

Home (<http://ipindia.nic.in/index.htm>) About Us (<http://ipindia.nic.in/about-us.htm>) Who's Who (<http://ipindia.nic.in/whos-who-page.htm>)  
 Policy & Programs (<http://ipindia.nic.in/policy-pages.htm>) Achievements (<http://ipindia.nic.in/achievements-page.htm>)  
 RTI (<http://ipindia.nic.in/right-to-information.htm>) Feedback (<https://ipindiaonline.gov.in/feedback>) Sitemap (<http://ipindia.nic.in/itemap.htm>)  
 Contact Us (<http://ipindia.nic.in/contact-us.htm>) Help Line (<http://ipindia.nic.in/helpline-page.htm>)

[Skip to Main Content](#) [Screen Reader Access \(screen-reader-access.htm\)](#)



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



(<http://ipindia.nic.in/inc>)

## Patent Search

Invention Title	IOT BASED EMERGENCY HEALTHCARE SYSTEM
Publication Number	05/2021
Publication Date	29/01/2021
Publication Type	INA
Application Number	202111002809
Application Filing Date	20/01/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMMUNICATION
Classification (IPC)	A61B 5/00 A61B 5/024 A61B 5/01

### Inventor

Name	Address	Country	Nat
Dr. Rama Sushil	Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi
Diwaker	Assistant Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi
Anurag Shrivastava	Assistant Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi
Ankit Agarwal	Assistant Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi

### Applicant

Name	Address	Country	Nat
Dr. Rama Sushil	Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi
Diwaker	Assistant Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi
Anurag Shrivastava	Assistant Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi
Ankit Agarwal	Assistant Professor, Department of Computer Science and Engineering, School Of Computing, DIT University, Mussoorie Diversion Road Village Makkawala, 248009, Dehradun Uttarakhand India.	India	Indi

### Abstract:

An IOT based emergency healthcare system including a body worn on a user's wrist, wirelessly connected to a user platform for providing real time information regarding vital signs towards a healthcare personnel, multiple sensors fitted in the body for measuring the user's vital signs, an AI based imaging unit configured in the body for visu monitoring health status and wellbeing of the user, a communication module fitted in the body establishing connection with the user platform for providing real time heal information of the user detected through the sensors and imagining unit towards the healthcare personnel, a vein detection module attached to the body connected to th communication module for locating the user's vein and a non-invasive injector configured in the body for administering administers therapeutic medicine in coordination vein detection module, providing remote health care monitoring and first aid treatment to the user.

Complete Specification

The present invention relates to an IOT based emergency healthcare system that helps user(s) in monitoring health status of severely ailing patient and providing emergency first aid treatment for maintaining the patient's wellbeing, preventing deterioration of the patient's health.

## BACKGROUND OF THE INVENTION

10 [0002] The heritage of medical and health sciences has been evolved with recent advances in treatment strategies. In the COVID-19 scenario, the healthcare sector has emerged as one of the largest sector in terms of revenue and employment. The modern healthcare includes hospitals, medical devices, outsourcing, telemedicine, medical tourism and advanced medical equipment. Despite of having extremely vast pool of well-trained medical professionals, pandemic situation like COVID19 has impacted the healthcare organization and their emergency services. Moreover, the regular visits to healthcare centers for regular checkups have become jeopardized due to risk of developing infection. Further, the emergency services of the healthcare centers are facing accommodation problems for treating patients with pre-existing diseases. With the increase in COVID-19 cases, the

[View Application Status](#)

**Department of Industrial  
Policy and Promotion**  
Government of India

Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)

Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)

Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)

Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019