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Patent Search

Publication Number45/2021Publication DateDivit/2021Application Type2014/043350Application Filling Date2014/043350Application Filling Date2019/201Priority Number2019/201Priority Number2019/201Priority Number2019/201Priority Number2019/201Priority Station Type2019/201Priority Station Type2019/201Priority Station Type2019/201Priority Date2019/201Priority Date2019/201Priority Date2019/201Priority Date2019/201Priority Station TypePriority Station TypePriority Date2019/201Priority Date2019/201Priority DatePriority Station TypePriority DateSaistant Professor, Faculty of Engineering and Technology, Vivekananda Global University, JajiourPriority DateSaistant Professor, Faculty of Engineering and Technology, Strukeanda Global University, JajiourPriority DateSaistant Professor, Faculty of Engineering and Technology, Strukeanda Global University, JajiourPriority DateSaistant Professor, Faculty of Engineering And Engineering And Engineering And Engineering And Engineering
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Field Of Invention       PHYSICS         Classification (IPC)       G01J000500000, E05F015730000, G08B0013190000, G01V0008100000, G06K0017000000         Inventor       Inventor         Name       Address       Country       Nationality         Dr.S.Balakrishnan, Sri Krishnan, Sri Krishnan, Sri Krishna College of Engineering       Professor, Department of Computer Science and Business System, Sri Krishna College of       India       India       India         Dr.S.Balakrishnan, Sri Krishnan, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008       India       India       India         Dr.M. Balasubramanian, Vivekananda Institute of       Yivekananda Institute of Professional studies, AU Block, Pitampura, Delhi-110034.       India       India         Mr. Onkar Bagaria, Vivekananda Global University, Jaipur.       Assistant Professor, Faculty of Engineering and Technology, Vivekananda Global University, Jaipur.       India       India         Dr. Chandra Prakash Lora, Vivekananda Global       Associate professor Pepartment of Information Technology, Institute of Aeronautical Engineering, Hyderabad       India       India         Dr. Ravi Kumar Poluru Institute of Aeronautical Hyderabad       Associate professor, Department of Computer Science and Engineering, Hindusthan Institute of Aeronautical Engineering, Hyderabad       India       India         Mr. M.Manicka Raja Hindustrue       Associate professor, Department of Computer Science and Engineering, Hindusthan
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Inventor         Address         Country         Nationality           Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.         Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008         India         India <td< td=""></td<>
NameAddressCountryNationalityDr.S. Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008IndiaIndiaDr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi.IndiaIndiaIndiaMr. Onkar Bagaria, Vivekananda Global University, Jaipur.Sistant Professor, Faculty of Engineering and Technology, Vivekananda Global University, Jaipur.IndiaIndiaDr. Chandra Prakash Lora, Vivekananda Global University, Jaipur.Assistant Professor, Faculty of Basic and & Applied Sciences, Vivekananda Global University, Jaipur.IndiaIndiaDr. Asavi Kumar Poltru Institute of Aeronautical Engineering, HyderabadAssociate professor, Department of Computer Science and Engineering, Hindusthan Institute of Technology, Coimbatore - 641 032IndiaIndiaMr. M.Nanicka Raja Hindusthan Institute of Technology, Coimbatore - 641 032IndiaIndiaIndiaMr. Anshul Saxena Christ University IndiaAssistant Professor, Institute of Management Studies Christ University IndiaIndiaIndia
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#### Abstract:

Automatic entrance/exit door control is widely used in public places such as grocery stores, businesses, transportation stations, airports, and wholesale department stores to eliminate the need of manually opening and closing actions in this pandemic outbreak. Contemporary sensor based automatic door control technologies include infrared, ultrasonic/radio, or other wireless sensing methods. In this work, we designed a smart device which helps to perform a contact less temperature sensing door opening system. This reduces the dependency of people on the guard and ensures the safety of the guards and also speeds up the process. And also this work will provide the detailed explanation of contact less door opening mechanism and the benefits of using the same. This system uses Thermal sensor, ultrasonic sensor, Temperature sensor, PIR sensor along with Arduino. The Temperature sensor uses IR energy to detect the temperature of an object and ultrasonic sensor which is used in this system to measure the distance. PIR sensor also detects any change in heat, and whenever it detects any change, its output PIN becomes HIGH. They are also referred to as Pyroelectric or IR motion sensors.

#### Claims:Claims:

We claim,

1. A device that provides temperature sensor is used which can sense the temperature and read the temperature and send it to the microcontroller.

2. Also system uses ultrasonic sensor which is used in this system to measure the distance

3. This system is useful to perform a contact less temperature sensing door opening system.

, Description: The main purpose of this work is to design the automatic door opening system by sensing the human body temperature. When any movement is detected near the door, then the door opens. A passive infrared sensor senses the movement and sends a sign to the microcontroller which opens the door for a specific amount of time based on the program. The microcontroller performs computations on the temperature estimated and it either allows the entryway access by conveying a fitting message to the entryway hardware, or denies the entrance by showing a message and ringing a caution.

