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Patent Search

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Invention Title	A Microcontroller-Based Internet of Things System for the Detection of Alive Humans in Disaster and War Areas
Publication Number	41/2022
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Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06F0011140000, H04L0067120000, H05B0047115000, A01K0063020000, H02H0003330000
Inventor	

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Abstract:

A Microcontroller-Based Internet of Things System for the Detection of Alive Humans in Disaster and War Areas ABSTRACT During a crucial operation, it may be impossible determine whether or not a soldier is still alive or has perished. It is crucial to adhere to the plan in the event of a natural disaster so that lives can be saved and people rethe necessary aid. When time is of the essence, the live human detection robot's ability to go where humans and heavy machines cannot and identify whether a person is alive is important.

Complete Specification

Description: DESCRIPTIONS

There are an excessive number of natural disasters, such as earthquakes, tsunamis, and building collapses, and man-made disasters, such as chemical spills, in the work today, and it can be difficult to prevent them. Because the disaster affected such a large area, it will be impossible for rescue workers to reach everyone who needs help. Large areas decrease the possibility that rescue workers can cover everything. We are constructing it using an Arduino Uno microcontroller and other sensors, including PIR sensor and an ultrasonic sensor. The PIR monitors the surrounding temperature and detects any changes. A robot vehicle equipped with ultrasonic sensors patrols t disaster zone to monitor the situation. We utilise GSM modules to communicate with this robot because they may be used over long and short distances. This robot was equipped with DTMF modules so that it could interact with rescue personnel. This robot is incredibly useful for locating and preserving human life. The primary objective of the project is to verify individuals' identities and establish whether or not they are authorised to enter a restricted area. It can also operate as a robot that responds to disasters. 1. The objective of this project is to establish a plausible plan for creating a simplified version of a robot capable of locating people in crisis zones. Consider instances in which technical obstacles prevented rescue personnel from locating survivors. 2. In a situation where individuals may be wounded, it is prudent to use high-tech equipment to do the task as quickly and effectively as possible. These devices would identify search for, and report illegal human movement inside predetermined boundaries. Additionally, by understanding the human dimension of things. The goal of this project is to construct a working prototype of a design that might be utilised boundaries. Additionally, by understanding the human dimension of things. The goal of this project is to construct a working prototype of a design that might be utilised be and in

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	Application Details
APPLICATION NUMBER	202241057921
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/10/2022
APPLICANT NAME	 K ASHOK KUMAR Mr. Umesh Kumar Satyanarayana.vannam Dr Priyank Singhal B Naresh Dr. RAJESH B. SURVASE Kale Navnath Dattatraya Dr.K.THIYAGARAJAN Mr. Aysola Saichander Mr.T R Arunkumar Dr. Harikumar Pallathadka
TITLE OF INVENTION	A Microcontroller-Based Internet of Things System for the Detection of Alive Humans in Disaster and War Areas
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	senanipindia@gmail.com
ADDITIONAL-EMAIL (As Per Record)	iprpatent2022@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (U/S 11A)	14/10/2022

Application Status Awaiting Request for Examination **APPLICATION STATUS View Documents** Filed Published RQ Filed Under Examination Disposed In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

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FORM 1					(FOR OFFICE USE ONLY)			
	THE PATENTS ACT 1970					Application No:		
		(39 of 197	70)	Filing	g Date:			
		&	0)		Amo	unt of Fee Paid:		
					CBR	No:		
		The Patents rul	les, 2003					
	APPLICA	TION FOR GR	ANT OF PAT	ENT	Signa	ature:		
	[See sec	tion 7, 54 & 135	Sand rule 20 (1)]				
1	. APPLICANT	'S REFERENCE	E / IDENTIFICA	ATION				
	NO. (AS ALI	LOTTED BY OF	FICE)					
	2. TYPE (OF APPLICATION	N [Please tick (√) at the ap	propria	ate category]		
	Ordinary $()$		Convention ()			PCT-NP()		
	Divisional ()	Patent of	Divisional ()	Patent of		Divisional ()	Patent of	
		Addition ()	()	Addition	()	,	Addition ()	
	3. (3A) A	PPLICANT P			· ·			
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	K ASHOK KUMAR		Indian	India	GU TE HY RA Pin TE	SISTANT PROP URUNANAK IN CHNICAL CAM 'DERABAD, NGA REDDY 1: 501506 LANGANA DIA	STITUTIONS	
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	Satyanarayan	a.vannam	Indian	India	Va Bo Wa Pin	sistant professor agdevi College o Ilikunta, arangal. a:506005 langana lia	f Engineering	,

