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पेटेंट कार्यालय का एक प्रकाशन
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शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है ।

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(57) Abstract :
The present invention, titled "Smart Ambulance Framework for Emergency Response with Embedded Monitoring System (SAFER-EMS)," introduces an integrated and advanced system designed to revolutionize emergency medical services (EMS) by enhancing pre-hospital care, optimizing emergency response time, and ensuring secure real-time communication between ambulances and hospitals. The system incorporates a combination of cyber-physical systems, Internet of Things (IoT), fog computing, secure communication networks, and AI-based decision support tools to address critical gaps in traditional ambulance services. The SAFER-EMS framework is composed of several key components: embedded biomedical sensors for continuous health monitoring (e.g., ECG, heart rate, blood pressure, oxygen saturation), onboard fog computing for real-time data processing, and secure wireless communication modules for transmitting patient data to hospitals. The integration of GPS-based vehicle tracking allows for dynamic routing and smart traffic control, ensuring that ambulances can bypass congested areas and significantly reduce response times. This system also integrates advanced data encryption techniques to maintain the security and privacy of patient information during transmission. The hospital is equipped with a dashboard that receives live updates on patient vitals and estimated time of arrival (ETA), allowing medical teams to prepare in advance for the patient's arrival and thus improving treatment outcomes. In addition, the system supports voice-enabled paramedic assistance that provides step-by-step treatment protocols and hands-free communication with doctors. SAFER-EMS further enhances the coordination between traffic management systems and ambulances by utilizing IoT gateways and vehicle-to-infrastructure (V2I) communication protocols. This ensures the seamless clearance of the ambulance through traffic signals, optimizing the route for faster transit. In areas with limited infrastructure, the system utilizes RF or Zigbee-based communication for real-time updates. The system's modular design allows for easy deployment across different regions—urban, semi-urban, and rural—while the use of cloud platforms for data analytics enables hospitals to leverage big data for predictive health analytics and medical decision- making. This framework is not only scalable but also supports the training of medical professionals through the analysis of historical patient transport data. By integrating these technologies into the EMS framework, SAFER-EMS aims to drastically improve the quality of emergency care, reduce mortality rates, and offer a cost-effective solution for modernizing emergency medical services across diverse regions. The system is also designed to adhere to relevant healthcare data protection regulations such as HIPAA and GDPR, ensuring the ethical handling of sensitive patient data.

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