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(71)**Name of Applicant :**
1)SR University
Address of Applicant :SR University, Ananthasagar, Warangal Telangana India 506371 patent@sru.edu.in 08702818333 Warangal ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Kothakonda Chandhar
Address of Applicant :SR University, Ananthasagar, Warangal, Telangana-506371, India Warangal ---------- ----------
2)Dr. Sadanandam Macharla
Address of Applicant :Kakatiya University, Warangal, Telangana, India Warangal ---------- ----------
3)Naresh Kumar Sripada
Address of Applicant :SR University, Ananthasagar, Warangal, Telangana-506371, India Warangal ---------- ----------
4)Erroju Ramakrishna
Address of Applicant :SR University, Ananthasagar, Warangal, Telangana-506371, India Warangal ---------- ----------

(57) Abstract :
SMART TRACKING DEVICE WITH LONG-DISTANCE GEOLOCATION AND REMOTE MONITORING FOR EPILEPSY PATIENTS ABSTRACT A smart tracking device (100) for remote monitoring of epilepsy patients is disclosed. The device comprises a detection unit (102) equipped with an Electroencephalography (EEG) sensor (104) to observe real-time brain activity and a motion sensor (106) to detect fall movements. Additionally, a Global Positioning System (GPS) (108) is integrated to provide geolocation data. A processing unit (112), connected to the detection unit and a communication unit (110), is configured to receive, process, and analyze the real-time detection data tagged with geolocation information. The processing unit generates patterns from the data, identifying abnormalities indicative of seizure events. Upon detection, the communication unit transmits notifications, including geolocation data and device identification number, to a remote monitoring platform (114). This device enables timely intervention and enhanced management of epilepsy patients, ensuring efficient and reliable remote monitoring. Claims: 9, Figures: 3 Figure 1 is selected.

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