high solitage lead convector. The

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(12) PATENT APPLICATION PUBLICATION (19) INDIA

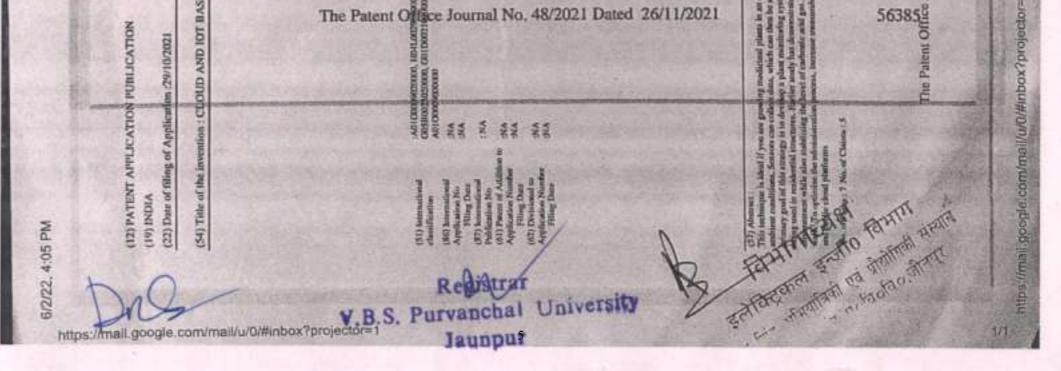
(22) Date of filing of Application :29/10/2021

(43) Publication Date : 26/11/2021

(21) Application No.202141049777 A

(54) Title of the invention : CLOUD AND IOT BASED INTELLIGENT PLANT WALL FOR GREEN INDOOR CLIMATE.

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(51) International       :A010009020000, H04L0029050000,         (avsification       G05B0023020000, G01D0021020000,         (86) International       :NA         Application No       :NA         Filing Date       :NA         (87) International       :NA         (87) International       :NA         (87) International       :NA         (87) International       :NA         (61) Patents of Addition to       :NA         Application No       :NA         (61) Patents of Addition to       :NA         Application Number       :NA         Filing Date       :NA         (62) Divisional to       :NA         Application Number       :NA         (62) Divisional to       :NA         Application Number       :NA	IJMr. Sæchin Sharma         Address of Applicant (Research Scholar Sangam University, Bhilwara 311001,         Rajasthan, India
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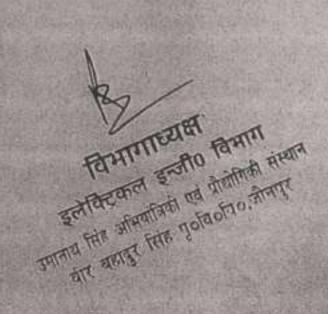
(19) INDIA	CATION PUBLICATION	(21) Application No.202141048338 A
(22) Date of filing of	Application :22/10/2021	(43) Publication Date : 05/11/2021
(54) Title of the inven	tion : IMPLEMENTATION OF HUMAN HEAL	TH MONITORING SYSTEM USING IOT.
<ul> <li>(41) International Articlation</li> <li>(85) International Application No Filing Date</li> <li>(87) International Publication No Filing Date</li> <li>(87) Policitation V Application Native</li> <li>(80) Distance of Addison V Application Native Status</li> <li>(80) Distance of Addison V Application Native Policy Date</li> <li>(8) Distance of Addison V Application Native Policy Date</li> </ul>	<text></text>	(11)Name of Apploant 1         (12)Name of Apploant 1.10 Match appent, www

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# V.B.S. Purvanchal University Jauppur

The Patent Office Journal No. 45/2021 Dated 05/11/2021



(22) Date of filing of Application :25/10/2021

(21) Application No.202141048693 A

(43) Publication Date : 05/11/2021

(54) Title of the invention : CLOUD AND IOT BASED SMART FOREST FIRE DETECTION AND WARNING SYSTEM.

