Title (en)

METHOD FOR MEASURING AN ACCELERATION USING A PIEZOELECTRIC VIBRATING ACCELEROMETER AND CORRESPONDING MEASUREMENT DEVICE

Title (de)

VERFAHREN ZUR MESSUNG EINER BESCHLEUNIGUNG MIT EINEM VIBRIERENDEN PIEZOELEKTRISCHEN AKZELEROMETER SOWIE ENTSPRECHENDE MESSVORRICHTUNG

Title (fr)

PROCEDE DE MESURE D'UNE ACCELERATION AU MOYEN D'UN ACCELEROMETRE VIBRANT PIEZO-ELECTRIQUE ET DISPOSITIF DE MESURE CORRESPONDANT

Publication

EP 2171481 A2 20100407 (FR)

Application

EP 08829111 A 20080716

Priority

- FR 2008001039 W 20080716
- FR 0705220 A 20070719

Abstract (en)

[origin: FR2919067A1] The method involves exciting a piezo-electric vibrating cell (1) of a vibrating accelerometer using an excitation signal at a resonance frequency (f0) of the cell. An acceleration valve is calculated from a detection signal resulting from the excitation signal. The cell is excited with a correction excitation signal at correction frequencies (f1, f2). A correction signal representative of a parasite electrical characteristic to be corrected is extracted from the detection signal. The correction signal is combined with the detection signal using an adder (4) to reduce the characteristic. An independent claim is also included for a device for measuring acceleration using a vibrating accelerometer.

IPC 8 full level

G01P 15/097 (2006.01)

CPC (source: EP US)

G01P 15/097 (2013.01 - EP US); **G01P 21/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2009030829A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2919067 A1 20090123; **FR 2919067 B1 20090828**; EP 2171481 A2 20100407; US 2010186509 A1 20100729; US 8413508 B2 20130409; WO 2009030829 A2 20090312; WO 2009030829 A3 20090522

DOCDB simple family (application)

FR 0705220 A 20070719; EP 08829111 A 20080716; FR 2008001039 W 20080716; US 66931908 A 20080716