

Title (en)
SELF ENERGIZED WIRELESS MEMS DEVICES

Title (de)
SELBST ENERGIE GESPEISTE DRAHTLOSE MEMS EINRICHTUNG

Title (fr)
DISPOSITIFS DE MICROSYSTEME ELECTROMECHANIQUE SANS FIL A MISE SOUS TENSION AUTOMATIQUE

Publication
EP 1299030 A2 20030409 (EN)

Application
EP 01950583 A 20010628

Priority
• US 0120561 W 20010628
• US 61278500 A 20000710

Abstract (en)
[origin: WO0203856A2] A wireless, remote sensor is implemented by integrating a MEMS sensor, an energy harvesting/storage MEMS, a transceiver MEMS and a miniature antenna. A low charge of energy, created by vibratory, heat or chemical action, in the micro-watt range, is generated and stored by the harvesting/storage MEMS for powering the combined MEMS device. A central monitoring station signals the MEMS transceiver to transmit any data acquired by the MEMS sensor. Power is provided by the harvesting/storage MEMS to transmit data, obtained by the sensor, via the miniature antenna to the central monitoring station. Transmitting time is very short, requiring little power, and the transceiver is only activated by a signal from the monitoring station.

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A61B 5/00

IPC 8 full level
A61B 5/00 (2006.01)

CPC (source: EP)
A61B 5/0031 (2013.01); **G01M 5/00** (2013.01); **A61B 2562/028** (2013.01)

Citation (search report)
See references of WO 0203856A2

Designated contracting state (EPC)
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