



## Gokaraju Rangaraju Institute of Engineering and Technology

### Department of Computer Science and Engineering

#### PATENTS

S.No.	Title of the Patent	File Number	Date	Names of the Patenter	Status
<b>2020-21</b>					
1	DIP-Intelligent Neural Networks:Digital Image Processing Using Intelligent Neural Networks System	2021101072	14/04/2021	Dr. K. Anuradha Dr. G. Karuna	2021 Granted
2	Cloud Data Performance Measurement Using Sensor based Machine Learning Techniques	202041056738	15/01/2021	Dr.PadmalayaNayak	2021 Published
3	An Effective Mechanism using smart Belt to prevent school Children Abduction	202041055573	25/12/2020	Dr.A.Sai Hanuman	2020 Published
4	A Generic Framework for Multi Model Document Image Analysis	202041044919	30/10/2020	Dr.A.Sai Hanuman	2020 Published
5	ICDN- Object Detection System: Intelligent Object Detection System With Image Classification And Deep Neural Networks	202041047669	13/11/2020	Dr.G.Karuna	2020 Published
6	Identification of missing person/criminal/if any based-on internet of things (iot) and deep learning techniques	202041042967	09/10/2020	Dr.G.Karuna	2020 Published
7	IoT-Based Micropayment Protocol for Wearable Devices with Unique Verification	2020101863	09/09/2020	K.SudheerBabu	2020 Granted
8	NIBT-Fire Detection: Fire detection and notification using IOT based technology	2020102097	23/09/2020	Dr.PadmalayaNayak Dr.Surbhi Gupta	2020 Granted

9	Twitter Sentiment Analysis using Machine Learning on Angular 8 Programming	202041033432 A	04/09/2020	Dr.K.Kavitha	2020 Published
10	Intelligent room disinfecting (covid19) room air using machine learning system	202041026126 A	24/07/2020	S.BhargaviLatha	2020 Published
11	tion for database trators (SONIDBA)	202041026317 A	03/07/2020	Dr.G.Ramesh	2020 Published



# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021101072

The Commissioner of Patents has granted the above patent on 14 April 2021, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

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Pari Nidhi Singh of Vill- Jamuai, Post- Jamuhar, Chunar Mirzapur UP 231304 India

B. K. Sarkar of (International Patent Motivational Speaker), GEH Research, G-12, Lavelle Road Bengaluru Karnataka 560001 India

**Title of invention:**

DIP-Intelligent Neural Networks: Digital Image Processing Using Intelligent Neural Networks System

**Name of inventor(s):**

Pandya, Ishan Y.; Sowjanya, Kotte; Anuradha, K.; Karuna, G.; Chordiya, S. B.; Pawar, Vrushsen Purushottam; Raj, Beg; Singh, Pawan Kumar; Singh, Pari Nidhi and Sarkar, B. K.

**Term of Patent:**

Eight years from 27 February 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Dated this 14<sup>th</sup> day of April 2021

Commissioner of Patents



**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



## Extracts from the Patents Act, 1990

### Sect 120(1A)

Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

### Sec 128

#### **Application for relief from unjustified threats**

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
- (a) a declaration that the threats are unjustifiable; and
  - (b) an injunction against the continuance of the threats; and
  - (c) the recovery of any damages sustained by the applicant as a result of the threats.
- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

### Sec 129A

#### **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

*Certain threats of infringement proceedings are always unjustifiable.*

- (1) If:
- (a) a person:
    - (i) has applied for an innovation patent, but the application has not been determined; or
    - (ii) has an innovation patent that has not been certified; and
  - (b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be; then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

*Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent*

- (2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

*Courts power to grant relief in respect of threats made by the patentee of certified innovation patent*

- (3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

### Schedule 1

#### **Dictionary**

**certified**, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent





GOVERNMENT OF INDIA

Controller General of Patents, Designs and Trademarks  
Department of Industrial Policy and Promotion  
Ministry of Commerce and Industry

