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Patent Search

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Field Of Invention	PHYSICS
Classification (IPC)	G01J0005000000, E05F0015730000, G08B0013190000, G01V0008100000, G06K0017000000

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Applicant

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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.

Complete Specification

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	1 . Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore. 2 . Dr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi. 3 . Mr. Onkar Bagaria, Vivekananda Global University, Jaipur. 4 . Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur. 5 . Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, Hyderabad 6 . Mr. M.Manicka Raja Hindusthan Institute of Technology, Coimbatore 7 . Mr. Anshul Saxena Christ University India
TITLE OF INVENTION	Secured Automated Contactless Vehicle Door Access System based on Thermal Mechanism of Sensory Devices
FIELD OF INVENTION	PHYSICS
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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
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➡ Filed ➡ Published ➡ RQ Filed ➡ 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):**

Sr.No.	Name	Nationality	Address	Country	State
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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):

Sr.No.	Name	Nationality	Address	Country	State
1	Dr.S.Balakrishnan, Sri Krishna College of Engineering and Technology, Coimbatore.	India	Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore. Tamilnadu, India. 641008	India	Tamil Nadu
2	Dr.M. Balasubramanian, Vivekananda Institute of Professional studies, Delhi.	India	Vivekananda Institute of Professional studies, AU Block, Pitampura, Delhi -110034.	India	Delhi
3	Mr. Onkar Bagaria, Vivekananda Global University, Jaipur.	India	Assistant Professor, Faculty of Engineering and Technology, Vivekananda Global University, Jaipur.	India	Rajasthan
4	Dr. Chandra Prakash Lora, Vivekananda Global University, Jaipur.	India	Assistant Professor, Faculty of Basic and & Applied Sciences, Vivekananda Global University, Jaipur.	India	Rajasthan
5	Dr. Ravi Kumar Poluru Institute of Aeronautical Engineering, Hyderabad	India	Associate professor Department of Information Technology, Institute of Aeronautical Engineering, Hyderabad	India	Telangana
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			of Technology, Coimbatore – 641 032		
7	Mr. Anshul Saxena Christ University India	India	Assistant Professor Institute of Management Studies Christ University India	India	Karnataka

3. TITLE OF THE INVENTION: Secured Automated Contactless Vehicle Door Access System based on Thermal Mechanism of Sensory Devices

**4. ADDRESS FOR CORRESPONDENCE OF APPLICANT /
AUTHORISED PATENT AGENT IN INDIA:**

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

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Title 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
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8. PARTICULARS FOR FILING PATENT OF ADDITION:

Main Application / Patent Number:	Date of Filing of Main Application
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9. DECLARATIONS:

(i) Declaration by the inventor(s)

I/We ,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: 24.09.2021

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

(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: 24.09.2021

(b) Signature(s) :

(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.	Document Description	FileName
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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: 

Name: VIGNESH T

To The Controller of Patents
The Patent office at CHENNAI

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