RECENT PATENT APPLICATIONS RELATING TO INTERNET OF MEDICAL THINGS (IoMT)

The IoMT is an interconnected network of medical devices, software applications, and healthcare systems/services. Here, we present snapshots from some recent publications (published in last 04 months) relating to this concept.

Publication No
- IN202041038022

Title
- IoMT Based Wearable Patient Monitoring And Critical Condition Detection System for Covid Patients

Summary
- An Internet of Medical Things (IoMT) based COVID-19 Patient Monitoring System (I-CPMS) is proposed and developed as a wearable gadget which can be utilized by patients and healthcare professionals in homes, quarantine cells, and hospitals. The I-CPMS monitors the temperature and pulse rate of hundreds of people under quarantine remotely and all these data stored in the cloud through Wi-Fi access point.

Publication No
- AU2020102146

Title
- Defence Method to Avoid Automated Attacks in IoT Networks Using Physical Unclonable Function (PUF) Based Mutual Authentication Protocol

Summary
- This invention employs Physical Unclonable Functions (PUFs) based on mutual authentication protocol is promoted as a robust and lightweight approach for securing IoT devices. A data protection and reliability review of the system discloses that they are indeed quite versatile towards various forms of threats and are relatively efficient in terms of computing, storage, resources, and connectivity overhead.

Publication No
- IN202021043526

Title
- Critical Condition Detection and Urgent Ambulance Help for Covid -19 Home Isolation Patient Using IoT

Summary
- The main aim of the proposed system is to provide the emergency help in terms of medical facility as well as transport facility to admit in dedicated Covid -19 hospitals in city for covid-19 infected home isolation patients without involvement of the other person so that spread of Covid-19 is reduced.

Publication No
- IN202021038607

Title
- Internet of Things Based Pet Dog Health Monitoring and Kennel Cough Detection System

Summary
- The main objective of this invention is to provide an IoT-based smart pet dog health monitoring and kennel cough disease detection system without human intervention that can increase kennel cough or health hazard detection accuracy.

Publication No
- IN202041040896

Title
- IoT Enabled Smart Health Care Automation System

Summary
- The proposed invention is capable of recoding data and communicating the same to the doctors/physicians to provide a real time data using IOT technology.

Publication No

•IN202041036038

Title

•Data Acquisition, Monitoring and Controlling System in Industries Using Internet of Things Controlled Robot

Summary

•DAMC (Data Acquisition, Monitoring, and Controlling) has a range of uses, including study and analysis, automation and control, validation of design and verification of industrial machines. The system is intended to collect (acquire) data from anyone or anywhere such as temperature, fire, gas leak etc. and displaying the data values in the website continuously and highlight any problem through the alert alarm and display.

Publication No

•IN202041039583

Title

•Machine Learning Based Health Data Analysis Using Web of Things

Summary

•The Convolution Neural Network (CNN) model is developed to predict an abnormality, which can consistently detect the information relevant to disease diagnosis from unstructured medical information.

Publication No

•WO2020181010

Title

•Internet of Things (IOT) Solution for Management of Urinary Incontinence

Summary

•The present disclosure relates to an intelligent internet of things (IoT) monitoring system, and in particular to techniques (e.g., systems, methods, computer program products storing code or instructions executable by one or more processors) for the implementation of an IoT solution to manage urinary incontinence.

Publication No

•US10837814

Title

•Smart Gas Cylinder Cap

Summary

•This invention generally relates to gas cylinder management, and it particularly relates to a mechanical valve coupled with a flow measurement apparatus that utilizes both wireless technology and micro-electro mechanical system (MEMS) mass flow sensing technology to manage the gas cylinders in

Publication No

•US20200320203

Title

•Continuous Risk Assessment for Electronic Protected Health Information

Summary

•Methods and systems for continuously and quantitatively assessing the risk to data confidentiality, integrity, and availability on identified on endpoints, servers, medical devices, and "Internet of things" devices in a networked healthcare environment monitor resource requests by user applications running on the various device. A map of resource usage by each application may be generated. Based on the map and a risk model (e.g., the contents of a risk database), application events associated with risks are detected and resources vulnerable to the risk may be identified.