Title (en)

MAGNETO-INDUCTIVE ENERGY HARVESTER DEVICE, HAVING AN INTERNAL GUIDE MAGNETIC SUSPENSION

Title (de)

MAGNETISCH-INDUKTIVE ENERGIEGEWINNUNGSVORRICHTUNG MIT MAGNETISCHER AUFHÄNGUNG MIT INTERNER FÜHRUNG

Title (fr)

DISPOSITIF DE COLLECTE D'ÉNERGIE MAGNÉTO-INDUCTIF, AYANT UNE SUSPENSION MAGNÉTIQUE DE GUIDE INTERNE

Publication

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Application

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Priority

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- IT 2013000167 W 20130612

Abstract (en)

[origin: WO2013190585A1] A magnetic-inductive harvester device (1) with magnetic suspension is described, adapted to transform kinetic energy of vibrations into electric energy, comprising a moving magnetic element (6) sliding along an internal sliding guide (7), a fixed magnetic element (8) arranged in a vertically lower end of the internal sliding guide (7), the fixed magnetic element (8) and the moving magnetic element (6) sliding along the internal sliding guide (7) being mutually oriented to oppose the two faces with the same polarity to generate a repulsion force, and a winding (9) formed of a first coil (10) made of electrically conductive material adapted to concatenate a magnetic field of the moving element (6) sliding along the internal sliding guide (7). An integrated self-suppliedmodule (20) for measuring and transmitting data is also described, comprising the harvester device (1) adapted to be part of a self-supplied, multi-node "sensing wireless" network (30) comprising a plurality of such modules (20).

IPC 8 full level

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CPC (source: EP)

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