

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 A1 20120509 (FR)

Application
EP 10189998 A 20101104

Priority
EP 10189998 A 20101104

Abstract (en)
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.

Abstract (fr)
Dispositif anti-galop (1) pour mécanisme d'échappement (10) agencé pour coopérer avec un balancier (2) pivotant autour d'un premier axe (D1). Il comporte, mobile en pivotement autour d'un deuxième axe (D2) parallèle audit premier axe (D1) et fixe par rapport à une platine, un mobile pivotant (5) comportant un moyen de guidage (7) agencé pour coopérer avec un moyen de guidage complémentaire (9) que comporte un plateau (3) solidaire en pivotement avec ledit balancier (2). Ledit moyen de guidage complémentaire (9), comporte une came (90) pour rapprocher ledit mobile pivotant (5) dudit premier axe (D1) quand ledit balancier pivote dans un premier sens (B1), et pour l'en éloigner quand il pivote dans un deuxième sens (B2) opposé audit premier sens (B1), ledit moyen de guidage (7) comportant un doigt fixe agencé pour coopérer avec ladite came.

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)

Citation (applicant)
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• EP 1708046 A1 20061004 - MONTRES BREGUET SA [CH]
• EP 1522001 A2 20050413 - DETRA SA [CH], et al
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• EP 1645918 A1 20060412 - MONTRES BREGUET SA [CH]
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Citation (search report)
[AD] EP 1801668 A1 20070627 - MONTRES BREGUET SA [CH]

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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