Title (en)

MECHANICAL MOVEMENT WITH ISOCHRONOUS ROTARY RESONATOR, WHICH IS NOT POSITION-SENSITIVE

Title (de)

MECHANISCHES UHRWERK MIT SICH DREHENDEM ISOCHRONEM RESONATOR, DER POSITIONSUNEMPFINDLICH IST

Title (fr)

MOUVEMENT MÉCANIQUE AVEC RÉSONATEUR ROTATIF, ISOCHRONE, INSENSIBLE AUX POSITIONS

Publication

EP 3435173 B1 20200429 (FR)

Application

EP 17183211 A 20170726

Priority

EP 17183211 A 20170726

Abstract (en)

[origin: US2019032644A1] Mechanical horological movement comprising at least one energy storage means designed to drive a gear train of which an output mobile component is designed to pivot about a drive axis and comprising a rotary resonator which comprises at least one central mobile component designed to pivot about a central axis and comprising an input mobile component designed to collaborate with the output mobile component, this rotary resonator comprises a plurality of inertial elements each one designed to pivot with respect to the central mobile component about a secondary axis perpendicular to the central axis and each returned towards a rest position, relative with respect to the central mobile component, by at least one elastic return element, and each secondary axis passes through the centre of mass of the inertial element associated with it.

IPC 8 full level

G04B 17/30 (2006.01)

CPC (source: CH CN EP RU US)

F03G 7/08 (2013.01 - EP US); **G04B 17/04** (2013.01 - CN); **G04B 17/26** (2013.01 - CH EP); **G04B 17/28** (2013.01 - CH EP); **G04B 17/30** (2013.01 - CH EP RU US); G04B 17/045 (2013.01 - EP US)

Cited by

EP3812843A1; US11693366B2

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)

EP 3435173 A1 20190130; **EP 3435173 B1 20200429**; CH 714019 A2 20190131; CN 109307998 A 20190205; CN 109307998 B 20200915; JP 2019039908 A 20190314; JP 6676708 B2 20200408; RU 2687510 C1 20190514; US 10927824 B2 20210223; US 2019032644 A1 20190131

DOCDB simple family (application)

EP 17183211 A 20170726; CH 9682017 A 20170726; CN 201810825408 A 20180725; JP 2018133946 A 20180717; RU 2018127092 A 20180724; US 201816039828 A 20180719