

Title (en)

FLEXURE PIVOT OSCILLATOR INSENSITIVE TO GRAVITY

Title (de)

SCHWERKRAFTUNEMPFLINDLICHER BIEGESCHWENKOSZILLATOR

Title (fr)

OSCILLATEUR À PIVOT DE FLEXION INSENSIBLE À LA GRAVITÉ

Publication

EP 3824353 B1 20231129 (EN)

Application

EP 19737760 A 20190712

Priority

- EP 18183606 A 20180716
- EP 2019068840 W 20190712

Abstract (en)

[origin: WO2020016131A1] The mechanical oscillator according to the invention comprises an oscillating body (601), at least one rigid intermediate body (602) and a support (600). Each rigid intermediate body is connected to the support by a pair of elements (610, 611) providing rotational guidance. The elements of each pair are elastically substantially identical to each other and extend along respective axes which, in orthogonal projection onto a plane parallel to the oscillation plane of the oscillating body, cross at a point (G) and are symmetric to each other with respect to a line (x) passing between the points of junction of the first pair of elements to the rigid intermediate body. The rigid intermediate body is connected to the oscillating body by at least one further element (604, 605) providing relative guided mobility between the oscillating body and the rigid intermediate body in a direction substantially parallel to the line (x) during regular functioning of the mechanical oscillator. In a variant the pair of elements connect the rigid intermediate body to the oscillating body and the at least one first further element connects the rigid intermediate body to the support.

IPC 8 full level

G04B 17/04 (2006.01); **G04B 17/26** (2006.01); **G04B 17/28** (2006.01)

CPC (source: EP)

G04B 17/045 (2013.01); **G04B 17/26** (2013.01); **G04B 17/28** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2020016131 A1 20200123; EP 3824353 A1 20210526; EP 3824353 B1 20231129

DOCDB simple family (application)

EP 2019068840 W 20190712; EP 19737760 A 20190712