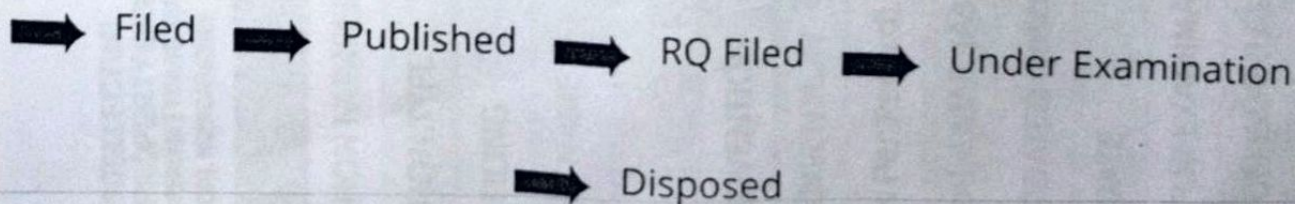
## Application Details

APPLICATION NUMBER	202041056738
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/12/2020
APPLICANT NAME	1 . Dr. Padmalaya Nayak (Professor) 2 . Dr. K. Ramesh Babu (Professor)
TITLE OF INVENTION	Cloud Data Performance Measurement Using Sensor based Machine Learning Techniques.
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	dr.bksarkar2003@yahoo.in
ADDITIONAL-EMAIL (As Per Record)	dr.bksarkar2003@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	15/01/2021

## Application Status

APPLICATION STATUS

Awaiting Request for Examination

[View Documents](#)



**Application Details**

APPLICATION NUMBER	202041055573
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	21/12/2020
APPLICANT NAME	1 . Dr AKUNDI SAI HANUMAN 2 . KANEGONDA RAVI CHYTHANYA 3 . Dr T.VENUGOPAL
TITLE OF INVENTION	AN EFFECTIVE MECHANISM USING SMART BELT TO PREVENT SCHOOL CHILDREN ABDUCTION
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	patentagent@prometheusip.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	21/12/2020
PUBLICATION DATE (U/S 11A)	25/12/2020

**Application Details**

APPLICATION NUMBER	202041044919
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/10/2020
APPLICANT NAME	1 . Dr. KATHULA KRANTHI KUMAR 2 . Dr. T. VENU GOPAL 3 . Dr. AKUNDI SAI HANUMAN 4 . Dr. RAVINDER .M 5 . Dr. D.KIRAN 6 . KANEGONDA RAVI CHYTHANYA
TITLE OF INVENTION	A GENERIC FRAMEWORK FOR MULTI MODEL DOCUMENT IMAGE ANALYSIS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentagent@prometheusip.com
ADDITIONAL-EMAIL (As Per Record)	mail2psr@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	15/10/2020
PUBLICATION DATE (U/S 11A)	30/10/2020



## Application Details

APPLICATION NUMBER	202041047669
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	02/11/2020
APPLICANT NAME	1 . Dr. G. VENKATA RAMI REDDY (PROFESSOR) 2 . Dr. G. KARUNA (PROFESSOR) 3 . Mr. ABBOJU NIRANJAN (PH.D. SCHOLAR) 4 . Dr A.V. KRISHNA PRASAD (ASSOCIATE PROFESSOR) 5 . Mr. K VENKATA RAMANA (ASSISTANT PROFESSOR)
TITLE OF INVENTION	ICDN- OBJECT DETECTION SYSTEM: INTELLIGENT OBJECT DETECTION SYSTEM WITH IMAGE CLASSIFICATION AND DEEP NEURAL NETWORKS.
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	gvr_reddi@jntuh.ac.in
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	13/11/2020

## Application Status

APPLICATION STATUS

Awaiting Request for Examination

View Documents



### Application Details

APPLICATION NUMBER	202041042967
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	03/10/2020
APPLICANT NAME	1 . Dr. G. Karuna 2 . Dr. G. Venkatarami Reddy 3 . Mr. Gorantla Hemanth Kumar 4 . Dr. K. Sathish 5 . Mr. Vikram Neerugatti 6 . Dr. Kamalapuram Khaja Baseer
TITLE OF INVENTION	IDENTIFICATION OF MISSING PERSON/CRIMINAL/IF ANY BASED-ON INTERNET OF THINGS (IOT) AND DEEP LEARNING TECHNIQUES
FIELD OF INVENTION	COMMUNICATION
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ADDITIONAL-EMAIL (As Per Record)	drkkbaseer@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	03/10/2020
PUBLICATION DATE (U/S 11A)	09/10/2020

### Application Status

[View Documents](#)



# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020101863

The Commissioner of Patents has granted the above patent on 9 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

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Hyderabad Telangana - 502329 India

Ponnuru Sowjanya of Department of Computer Science & Engg., GITAM (Deemed to be University) Hyderabad  
Telangana - 502329 India

**Title of invention:**

IoT-Based Micropayment Protocol for Wearable Devices with Unique Verification

**Name of inventor(s):**

(Professor), Dr. B. Madhuravani; Divanu, Mrs. Sameera; Trupthi, Mrs. M.; Yaganti, Mrs. Gnyanadeepa; Swathi,  
Mrs. K.; Bushetty, Mrs. Sneha; Babu, Kuntimalla Sudheer; Garapati, Dr. Yugandhar; Gudipati, Sri Sowmya and  
Sowjanya, Ponnuru

