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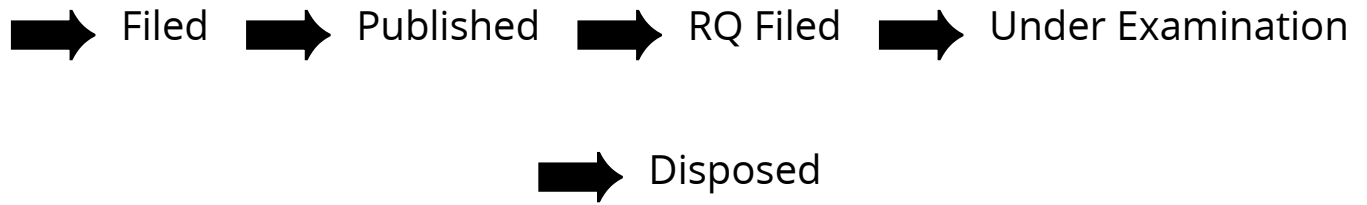
#### Application Details

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APPLICANT NAME	Vets Institute of Science Technology & Advanced Studies
TITLE OF INVENTION	SMART BIOMEDICAL SUPPORT EQUIPMENT WITH IOT
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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#### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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(54) Title of the invention : **SMART BIOMEDICAL SUPPORT EQUIPMENT WITH IOT**

(51) International classification	:A61B 5/00, A61B 5/01, A61B 5/0205, G16H 40/67, A61B 5/024	(71)Name of Applicant : <b>1)Vets Institute of Science Technology &amp; Advanced Studies</b> Address of Applicant :THE REGISTRAR, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES (VISTAS), PALLAVARAM, CHENNAI-600117, TAMIL NADU, INDIA herlinsam.me@gmail.com Tamil Nadu India
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(86) International Application No	:NA	<b>3)Dr.K.Sushita</b>
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(57) Abstract :

The present invention relates to a smart biomedical support equipment integrated with Internet of Things (IoT) technology for continuous monitoring, management, and remote supervision of patient health parameters. Modern healthcare systems require advanced medical devices capable of real-time monitoring and data transmission to support clinical decision-making and patient safety. The proposed system provides an intelligent biomedical equipment platform capable of monitoring physiological parameters such as heart rate, body temperature, oxygen saturation, blood pressure, respiratory rate, and other health indicators. The equipment incorporates multiple biomedical sensors connected to an embedded control unit that processes sensor data and controls the operation of medical support modules. The device further includes an IoT communication module capable of transmitting patient health data to remote healthcare systems through wireless communication networks such as Wi-Fi, cellular networks, or Bluetooth. The system may also be integrated with cloud-based platforms for data storage, analytics, and remote monitoring by healthcare professionals. The equipment may include automated alert systems that notify healthcare personnel when abnormal physiological parameters are detected.

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