

Title (en)

Anti-tripping device for escapement mechanism

Title (de)

Antischwingungsvorrichtung für Uhrenhemmungsmechanismus

Title (fr)

Dispositif anti-galop pour mécanisme d'échappement

Publication

EP 2450756 B1 20150107 (FR)

Application

EP 10189998 A 20101104

Priority

EP 10189998 A 20101104

Abstract (en)

[origin: EP2450756A1] The device (1) has a pivoting mobile (5) including a guide unit arranged for cooperating with a complementary guide unit (9) that includes a roller (3) fixed to a balance (2). The guide unit or complementary guide unit includes a cam arranged to move the mobile closer to a pivot axis (D1) when the balance is pivoting in a pivoting direction and to move the balance from the axis when the balance is pivoting in another pivoting direction opposite to the former pivoting direction. The complementary guide unit or the guide unit includes a fixed finger arranged to cooperate with the cam. The assembly formed of balance and roller is made of silicon, or quartz or silicon or quartz compound or an alloy issued from microelectromechanical system (MEMS) technology or alloy obtained from Deep reactive-ion etching (DRIE) or Lithography, electroplating, and molding process or partially amorphous material. An independent claim is also included for an escape mechanism comprising an anti-trip device.

IPC 8 full level

G04B 15/06 (2006.01); **G04B 17/26** (2006.01); **G04B 43/00** (2006.01)

CPC (source: EP US)

G04B 15/06 (2013.01 - EP US); **G04B 15/14** (2013.01 - US); **G04B 17/26** (2013.01 - EP US); **G04B 43/002** (2013.01 - EP US)

Cited by

EP2730980A1; KR101505325B1; RU2629546C2; EP2690506A1; US9016934B2; WO2014072317A2; US9310771B2; US9317015B2; US9778620B2

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 2450756 A1 20120509; EP 2450756 B1 20150107; CN 102467072 A 20120523; CN 102467072 B 20130904; HK 1171271 A1 20130322; JP 2012098289 A 20120524; JP 5351238 B2 20131127; RU 2011144809 A 20130510; RU 2570493 C2 20151210; TW 201234146 A 20120816; TW I534567 B 20160521; US 2012113763 A1 20120510; US 8602637 B2 20131210

DOCDB simple family (application)

EP 10189998 A 20101104; CN 201110345370 A 20111104; HK 12111952 A 20121122; JP 2011242018 A 20111104; RU 2011144809 A 20111103; TW 100136075 A 20111005; US 201113271734 A 20111012