**Term of Patent:**

Eight years from 17 August 2020

Dated this 9<sup>th</sup> day of September 2020

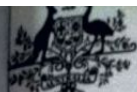
Commissioner of Patents



**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.





alian Government  
IP Australia

# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020101863

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 9<sup>th</sup> day of September 2020

Commissioner of Patents

## PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



## Extracts from the Patents Act, 1990

### Sect 120(1A)

Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

### Sec 128

#### **Application for relief from unjustified threats**

- (1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:
- (a) a declaration that the threats are unjustifiable; and
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- (2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

### Sec 129A

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*Courts power to grant relief in respect of threats made by the patentee of certified innovation patent*

- (3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

### Schedule 1

#### **Dictionary**

**certified**, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent



# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020102097

The Commissioner of Patents has granted the above patent on 23 September 2020, and certifies that the below particulars have been registered in the Register of Patents.

**Name and address of patentee(s):**

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Dr. Surbhi Gupta (Associate Professor) of Gokaraju Rangaraju Institute of Engg., and Technology Bachupally  
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Dr. Neeraj Mohan (Assistant Professor) of IKG Punjab Technical University, Mohali Campus-I Industrial Area  
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Dr. Priyanka Kaushal (Associate Professor) of Chandigarh Engineering College Landran, Mohali, Punjab India  
Dr. Padmavathi Kora (Professor) of Gokaraju Rangaraju Institute, of Engineering and Technology Bachupally  
Kukatpally, Hyderabad-500 090, Telangana India

**Title of invention:**

NIBT- Fire Detection : FIRE DETECTION AND NOTIFICATION USING IOT BASED TECHNOLOGY

**Name of inventor(s):**

Nayak, Padmalaya; Babu, K. Ramesh; Gupta, Surbhi; Mohan, Neeraj; Kaushal, Priyanka and Kora, Padmavathi

**Term of Patent:**

Eight years from 2 September 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 23<sup>rd</sup> day of September 2020

Commissioner of Patents

**PATENTS ACT 1990**

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.



## Extracts from the Patents Act, 1990

### Sect 120(1A)

Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

### Sec 128

(1)

#### **Application for relief from unjustified threats**

Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

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- (b) an injunction against the continuance of the threats; and
- (c) the recovery of any damages sustained by the applicant as a result of the threats.

(2)

Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

### Sec 129A

#### **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

*Certain threats of infringement proceedings are always unjustifiable.*

(1)

If:

(a) a person:

(i) has applied for an innovation patent, but the application has not been determined; or

(ii) has an innovation patent that has not been certified; and

(b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;  
then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

*Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent*

(2)

If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

*Courts power to grant relief in respect of threats made by the patentee of certified innovation patent*

(3)

If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

### Schedule 1

#### **Dictionary**

**certified**, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent



(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application : 05/08/2020

(21) Application No. 202041033432 A

(43) Publication Date : 04/09/2020

(54) Title of the invention : TWITTER SENTIMENT ANALYSIS: TWITTER SENTIMENT ANALYSIS USING MACHINE LEARNING ON ANGULAR 8 PROGRAMMING.

(71) Name of Applicant :  
1) NEELAMPALLI JAYANTHI (ASSISTANT PROFESSOR)  
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Mo no: 9030277619 Telangana India

(51) International classification : G06Q30/0203  
(31) Priority Document No : NA  
(32) Priority Date : NA  
(33) Name of priority country : NA  
(86) International Application No : NA  
Filing Date : NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number : NA  
Filing Date : NA  
(62) Divisional to Application Number : NA  
Filing Date : NA

(72) Name of Inventor :  
1) NEELAMPALLI JAYANTHI (ASSISTANT PROFESSOR)  
2) Dr. KAYIRAM KAVITHA (ASSOCIATE PROFESSOR)  
3) GEETHA G (ASSISTANT PROFESSOR)  
4) UMA SHANKARI E (ASSISTANT PROFESSOR)  
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6) DEEPIKA N M (ASSISTANT PROFESSOR)  
7) GANNAMANENI NISHWITHA (ASSISTANT PROFESSOR)  
8) BONTHALA SWATHI (ASSISTANT PROFESSOR)

(57) Abstract :

ABSTRACT My Invention Twitter Sentiment Analysis • is a twitter data is received from multiple data sources and at least one of the data sources is an active audio, audio or audio video communication. In any source received data is analyzed by extracting instances of a more than one keyword from the received data and analyzing contextual data near the keyword and Sentiment about the extracted keyword is gauged based on the contextual data and also all information provided a computer-implemented method of performing sentiment analysis and further exemplary method through machine learning on angular-8 programming and comprises performing a first sentiment analysis on microblogging data based on a method using an opinion lexicon. The method also includes training a classifier using training data from the first sentiment analysis and also Additionally, the method includes identifying a new opinion term in the microblogging data by performing a statistical test. The method includes performing a second sentiment analysis on the new microblogging data using the classifier.

