(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/11/2025

(21) Application No.202511106882 A

(43) Publication Date : 26/12/2025

(54) Title of the invention : AN AI-POWERED DEVICE FOR REAL-TIME HEARTBEAT MONITORING

(51) International classification	:H04L 41/0631, H04L 41/069, H04W 68/06, H04W 68/08, H04W 68/10
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	: :01/01/1900
(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)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY
Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(72)**Name of Inventor :**
1)SUBHASH CHANDRA
2)AARUSHI THUSU

(57) Abstract :
The present invention relates to an AI-powered device (100) for real-time heartbeat monitoring. The device integrates biomedical sensors (110) to capture cardiac signals, an AI-powered processing unit (120) for predictive analysis, and an alert/display module (130) for instant notifications. A wireless unit (140) enables cloud connectivity, while an interface (150) provides user interaction. The invention ensures continuous, accurate, and adaptive monitoring, offering predictive detection of arrhythmias and anomalies, thereby enhancing patient safety and enabling remote healthcare support in clinical and personal environments.

No. of Pages : 14 No. of Claims : 6