

Title (en)

Magnetic resonator for mechanical timepiece

Title (de)

Magnetischer Resonator für eine mechanische Uhr

Title (fr)

Résonateur magnétique pour pièce d'horlogerie mécanique

Publication

EP 2466401 B1 20130814 (FR)

Application

EP 10195101 A 20101215

Priority

EP 10195101 A 20101215

Abstract (en)

[origin: EP2466401A1] The resonator has an escape wheel (6) engaged with a finishing gear so as to enable the escape wheel to be driven by an energy source of a timepiece. The wheel has permanent magnets (61-66) arranged in a manner, such that vibrations of one of arms (2, 3) of a diapason-type oscillator (1) control rotational speed of the wheel, and are periodically propagated by magnetic interaction between permanent magnets (4, 5) of the oscillator and the permanent magnets of the wheel in order to define free escapement.

IPC 8 full level

G04C 5/00 (2006.01)

CPC (source: EP US)

G04C 5/005 (2013.01 - EP US); **Y10T 74/1502** (2015.01 - EP US)

Cited by

CN106462109A; CN105264444A; WO2015018636A3; EP2942673A1; WO2015169708A2; WO2015018636A2; US10222757B2; JP2016520845A

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 2466401 A1 20120620; EP 2466401 B1 20130814; CN 103384856 A 20131106; CN 103384856 B 20160810; JP 2013545996 A 20131226; JP 5825539 B2 20151202; US 2013279302 A1 20131024; US 8794823 B2 20140805; WO 2012080413 A1 20120621

DOCDB simple family (application)

EP 10195101 A 20101215; CN 201180059281 A 20111215; EP 2011072941 W 20111215; JP 2013543789 A 20111215; US 201313917430 A 20130613