No. of Pages : 30 No. of Claims : 10

37031

The Patent Office Journal No. 36/2020 Dated 04/09/2020



(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/06/2020

(21) Application No.202041026126 A

(43) Publication Date : 24/07/2020

(54) Title of the invention : INTELLIGENT ROOM: DISINFECTING (COVID19) ROOM AIR USING MACHINE LEARNING SYSTEM.

(51) International classification

:G06N  
20/00

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

1)Dr. T. V. V. SATYANARAYANA

Address of Applicant :ELECTRONICS AND  
COMMUNICATION ENGINEERING, SREE  
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satya.tvv@gmail.com Andhra Pradesh India

2)Dr. D. VENKAT REDDY

3)Dr. N. ALIVELU MANGA

4)MR. M. VENKATANARESH

5)Mr. G. V. PRADEEP KUMAR

6)Mrs S. BHARGAVI LATHA

(72)Name of Inventor :

1)Dr. T. V. V. SATYANARAYANA

2)Dr. D. VENKAT REDDY

3)Dr. N. ALIVELU MANGA

4)MR. M. VENKATANARESH

5)Mr. G. V. PRADEEP KUMAR

6)Mrs S. BHARGAVI LATHA

(57) Abstract :

Patent Title: Intelligent Room: DISINFECTING (Covid19) ROOM AIR USING MACHINE LEARNING SYSTEM. ABSTRACT  
My Invention Intelligent Room is an air cleaner, in which an air inlet, an intelligent mechanical prefilter, a chemical filter and an air outlet are arranged in the order in a casing of insulating high quality material. To maintain the thin-wire electrodes are less than 42 microns in diameter and arranged in appropriate intervals at substantial rectangles with an air path from the air inlet to the air outlet. The grounded conductive plates have one end attached to the protection net and backwardly extending between adjacent two of the thin-wire electrodes along the air path. A direct current voltage less than 3.9 to 4.5 kilo-volts is applied to the negative high voltage conductive plates. An electric fan causes a flow of air from the inlet to the outlet to perform highly effective air cleaning under preventing the defined ozone development. The disinfecting a room having first, second air inlets and an air intake control using machine learning assembly to prefer control air flow. The Air flows between the exterior and interior of the enclosure through the second air inlet passes through a Covid19 killer filter assembly. The chemical dispersion assembly generates a disinfecting clean fog relative to the fan. The controller system (Machine learning Programming) controls the air intake control assembly to disperse the disinfecting clean fog into the room.

No. of Pages : 24 No. of Claims : 9



(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/06/2020

(21) Application No.202041026317 A

(43) Publication Date : 03/07/2020

(54) Title of the invention : SONIFICATION FOR DATABASE ADMINISTRATORS (SONIDBA)

(51) International classification

:G10H

(31) Priority Document No

1/00

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

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2)Dr.G. RAMESH

3)B. MUNI LAVANYA

4)Dr. P. PAVAN KUMAR

5)Dr. P. DHANALAKSHMI

6)P. GOPALA KRISHNA

7)Dr. P. DILEEP KUMAR REDDY

(72)Name of Inventor :

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2)Dr.G. RAMESH

3)B. MUNI LAVANYA

4)Dr. P. PAVAN KUMAR

5)Dr. P. DHANALAKSHMI

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(57) Abstract :

The present invention named SoniDBA• is the software product that renders sonification service to DBA. In other words, SoniDBA converts most recent database alerts into non-verbal sounds that are DBA-understandable. Thus SoniDBA helps database administrators to have real time monitoring of availability and performance of databases. The invention is cloud based which reaps benefits of cloud such as scalability, availability, fault tolerance, elasticity and eliminates time and geographical restrictions. The invention specifically targets DBAs with its sonification service that saves time and effort of DBAs. Traditional database alert messages take more time to comprehend than non-verbal sounds produced by SoniDBA. Thus it renders invaluable service to DBAs. Moreover, it can also help DBAs who are visually impaired.

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