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	Application Details				
APPLICATION NUMBER	202141043350				
APPLICATION TYPE	ORDINARY APPLICATION				
DATE OF FILING	24/09/2021				
APPLICANT NAME	<ol> <li>Dr.S.Balakrishnan, Sri Krishna College of Engineering and Teo</li> <li>Dr.M. Balasubramanian, Vivekananda Institute of Professiona</li> <li>Mr. Onkar Bagaria, Vivekananda Global University, Jaipur.</li> <li>Dr. Chandra Prakash Lora, Vivekananda Global University, Jaip</li> <li>Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, I</li> <li>Mr. M.Manicka Raja Hindusthan Institute of Technology, Coin</li> <li>Mr. Anshul Saxena Christ University India</li> </ol>	hnology, Coimbatore. al studies, Delhi. pur. Hyderabad hbatore			
TITLE OF INVENTION	Secured Automated Contactless Vehicle Door Access System bas Sensory Devices	sed on Thermal Mechanism of			
FIELD OF INVENTION	PHYSICS				
E-MAIL (As Per Record)	balkiparu@gmail.com				
ADDITIONAL-EMAIL (As Per Record)	balkiparu@gmail.com				
E-MAIL (UPDATED Online)					
PRIORITY DATE					
REQUEST FOR EXAMINATION DATE					
PUBLICATION DATE (U/S 11A)	05/11/2021				
Application Status					
APPLICATION STATUS	Awaiting Request for Examination				
		View Documents			
Filed Published RQ Filed How Under Examination Disposed					
In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in					

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

### (FOR OFFICE USE ONLY)

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

#### 1. APPLICANT(S):

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7	Mr. Anshul Saxena Christ University India	India	Assistant Professor Institute of Management Studies Christ University India	India	Karnataka

#### 2. INVENTOR(S):

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6	Mr. M.Manicka Raja Hindusthan Institute of Technology, Coimbatore	India	Assistant Professor, Department of Computer Science and Engineering, Hindusthan Institute	India	Tamil Nadu

			of Technology, Coimbatore – 641 032		
7	Mr. Anshul Saxena Christ University India	India	Assistant Professo Institute of Management Studies Christ University India	r India	Karnataka
3. TITLE OF THE INVENTION: Secured Automated Contactless Vehicle Door Access System based on Thermal Mechanism of Sensory Devices					
4. Al AUT	DDRESS FOR CORRES HORISED PATENT AC	PONDENCE O GENT IN INDIA	DF APPLICANT / Tel A: Fax	ephone No.: 7 No.:	550244766

and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008.

E-mail: balkiparu@gmail.com

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

Sr.No. Country Application Number Filing Date	Name of the Applicant	Tilte of the Invention
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#### 6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE **APPLICATION:**

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT// /	

#### 7. PARTICULARS FOR FILING DIVISIONAL APPLICATION

**Original (first) Application Number** Date of Filing of Original (first) Application

#### 8. PARTICULARS FOR FILING PATENT OF ADDITION:

**Date of Filing of Main Application** Main Application / Patent Number:

9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We, Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore., Dr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi., Mr. Onkar Bagaria, Vivekananda Global University, Jaipur., Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur., Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, Hyderabad, Mr. M.Manicka Raja Hindusthan Institute of Technology, Coimbatore, Mr. Anshul Saxena Christ University India, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: <u>24.09.2021</u>

(a) Date: -----(b) Signature(s) of the inventor(s): hy wash of the first part of the part

(c) Name(s): Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore., Dr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi., Mr. Onkar Bagaria, Vivekananda Global University, Jaipur., Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur., Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, Hyderabad, Mr. M.Manicka Raja Hindusthan Institute of Technology, Coimbatore, Mr. Anshul Saxena Christ University India

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

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

(a) Date: <u>24.</u>09.2021 (b) Signature(s): by west for Azt we Azt we Azt with the

(c) Name(s) of the singnatory: Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore., Dr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi., Mr. Onkar Bagaria, Vivekananda Global University, Jaipur., Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur., Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, Hyderabad, Mr. M. Manicka Raja Hindusthan Institute of Technology, Coimbatore, Mr. Anshul Saxena Christ University India,

(iii) Declaration by the applicant(s)

I am/We are, in the possession of the above mentioned invention. There is no lawful ground of objection to the grant of the Patent to me/us.

10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:

	,

Sr.	<b>Document Description</b>	FileName

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

Dated this(Final Payment Date): 24.09.2021

Signature: Mame: VIGNESH T

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