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Filing Date :NA

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3)Dr.R.Cristin

(57) Abstract :

Internet of Things (IoT) has a large role to play in future of smart cities which in turn are supposed to be environment friendly. IoT can be used in practically all scenarios for public services by governments to make cities environment friendly. IOT Sensor-enabled devices can help monitor the environmental impact on cities, collect details about sewers, air quality, and garbage. Such devices can also help monitor woods, rivers, lakes, and oceans. Many environmental trends are so complex, that they are difficult to conceptualize. IoT is an eco-friendly technology which benefits not only the environment but mankind as whole. Deforestation is an issue that is impacting not only India but the global environment. In this work, we focused tree cutting detection, fire detection, human detection and contaminated water detection using vibration sensor (ADXL 335 Accelerometer), fire sensor (5-Channel Flame Sensor Module), Passive Infrared Sensor (PIR) and PH sensor respectively. Arduino Based Deforestation Alert System is used along with GSM to communicate to central server from remote place. The sensed data from sensors is collected and sent to the authorized person via GSM.

No. of Pages : 6 No. of Claims : 4



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 Ministry of Commerce & Industry,
 Government of India

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Application Details	
APPLICATION NUMBER	201941036274
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	10/09/2019
APPLICANT NAME	1 . Dr.S.Balakrishnan 2 . Dr.J.P.Ananth 3 . Dr.R.Cristin 4 . Dr.K.Suresh Kumar 5 . Dr.K.Karthick
TITLE OF INVENTION	A METHOD AND SYSTEM FOR CONTROLLING DEFORESTATION
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	balkiparu@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
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Application Status	
APPLICATION STATUS	Awaiting Request for Examination



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Document Name	Created Date/Uploaded Date
Abstract_As Filed_10-09-2019.pdf	10/09/2019
Claims_As Filed_10-09-2019.pdf	10/09/2019
Description Complete_As Filed_10-09-2019.pdf	10/09/2019
Drawing_As Filed_10-09-2019.pdf	10/09/2019
Form1_As Filed_10-09-2019.pdf	10/09/2019
Form2 Title Page_Complete_10-09-2019.pdf	10/09/2019
Form9_Earlier Publication_10-09-2019.pdf	10/09/2019

EP/R1 New application complete + F9)

D.NO: 75630

EP/R1
New Appl. (w/o)
F9 10/9/19



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"FORM 1 THE PATENTS ACT 1970 (39 of 1970) and THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 and 135 and sub-rule (1) of rule 20)		(FOR OFFICE USE ONLY)			
		Application No.	2019H1036274		
		Filing date:	10:09:2019		
		Amount of Fee paid:	17501-		
		CBR No:	29222		
		Signature:	x 8 10/9/19		
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (v) at the appropriate category]					
Ordinary (<input checked="" type="checkbox"/>)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
Name in Full	Nationality	Country of Residence	Address of the Applicant		
Dr.S.Balakrishnan	Indian	India	Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Kuniamuthur, Coimbatore. Tamilnadu, India. 641008. balkiparu@gmail.com . 7550244766		
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Dr.R.Cristin	Indian	India	Department of Computer Science and Engineering, GMR Institute of Technology, Rajam , Andhra Pradesh – 532127. Email: cristin.r@gmrit.edu.in , 9095051375		

10-Sep-2019/75630/201941036274/Form 1

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Dr.K.Suresh Kumar	Indian	India	Department of Information Technology, Saveetha Engineering College, Thandalam, Chennai-602103 ksureshmtech@gmail.com, 9994216334		
Dr.K.Karthick	Indian	India	Department of Electrical and Electronics Engineering, GMR Institute of Technology, Rajam, Andhra Pradesh – 532127. Email: kkarthiks@gmail.com. 9894821761		
3B. CATEGORY OF APPLICANT [Please tick (v) at the appropriate category]					
Natural Person (v)		Other than Natural Person			
		Small Entity ()	Startup ()	Others ()	
4. INVENTOR(S) [Please tick (v) at the appropriate category]					
Are all the inventor(s) same as the applicant(s) named above?		Yes (v)		No ()	
If "No", furnish the details of the inventor(s)					
Name in Full		Nationality	Country of Residence	Address of the Applicant	
5. TITLE OF THE INVENTION					
A Method And System For Controlling Deforestation					
6. AUTHORISED REGISTERED PATENT AGENT(S)			IN/PA No.		
			Name		
			Mobile No.		
7. ADDRESS FOR SERVICE OF APPLICANT IN INDIA			Dr.S.Balakrishnan Department of Computer Science and Business Systems, Sri Krishna College of Engineering and Technology, Kuniyamuthur, Coimbatore. Tamilnadu, India. 641008. balkiparu@gmail.com. 7550244766.		
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN 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)

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

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10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF MAIN APPLICATION OR PATENT

Original (first) application No.	Date of filing of original (first) application
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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
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12. DECLARATIONS

(i) Declaration by the 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: 10-09-2019

(b) Signature(s):

(c) Name(s)



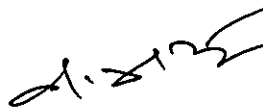
Dr.S.Balakrishnan



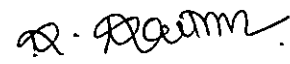
Dr.J.P.Ananth



Dr.R.Cristin



Dr.K.Suresh Kumar



Dr.K.Karthick

(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)

(c) Name(s) of the signatory

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

- I am/ We are in possession 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(s) to the grant of the Patent to me/us. I am/we are the true & first inventor(s).
- 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 the title.
- My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- 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 _____ 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.

13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete specification)#	06		
No. of Claim(s)	04 and 02		
Abstract	02		
No. of Drawing(s)	01 & 06		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here

- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) 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.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) Declaration of Inventorship on Form 5
- (i) Power of Authority
- (j).....

Total fee in Cash/ Banker's Cheque /Bank Draft bearing No.....
 Date.....on Bank

I/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 10 day of Sep 2019

Signature: [Signature]

Name: (Dr. S. BALAKRISHNAN)

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To,
The Controller of Patents
The Patent Office, at.....

Note: -

- * Repeat boxes in case of more than one entry.
- * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.
- * Tick ()/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.
- * Name of the inventor and applicant should be given in full, family name in the beginning.
- * Strike out the portion which is/are not applicable.
- * For fee: See First Schedule";