

Title (en)
OSCILLATOR FOR CLOCKWORK MOVEMENT

Title (de)
OSZILLATOR FÜR UHRWERK

Title (fr)
OSCILLATEUR DE MOUVEMENT HORLOGER

Publication
EP 2771743 B1 20240508 (FR)

Application
EP 12783915 A 20121023

Priority
• EP 11405342 A 20111024
• EP 2012070936 W 20121023
• EP 12783915 A 20121023

Abstract (en)
[origin: WO2013064390A1] An oscillator (10) comprising a spiral spring (11) made from a paramagnetic or diamagnetic material and an assembled balance wheel (12) comprising a shaft (13) on which the following elements are fitted: a balance wheel (14), a plate (15) and a collet (16) rigidly connected with said spiral spring (11), characterised in that the maximum diameter (Dmax) of the shaft is less than 3.5, or even 2.5, or even 2 times the minimum diameter (D1) of the shaft on which one of the elements is fitted or in that the maximum diameter (Dmax) of the shaft is less than 1.6, or even 1.3 times the maximum diameter (D2) of the shaft on which one of the elements is fitted.

IPC 8 full level
G04B 17/06 (2006.01)

CPC (source: EP US)
G04B 17/06 (2013.01 - US); **G04B 17/063** (2013.01 - EP US); **G04B 17/32** (2013.01 - US); **G04B 17/325** (2013.01 - US)

Citation (examination)
• CH 700260 A2 20100730 - CARTIER CREATION STUDIO SA [CH]
• EP 2104007 A1 20090923 - NIVAROX SA [CH]
• EP 2317407 A1 20110504 - NIVAROX SA [CH]

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)
CH 705655 A2 20130430; CH 705655 B1 20161215; CN 103890666 A 20140625; CN 103890666 B 20171013; EP 2771743 A1 20140903; EP 2771743 B1 20240508; EP 4386487 A2 20240619; JP 2014531026 A 20141120; JP 6231986 B2 20171115; US 2014247704 A1 20140904; US 9740170 B2 20170822; WO 2013064390 A1 20130510

DOCDB simple family (application)
CH 20732012 A 20121023; CN 201280052138 A 20121023; EP 12783915 A 20121023; EP 2012070936 W 20121023; EP 24171797 A 20121023; JP 2014536289 A 20121023; US 201214353065 A 20121023