(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/08/2023

(21) Application No.202311053271 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : IOT-BASED AUTOMATION FOR THE PURPOSE OF MONITORING TEMPERATURE AND VIBRATION IN PROCESSES AND PREVENTING ACCIDENTS

(51) International classification	:H04L0067120000, G06Q0010080000, G06Q0010060000, H04W0024040000, H04B0007155000
(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)DR.BHARAT BHUSHAN AGARWAL
Address of Applicant :ASSOCIATE PROFESSOR COMPUTER SCIENCE & ENGINEERING DEPARTMENT SCHOOL OF COMPUTER SCIENCE AND APPLICATIONS IFTM UNIVERSITY MORADABAD, PIN: 244102 UTTAR PRADESH INDIA ---------- ----------
2)Mr. Prakash Kumar H R
3)L.BABURAO
4)Dr. N. Saravanan
5)Dr.Priyanka Abhimanyu Pathade
6)Mr.G.Kiran Kumar
7)Y. SRINIVASA RAO
8)Dr.Belsam Jeba Ananth. M
9)Mr.D.Rajkumar
10)Dr.M. Suresh
11)Dr. ANIL KUMAR SINGH
12)Dr. Harikumar Pallathadka
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)DR.BHARAT BHUSHAN AGARWAL
Address of Applicant :ASSOCIATE PROFESSOR COMPUTER SCIENCE & ENGINEERING DEPARTMENT SCHOOL OF COMPUTER SCIENCE AND APPLICATIONS IFTM UNIVERSITY MORADABAD, PIN: 244102 UTTAR PRADESH INDIA ---------- ----------
2)Mr. Prakash Kumar H R
Address of Applicant :Senior Scale Lecturer, Department of Electronics & Communication Government Polytechnic Jodisrirangapura Road Hosadurga Chitradurga Pin: 577527 Karnataka India ---------- ----------
3)L.BABURAO
Address of Applicant :ASSISTANT PROFESSOR CHALAPATHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, LAM-GUNTUR, PIN: 522034 ANDHRA PRADESH INDIA ---------- ----------
4)Dr. N. Saravanan
Address of Applicant :Professor-IT K S R Institute for Engineering and Technology, Tiruchengode, Namakkal Dt Pin: 637207 Tamilnadu India ---------- ----------
5)Dr.Priyanka Abhimanyu Pathade
Address of Applicant :Assistant Professor J.S.P.M. Arts, Comm. & Sci. College Dhanora, Pin: 442606 Maharashtra India ---------- ----------
6)Mr.G.Kiran Kumar
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Institute of Aeronautical Engineering, Hyderabad, Medchal Malkajgiri, Pin:500043 Telangana India ---------- ----------
7)Y. SRINIVASA RAO
Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Guru Nanak Institutions Technical Campus, Manchal (M), Khanapur (V), Ibrahimpatnam, Ranga Reddy, 501506 Telangana India ---------- ----------
8)Dr.Belsam Jeba Ananth. M
Address of Applicant :Associate Professor Department of Mechatronics Engineering, SRM Institute of Science and Technology, Faculty of Engineering and Technology, Kattankulathur Chengalpattu Pin: 603 203 Tamil Nadu India ---------- ----------
9)Mr.D.Rajkumar
Address of Applicant :Assistant Professor, Department of Information Technology, Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore Pin: 641049 Tamilnadu, India ---------- ----------
10)Dr.M. Suresh
Address of Applicant :Associate professor St.Joseph's college of engineering, OMR, Chennai Chengalpattu Pin:600119 Tamil Nadu India ---------- ----------
11)Dr. ANIL KUMAR SINGH
Address of Applicant :Associate Professor, College of Computing Science, Teerthanker Mahaveer University, Moradabad. Pin:244001 Uttar Pradesh India ---------- ----------
12)Dr. Harikumar Pallathadka
Address of Applicant :Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Imphal Pin: 795140 Manipur India ---------- ----------

(57) Abstract :
IoT-based automation for the purpose of monitoring temperature and vibration in processes and preventing accidents ABSTRACT: The notion of the Internet of Things (IoT) has proven to be highly advantageous in various domains, enhancing the quality of our daily lives. Undoubtedly, condition monitoring is among the facilities offered in this sector. In contrast to routine maintenance, Internet of Things (IoT) systems that engage in ongoing control operations offer significant benefits to companies by providing advance notice of potential critical failures. It is of utmost importance to detect faulty bearings in power generating and power-consuming equipment before they reach a severe level of malfunction. In order to maintain a competitive edge within the contemporary market landscape, manufacturing enterprises are compelled to not only generate items of superior quality, but also execute this process within designated timeframes to avoid any disruptions within supply chains and prevent customer dissatisfaction. Regrettably, every facet of production encounters a substantial likelihood of equipment malfunction and unanticipated periods of inactivity, resulting in the inability to meet production and delivery deadlines. Nevertheless, manufacturers have the ability to mitigate or completely eradicate unforeseen periods of inactivity through the utilization of condition monitoring methodologies and Internet of Things (IoT) technologies.

No. of Pages : 12 No. of Claims : 6