

(54) Title of the invention : INTEGRATED IOT SOLUTIONS FOR HOLISTIC ELDERLY CARE: CONTINUOUS VITAL SIGNS MONITORING AND ALERTS IN HUMAN-CENTRIC SMART HOMES

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(57) Abstract :  
 Integrated IoT Solutions for Comprehensive Elderly Care: Continuous Monitoring of Vital Signs and Alerts in Human-Centric Smart Homes is the proposed invention. The system harnesses the capabilities of the Internet of Things (IoT) to establish a holistic and person-centered approach to caring for the elderly within smart home environments. Through strategically positioned IoT devices throughout the living space, the system enables ongoing monitoring of vital signs, including key health indicators like heart rate and respiratory rate. Real-time data analysis triggers personalized alerts and notifications, offering timely information to caregivers and ensuring a proactive response to potential health issues. This technology-driven and comprehensive approach aims to elevate the well-being and safety of elderly individuals, promoting independence and an enhanced quality of life within the familiar setting of their homes.

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