(51) International classification (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	<text></text>	<ul> <li>(71)Name of Applicant :</li> <li>1)Aramagam Ranjith Address of Applicant :32 B Mazhuppan street</li></ul>
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### (57) Abstract

The development of modern industrial civilizations has caused in the establishment of manufacturing plants, office buildings, and housing blocks throughout urban parts. Because of the combustible substances contained in these facilities, there are gas and oil tanks all over these areas. Because of the densely packed buildings, extreme heat and smoke, and the possibility of explosives, putting out a fire in one of these places is nearly impossible. Currently, wildfires are extinguished using human-powered firefighting methods such as deluge cannons and chemical fire suppression equipment. Firefighting robots are a good fit for construction sites and industrial settings where humans are unable to perform their duties effectively. In recent years, researchers have made significant progress in fire-fighting robot research to deal with fire-related disasters in many countries. Forest fires are becoming more intense on a daily basis, and NodeMCU Internet of Things technology can detect and predict this Interfacing a temperature sensor with a DTH11 humidity sensor is required in this project to detect changes in temperature and humidity caused by the fire. The sensor's output can be stored indefinitely using Thingspeak. The data is stored in the cloud by Thingspeak. To identify a fire, temperature and humidity data are used to perform an analysis based on a threshold value. As soon as it is discovered, an email with sensor values and an estimated time of when the fire will

No. of Pages : 9 No. of Claims : 5

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(19) INDIA

(22) Date of filing of Application :06/10/2021

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(21) Application No.202141045557 A

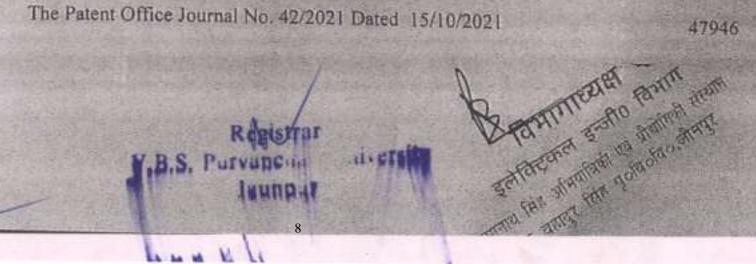
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(54) Title of the invention : An investigation into the factors that influence the IoT-based smart hospitals design.

(1) International classification       Model 2008         (3) International Application No       PCTV/         (3) International Publication No       PCTV/         (3) International Publication No       NA         (3) International Publication No       NA         (3) International Publication No       NA         (3) Divisional to Application Number       NA <td><ul> <li>(71)Name of Applicant :</li> <li>(71)Name of Applicant :32 B Mazhuppan street</li></ul></td>	<ul> <li>(71)Name of Applicant :</li> <li>(71)Name of Applicant :32 B Mazhuppan street</li></ul>

The current digital technological innovations, which are rapidly developing, have an impact on and change the integrated management procedures in all industries, including manufacturing. Health sector has been compelled to adopt a digital transformation strategy in order to maximize the effectiveness of the methodologies that are used to manage health sector management systems (HMS). The IoT is critical in this transformation because it allows multiple devices to connect and collaborate on projects. The Internet of Things relies on infrastructure such as various sensors, connection approaches, internet protocols, databanks, cloud computing technology, and analytics to allow systems to communicate with one another. As a result, the necessary technical infrastructure and an appropriate environment must be established in order to facilitate the development of smart hospitals. Incorporating Internet of Things technology into smart hospital environments introduces new optimization factors and challenges, as well as new technologies and opportunities. Every layer of technical infrastructure, including the constraints and methods that go with it, is divided into its own infrastructure. Smart hospitals will be equipped with real-time big data analytics capabilities, as well as smart computing and real-time data analysis systems. The research has revealed what flaws can exist in the smart hospital design model at each level, as well as what considerations must be made to avoid these flaws. The Smart Hospital System Design Guide will soon be available for supervisors, developers, and investigators who are concerned in improving the design of smart hospital system to use as a guide

No of Pages 12 No of Claims 5



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(21) Application No.202021056208 A

(22) Date of filing of Application :24/12/2020

(43) Publication Date : 22/01/2021

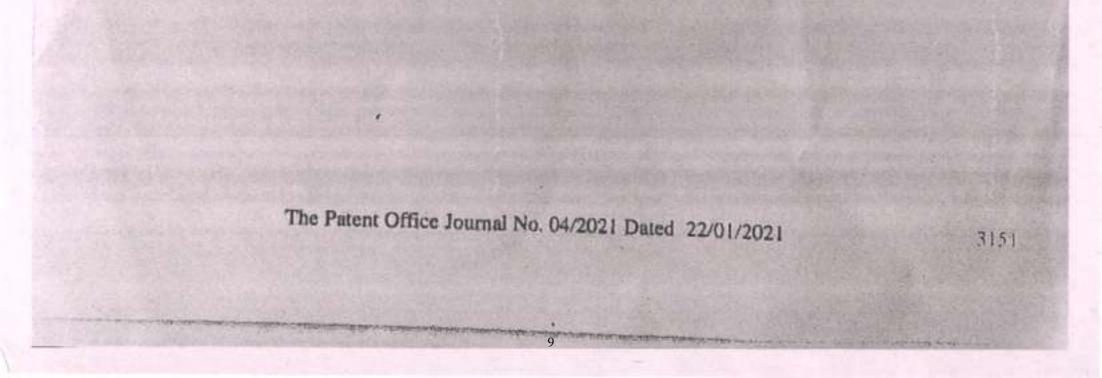
(54) Title of the invention : 3D PRINTING BASED DESIGN AND DEVELOPMENT OF TOUCHLESS SENSORENABLED HAND AND ROOM SANITIZER MACHINE

