

Title (en)
Timepiece with permanently coupled oscillators

Title (de)
Uhr mit permanent gekoppelten Oszillatoren

Title (fr)
Pièce d'horlogerie à oscillateurs couplés de manière permanente

Publication
EP 2570870 B1 20160406 (FR)

Application
EP 11181508 A 20110915

Priority
EP 11181508 A 20110915

Abstract (en)
[origin: EP2570870A1] The timepiece (1) has an oscillator (15) oscillating at frequency and connected to an energy source (9) by a gear train (5), and another oscillator (35) oscillating at another frequency and connected to another gear train (25). The latter train is connected to the former train by an elastic coupling unit (41) in order to synchronize rate of the two oscillators using the same energy source. The elastic coupling unit is formed by a spring (43) connecting a wheel of the former train to another wheel of the latter train. The two frequencies are identical and higher than 5 hertz.

IPC 8 full level
G04B 17/22 (2006.01); **G04B 17/26** (2006.01); **G04F 7/08** (2006.01)

CPC (source: EP US)
G04B 11/003 (2013.01 - EP US); **G04B 17/20** (2013.01 - EP US); **G04B 17/26** (2013.01 - EP US); **G04F 7/0823** (2013.01 - EP US)

Cited by
CH708658A1; CH712597A1; EP3715960A1; EP2908190A3; CH709394A1; CN106462104A; CN110520802A; WO2015140168A2; US9588492B2; WO2015140168A3; WO2015049090A1; WO2020201918A1; US9581969B2; WO2016037726A1; EP3130966B1

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 2570870 A1 20130320; EP 2570870 B1 20160406; CH 705494 A2 20130315; CN 102998960 A 20130327; CN 102998960 B 20150909; HK 1183527 A1 20131227; JP 2013064738 A 20130411; JP 5486060 B2 20140507; RU 2012139634 A 20140320; RU 2598557 C2 20160927; US 2013070572 A1 20130321; US 8801270 B2 20140812

DOCDB simple family (application)
EP 11181508 A 20110915; CH 15312011 A 20110915; CN 201210342783 A 20120914; HK 13110949 A 20130925; JP 2012203955 A 20120918; RU 2012139634 A 20120914; US 201213609943 A 20120911