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(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. -----
Name of Applicant : NA
Address of Applicant : NA
 (72)**Name of Inventor :**
1)Dr. VIKAS SAGAR
 Address of Applicant :Department of Computer Science & Engineering (AI), Noida Institute of Engineering & Technology, Greater Noida. Greater Noida -----

(57) Abstract :

A wireless real-time Newton's Cradle analyzer system includes motion-sensing modules (101), impact sensors (102), and a central microcontroller unit (104) with a display (105). The system logs kinetic data during collisions between spheres (103) and transmits results via Bluetooth to an external device. A rechargeable power unit (106) supports the embedded electronics. The invention enables quantitative evaluation of momentum and energy conservation phenomena, allowing enhanced learning and experimentation in educational and research settings.

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