(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2023

(21) Application No.202311078110 A
(43) Publication Date : 29/12/2023

(54) Title of the invention : “NANOSCALE ENERGY HARVESTING SYSTEMS FOR SELF-POWERED DEVICES”

(51) International classification :A01K0061600000, B82Y0030000000, H02K0007180000, H01L0029660000, H02J0007350000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
“NANOSCALE ENERGY HARVESTING SYSTEM FOR SELF-POWERED DEVICES” The present invention provides a nanoscale energy harvesting system for self-powered devices. The system includes a plurality of nanoscale energy-sensing modules, a nanoscale energy-transforming module, and a power source. The plurality of nanoscale energy-sensing modules senses the energy waves available in an environment. The nanoscale energy-transforming module processes the sensed energy to transform it into electric energy. The power source stores the generated electric energy. The energy waves include heat waves, light waves, sound waves, frequency waves, wind waves (kinetic energy waves), or any other type of wave. The energy-sensing modules comprise sensors that sense the intensity of said energy in a vicinity thereof. The energy-transforming module comprises solar panels, tuning fork-based vibratory generators, electric generators, turbines, etc. The power source is connected to the self-powered devices. Figure 1

No. of Pages : 17 No. of Claims : 8