

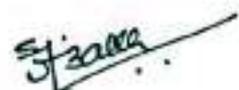


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Affiliated to Rajiv Gandhi University of Health Sciences Bangalore &
Recognized by Dental Council of India (New Delhi)

3.2.1 Details of innovations

Sr. No	Title	Staff Name	Link
1	Patent: A System of Teeth Examination Using Deep Learning	Dr. SYED ZAKAULLAH	https://www.quickcompany.in/patents/a-system-of-teeth-examination-using-deep-learning
		Dr. GHOSIA FATIMA	
		Dr. NEHA BHUTANI	
		Dr. PARVEZ ABUBAKAR	
		Dr. SUMA B SATENAHALLI	
		Dr. MOHAMMAD KHAJA MOINUDDIN	
2	Patent: Oral Care Monitoring System and Methods Thereof	Dr. SYEDA ARSHIYA ARA	https://www.quickcompany.in/patents/oral-care-monitoring-system-and-methods-thereof
		Dr. SHEREEN FATIMA	
		Dr. TANVEER FATIMA	
		Dr. SAYEEDA LAEQUE	
		Dr. GHATOLE KIRAN	
		Dr. NAGAVENI M SANGAVI	
3	Copyright: Dental Hygiene system in India	Dr. UZMA ROOHI	https://copyright.gov.in/Documents/ERegister/E-Register_December_2022.pdf
		Dr. AAISHA SIDDIQUA ,	
		Dr. ROOPALI TAPASHETTI	
		Dr. SAFIYA SANA	
		Dr. MAHESH HIREGODAR	
		Dr. SHREESHAIL INDI	
		Dr. HUMERA AYESHA	
Dr. SANGEETA			
4	Copyright: Economic impact of Oral health services in India	Dr. HEENA ZAINAB Dr. ARSHAD HUSSAIN Dr. DEEPA HUGAR Dr. ASMA FATIMA Dr. HAMBIRE ASHWINI Dr. AMEENA SULTANA	https://copyright.gov.in/Documents/New_Applications/New_Applications_June_2022.pdf


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शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : A SYSTEM OF TEETH EXAMINATION USING DEEP LEARNING

(51) International classification :G06K0009620000, G06K0007100000, G01N0021880000, A61B0005000000, G01N0021170000

(86) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No : NA

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(57) Abstract :
 A SYSTEM OF TEETH EXAMINATION USING DEEP LEARNING Discloses herein a system of teeth examination using deep learning comprises Camera (101), Image Classification system (102); Sensors (103), Internet of Things (104); GUI (105); wherein a digital camera will be a key component of this system which captures image of tooth; wherein Image Classification system (102): In order to recognize the health of tooth that can possibly create a distraction. User need to classify images captured by a camera to activate the system from the ideal state, there are various techniques under artificial intelligence that can be used to do so, with the help of these techniques System classifies images captured by the camera to trigger sensors for further prevention to entry under the protected region. The Sensors measures the conditions to a wide range of objects regardless of shape, color, or surface texture; and they are also able to measure the physical conditions and send the information to the user or dentist through wireless technology. The Internet of things describes physical objects that are embedded with sensors, processing ability, software, and other technologies that connect and exchange data with other devices and systems over the Internet or other communications networks.

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(54) Title of the invention : ORAL CARE MONITORING SYSTEM AND METHODS THEREOF

(51) International classification :A61Q0011000000, A61B0005000000, G06N0003080000, G06K0009620000, G06K0009000000

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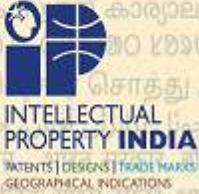
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(57) Abstract :
 ORAL CARE MONITORING SYSTEM AND METHODS THEREOF Discloses herein an oral care monitoring system comprises an IoT based system of oral health monitoring, comprising a Raspberry Pi platform, a transceiver module, a Wi-Fi modem, sensor nodes 101, a microphone 102, speaker (103) and a real time clock (RTC) 104 and a LoRa module (105); wherein, the sensor nodes are a temperature sensor, a LDR sensor, a pH sensor, a humidity sensor. The micro unit placed in the mouth is the primary for detecting and monitoring the status changes of teeth are therefore expected to detect and prevent dental diseases at their early stage; and a vision-based node is the unit of the system that provides the visuals inputs to the computing unit. The pre-trained deep learning (DL) model is powered to the computing unit to identify the unusually changes and objects based on visual data. The pre-trained deep learning (DL) model is powered to the computing unit to identify the unusually changes and objects based on visual data. In case, if the DL model identifies any object about to pass through the tooth, then the computing unit generates the alert and communicate it to the unit.

No. of Pages : 12 No. of Claims : 5



Extracts from the Register of Copyrights



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तिथि/Dated:24/07/2023

- पंजीकरण संख्या/Registration Number : **L-130500/2023**
- आवेदक का नाम, पता तथा राष्ट्रीयता
Name, address and nationality of the applicant : **AL-BADAR RURAL DENTAL COLLEGE & HOSPITAL ,
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Class and description of the work : **LITERARY/ DRAMATIC WORK ECONOMIC IMPACT OF
ORAL HEALTH SERVICES IN INDIA**
- कार्य का शीर्षक
Title of the work : **ECONOMIC IMPACT OF ORAL HEALTH SERVICES IN INDIA**
- कार्य की भाषा
Language of the work : **ENGLISH**
- लेखक का नाम, पता और राष्ट्रीयता तथा यदि लेखक की मृत्यु हो गई है, तो
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17. टिप्पणी, यदि कोई हो/Remarks, if any :
- डायरी संख्या/Diary Number: 12064/2022-CO/L
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Dated : 20/12/2022

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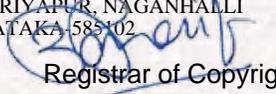
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15. If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details. : N.A.
16. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000.whether it has been applied to an article though an industrial process and ,if yes ,the number of times it is reproduced. : N.A.
17. Remarks, if any :
- Diary Number : 12062/2022-CO/L
- Date of Application : 07/06/2022
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