Title (en)

MECHANISM FOR REGULATING THE RATE OF A CLOCK OSCILLATOR

Title (de)

EINSTELLMECHANISMUS DES GANGS EINES OSZILLATORS EINER UHR

Title (fr)

MÉCANISME DE RÉGLAGE DE MARCHE D'UN OSCILLATEUR D'HORLOGERIE

Publication

EP 3118693 B1 20180509 (FR)

Application

EP 15176957 A 20150716

Priority

EP 15176957 A 20150716

Abstract (en)

[origin: US2017017205A1] A microsystem for setting the rate of a timepiece oscillator, including a wheel/inertia block including an off-centre unbalance and a toothing and arranged to pivot with respect to a base plate of the microsystem, which includes an actuator driving a first active click arranged to drive the toothing, and includes a device for stopping the toothing in position, wherein the actuator is a thermomechanical actuator arranged to convert a flow of light energy into a displacement of a distal end of the thermomechanical actuator, which carries a first active click or directly controls a movement of a first active click, and the microsystem is capable of incorporation in a watch including a crystal transparent to predetermined wavelengths ranges and allowing the passage of a light ray to regulate the microsystem.

IPC 8 full level

G04B 18/00 (2006.01); **G04D 7/08** (2006.01); **G04D 7/12** (2006.01)

CPC (source: CN EP RU US)

G04B 17/063 (2013.01 - EP RU US); **G04B 18/00** (2013.01 - CN); **G04B 18/006** (2013.01 - EP RU US); **G04B 18/02** (2013.01 - RU US); **G04B 18/04** (2013.01 - EP RU US); **G04B 27/007** (2013.01 - EP); **G04D 7/084** (2013.01 - EP RU US); **G04D 7/087** (2013.01 - EP RU US); **G04D 7/1264** (2013.01 - EP RU US)

Citation (examination)

JP S5238254 A 19770324 - SEIKO INSTR & ELECTRONICS

Cited by

EP3485334B1; WO2016184736A1; EP3339984A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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EP 15176957 A 20150716; CH 10342015 A 20150716; CN 201610561109 A 20160715; JP 2016138278 A 20160713; RU 2016128898 A 20160714; US 201615208131 A 20160712