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(57) Abstract :
The proposed invention, "Harvesting Kinetic Energy for Sustainable Mobile Charging using Electromagnetic Induction," presents an innovative and eco-friendly method for generating electricity by converting mechanical motion into electrical energy to charge portable electronic devices. Utilizing the principle of electromagnetic induction, the system incorporates a compact coil-magnet assembly embedded into wearable accessories or mobile units. As the user moves, mechanical energy is converted into usable electric current, which is stored in a rechargeable battery or supercapacitor through regulated circuits. The system operates independent of environmental factors, making it ideal for remote, off-grid, and emergency applications. This self-sustaining, user-friendly technology reduces reliance on conventional power grids, promotes energy independence, and encourages sustainable living. The device is lightweight, modular, and cost-effective, capable of integration into various user environments including urban, rural, and extreme outdoor conditions. It offers a practical solution to the global need for accessible, clean energy while aligning with future trends in mobile technology and environmental sustainability.

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