INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते

क्रमांक : 044137646
SL No :

भारत सरकार
GOVERNMENT OF INDIA
पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE

(Rule 74 Of The Patents Rules)

पेटेंट सं. / Patent No.	:	387074
आवेदन सं. / Application No.	:	202041020407
फाइल करने की तारीख / Date of Filing	:	14/05/2020
पेटेंटी / Patentee	:	1.VANGIPURAM RADHAKRISHNA 2.ARAVIND CHERUVU 3.GUNUPUDI RAJESH KUMAR 4.GALI SURESH REDDY et al. et al. et al.

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित SYSTEM AND METHOD FOR DIAGNOSIS OF DISEASES FROM MEDICAL IMAGES नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 14th day of May 2020 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled SYSTEM AND METHOD FOR DIAGNOSIS OF DISEASES FROM MEDICAL IMAGES as disclosed in the above mentioned application for the term of 20 years from the 14th day of May 2020 in accordance with the provisions of the Patents Act,1970.

एकस्य कार्यालय THE PATENT OFFICE GOVT.OF INDIA भारत सरकार

अनुदान की तारीख :
Date of Grant : 21/01/2022

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, **14th day of May 2022** को और उसके पश्चात प्रत्येक वर्ष मे उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 14th day of May 2022 and on the same day in every year thereafter.

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

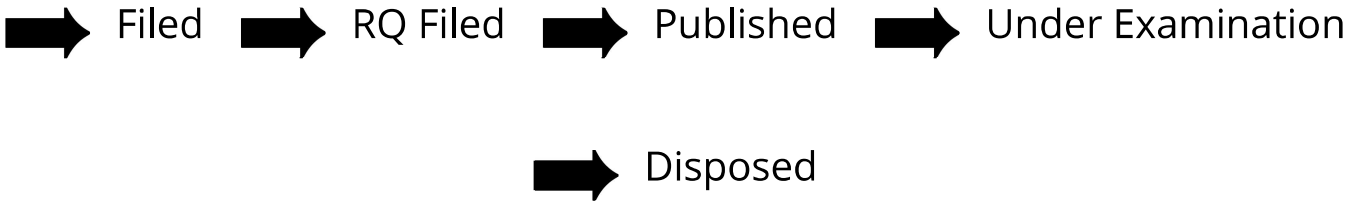
INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details	
APPLICATION NUMBER	202041020407
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/05/2020
APPLICANT NAME	1 . VANGIPURAM RADHAKRISHNA 2 . ARAVIND CHERUVU 3 . GUNUPUDI RAJESH KUMAR 4 . GALI SURESH REDDY 5 . NIMMALA MANGATHAYARU 6 . V. JANAKI 7 . V. SRAVAN KIRAN
TITLE OF INVENTION	SYSTEM AND METHOD FOR DIAGNOSIS OF DISEASES FROM MEDICAL IMAGES
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	filings@ipexcel.com
ADDITIONAL-EMAIL (As Per Record)	filings@ipexcel.com
E-MAIL (UPDATED Online)	filings@ipflair.com
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	26/11/2020
PUBLICATION DATE (U/S 11A)	27/11/2020
FIRST EXAMINATION REPORT DATE	28/12/2020
Date Of Certificate Issue	21/01/2022
POST GRANT JOURNAL DATE	28/01/2022
REPLY TO FER DATE	10/02/2021

Application Status	
APPLICATION STATUS	**Granted Application, Patent Number :387074**

E-Register		Order(s)/Decision(s)	View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/05/2020

(21) Application No.202041020407 A
(43) Publication Date : 27/11/2020

(54) Title of the invention : SYSTEM AND METHOD FOR DIAGNOSIS OF DISEASES FROM MEDICAL IMAGES

(51) International classification	:G06K0009620000, G06K0009000000, G06F0016280000, G06T0007110000, G06F0016583000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)VANGIPURAM RADHAKRISHNA
Address of Applicant :DEPARTMENT OF INFORMATION TECHNOLOGY, VNR VJIET, VIGNANA JYOTHI NAGAR, NIZAMPET RD, PRAGATHI NAGAR, HYDERABAD TELANGANA 500090, INDIA Telangana India
2)ARAVIND CHERUVU
3)GUNUPUDI RAJESH KUMAR
4)GALI SURESH REDDY
5)NIMMALA MANGATHAYARU
6)V. JANAKI
7)V. SRAVAN KIRAN
(72)**Name of Inventor :**
1)VANGIPURAM RADHAKRISHNA
2)ARAVIND CHERUVU
3)GUNUPUDI RAJESH KUMAR
4)GALI SURESH REDDY
5)NIMMALA MANGATHAYARU
6)V. JANAKI
7)V. SRAVAN KIRAN

(57) Abstract :
A system for diagnosis of diseases is disclosed. The system receives a medical image and. converts resolution of the medical image into a predefined resolution to obtain a sample image. The system obtains an intensity value matrix upon converting the sample image into gray scale image and obtain a testing data set by converting the intensity value matrix into a test row vector. The system includes a dimensionality reduction module to generate a dimensionality reduced test matrix based on the testing data set and a transformation training matrix obtained from a training data set. The system includes a similarity identification module to identify a similarity value of each row vector of the dimensionality reduced test matrix with a dimensionality reduced training matrix. The system includes a disease classification module to assign a class label of a training row vector to the test row vector based on a maximum similarity value and identify a type of disease present in the medical based on the class label. FIG. 1

No. of Pages : 37 No. of Claims : 9