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	Di Harmanar Fanadiaa	DI. Harikumar Fanathatika		India	District : In	nphal		
					Manipur India			
					ilidia			
	3B. CATEGORY OF	APPLIC	CANT [Plea	se tick $(\sqrt{\ })$	at the appropria	te category]		
	Natural Person ($\sqrt{\ }$)	Other	than Natura	l Person				
		Small	Entity()	Start up ()		Others ()		
	4. INVENTOR (S) [F	lease ticl	k () at the a	appropriate	category]			
	Are all the inventor(s) same	as Ye	s (√)		NO()			
	the applicant(s) named above	e?						
	If "No", furnish the details of	of the inv	entor(s)					
_								
	Name Na	ationality Country of Address				Address		
			Residen	ce				
	5. TITLE OF THE INVENTION							
A Microcontroller-Based Internet of Things System for the Detection of Alive						v e		
	Humans in Disaster and War Areas							
		Hum	ans in D	isaster a	na war Are	eas		
	6. AUTHORISED RE	GISTER	ED PATE	NT	IN/PA No.			
	AGENT(S)							
					Name			
					Mobile No.			
					Mobile No.			
	7. ADDRESS FOR S	ERVIC	E OF APP	PLICANT	Telephone	No. NA		
	IN INDIA	Mobile No. +91- 6369794362						
Alpha International Publication (AIP),			E-mail: ipr	patent2022@gmail.com				
Thiruvarur, Tamilnadu, India.			<u></u>					
	8. IN CASE OF APP	LICAT	ION CLA	IMING PI	RIORITY OI	F APPLICATION FILED I	N	
	CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION							

Country	Application Number	Filing date	Name of the applicant	Title of the invention	IPC (as classified in the convention country)
-NA-	-NA-	-NA-	-NA-	-NA-	-NA-

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)

International application number	International filing date
-NA-	-NA-

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION

Original (first) application No	Date of filing of original (first) application
-NA-	-NA-

11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT

Main application/patent No.	Date of filing of main application
-NA-	-NA-

12. DECLARATIONS:

(i) Declaration by inventor (s)

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

I/We, the above-named inventor(s) 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: 10/10/2022

(b) Signature:

(c) Name:

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66.7

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Gislang

Satyanarayana.vannam

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Dr. Rajesh B. Survase

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Mr. Aysola Saichander

Mr.T R Arunkumar Dr. Harikumar Pallathadka

(ii)Declaration by the applicant(s) in the convention country						
(In case the applicant in India is different than the applicant in the convention country: the						
applicant in the convention country may sign herein below or applicant in India may upload the						
assignment from the applicant in the convention country or enclose the said assignment with						
this application for patent or send the assignment by post/electronic transmission duly						
authenticated within the prescribed period)						
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						
(b) Signature(s)NA						
(c) Name(s) of the signatory						
(ii) Declaration by the applicant:						
I/We, the applicant hereby declares that:-						
☐ I am /we are in prosession of the above-mentioned invention						
☐ The provisional/complete specification relating to the invention is filed with this application.						
—The invention as disclosed in the specification uses the biological material from India and the						
necessary permission from the competent authority shall be submitted by me/us before the grant						
of patent to me/us.						
☐ There is no lawful ground of objection to the grant of the patent to me/us.						
☐ I am/we are the true & first inventor(s).						
\square I am/we are the assignee or legal representative of true & first inventor(s).						
☐—The application or each of the applications, particulars of which are given in Paragraph 8, was the						
first application in convention country/countries in respect of my/our invention(s).						
☐—I/We claim the priority from the above mentioned application(s) filed in convention						
country/countries and state that no application for protection in respect of the invention had been						
made in a convention country before that date by me/us or by any person from which I/We derive						
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☐—My/our application in India is based on international application under Patent Cooperation Treaty						
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☐—The application is divided out of my /our application particulars of which is given in Paragraph-10						
and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY under						
section 16 of the Act.						
The said invention is an improvement in or modification of the invention particulars of which are						
given in Paragraph 11.						

(d) Following are the attachments with the application:			
(a) Form 2			
Item	Detail	Fee	Remark
Complete	No. of pages: 10	1,600	
specification			
No. of Claim(s)	No. of claims: 08		
	No. of pages: 02		
Abstract	No. of pages: 01		
Drawings	No. of drawings: 0 No. of Pages: 0		
Duinuitu	No. of Priorities:		
Priority			
# In case of a complete specification, if the applicant desires to adopt the drawings filed with his			
provisional spe	ecification as the drawing	s or part of the dra	wings for the complete specification under
rule 13(4), the	number of such pages fil	ed with the provisi	onal specification are required to be
mentioned here.			
(a) Provisioanl specification (in conformation with the international application)/as amended			
before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).			
(b) Sequence listing in electronic form			
(c) Drawings (in conformation with the international application)/as amended before the			
International Preliminary Examination Authority (IPEA), as applicable (2 copies).			
(d) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital			
Access Service) if the applicant had already requested the office of first filing to make the priority			
document(s) available to DAS.			
(e) Translation of priority document/Specification/International Search Report/International			
Preliminary Report on Patentability.			
(f) Statement and Undertaking on Form 3			
(g) Declaration of Inventorship on Form 5			
Total fee Rs.	in Cash/ Banker's Chequ	e /Bank Draft bear	ing No
dateon Bank			
We hereby declare that to the best of my/our knowledge information and belief the fact and matters			

slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 10th day of October, 2022

Saurabh Kumar Jain (IN/PA-3637) Agent for Applicant

To,

The Controller of Patents

The Patent Office, At Delhi/Mumbai/Chennai/Kolkata, India.