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(32) Priority Country</li> <li>(33) Name of Addition to Application Number Filing Date</li> <li>(34) Divisional to Application Number Filing Date</li> <li>(35) Divisional to Application Number</li> </ul>	(71)Name of Applicant : 1)DR. MOHIT GANGWAR Address of Applicant :(DEAN-ENGINEERING) FACULTY :H01L21/00 OF ENGINEERING, BHABHA UNIVERSITY, BHOPAL, :NA :NA 2)DR. SANJAY KUMAR :NA 3)DR. SAURABH PAL :NA 4)DR. VEER P. GANGWAR :NA 5)DR. SWATI JAIN : NA 6)DR. UMESH KUMAR :NA 3)DR. SAURABH PAL 4)DR. YEER P. GANGWAR :NA 3)DR. SANJAY KUMAR :NA 4)DR. MOHIT GANGWAR :NA 3)DR. SAURABH PAL 4)DR. YEER P. GANGWAR :NA 3)DR. SAURABH PAL 4)DR. SAURABH PAL
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By the name of Covid-19, which also hit India in February 2020, many people got infected. They died out of those mostly suffering from a disease that came in early 2020. WHO noticed that this disease is mostly transmitted by hand and mouth from one person to another person. They declared, with the aid of sanitizer and soap, to wear a mask and use sanitizer or wash hands frequently and properly. Many business organizations developed a Touchless Hand Sanitizer Dispenser that was expensive for individuals. When this disease infects our city and our neighborhood, our elders decided to purchase expensive machines for their use. The cost of those machines is Rs. 3000 to Rs. 6000 on the market. We are talking about why we cannot make this machine at a low and affordable price to hit every person according to their wallet. We went forward and manufactured this machine at a very low-cost price of Rs. 300. which is our product price. The unique and novel machine is to design and develop using 3D printing technology. The machine works on touchless sensor-based technology and very handy to move and operate. Its primary use to sanitize room and hand. The machine can also use to sanifize a 5x5 square feet area around a chair or sitting place.

## No. of Pages : 10 No. of Claims : 10

V.B.S. Purvanchal University Jaunpur



(21) Application No.201711044066 A

(22) Date of filing of Application :08/12/2017

(43) Publication Date : 25/05/2018

## (54) Title of the invention : PLANT EXTRACT FOR ANTIDIABETIC, HEPATOPROTECTIVE AND ANTIOXIDANT ACTIVITY

<ul> <li>(51) International classification</li> <li>(31) Priority Document No</li> <li>(32) Priority Date</li> <li>(33) Name of priority country</li> <li>(86) International Application No Filing Date</li> <li>(87) International Publication No</li> <li>(61) Patent of Addition to Application Number Filing Date</li> <li>(62) Divisional to Application Number Filing Date</li> </ul>	:A61K36/185 :NA :NA :NA :NA :NA :NA :NA :NA :NA :NA	<ul> <li>(71)Name of Applicant :</li> <li>1)DR. ALOK KUMAR DASH</li> <li>Address of Applicant :QR-101, TRANSIT HOUSE VBSP</li> <li>UNIVERSITY CAMPUS, JAUNPUR, UTTAR PRADESH-</li> <li>22003, INDIA Uttar Pradesh India</li> <li>2)DR. JHANSEE MISHRA</li> <li>(72)Name of Inventor :</li> <li>1)DR. ALOK KUMAR DASH</li> <li>2)DR. JHANSEE MISHRA</li> </ul>
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### (57) Abstract :

The present invention relates to novel use of the extracts of Ocimum canum plant species. The present invention particularly relates to novel use of the extracts of Ocuman canum leaves, which show antidiabetic, hepatoprotective and antioxidant activity. Hie present invention also relates to a process for the preparation of novel herbal extract of Ocimum canum species with antidiabetic, hepatoprotective and antioxidant activity and also to the use thereof for the treatment of diabetic, hepatoprotective and antioxidant activity and also to the use thereof for the treatment of diabetic, hepatoprotective and antioxidant activity and also to the use thereof for the treatment of diabetic, hepatoprotective and antioxidant activity.

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## The Patent Office Journal No. 21/2018 Dated 25/05/2018

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