

Title (en)

Watch movement with constant-force device

Title (de)

Uhrwerk mit konstantkraftvorrichtung

Title (fr)

Mouvement de montre comportant un dispositif à force constante

Publication

EP 1772783 A1 20070411 (FR)

Application

EP 05022045 A 20051010

Priority

EP 05022045 A 20051010

Abstract (en)

The watch has a movement (1) with a constant force device (14) comprising a mobile, a third wheel (20), a spiral spring (22) rotatively connecting the mobile to the wheel and a stop gear-train (30). The wheel (20) is integrated to a star (26) which frees the gear-train only once per minute so as to carry out a display at dead minute in order that a minute hand (7) effectuates a jump at each minute. The star acts as a locking unit for the gear-train that is driven by a third wheel (13).

IPC 8 full level

G04B 15/10 (2006.01); **G04B 17/28** (2006.01)

CPC (source: EP US)

G04B 1/225 (2013.01 - EP US); **G04B 15/10** (2013.01 - EP US); **G04B 17/285** (2013.01 - EP US)

Citation (applicant)

- CH 47297 A 19100616 - PELLATON SCHILD A [CH]
- CH 98828 A 19230501 - PELLATON SCHILD A [CH]
- CH 120028 A 19270816 - BARBEZAT BOLE SOCIETE ANONYME [CH]
- EP 1319997 A1 20030618 - RICHEMONT INT SA [CH]
- EP 1528443 A1 20050504 - JOURNE FRANCOIS-PAUL [CH]

Citation (search report)

[XA] DE 818024 C 19511022 - IBM DEUTSCHLAND

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EP2397920A1; EP2397921A1; WO2011157797A1; WO2011157591A1; EP3339974A1; EP2034374A3; EP3032348A1; CN104423241A; CN102269967A; EP3032349A1; US8550701B2; WO2009059441A1; US8038340B2; EP2034374A2; US9429914B2; US9052692B2; US9058020B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 05022045 A 20051010; AT 05022045 T 20051010; CN 200610149536 A 20061009; DE 602005021883 T 20051010; JP 2006276132 A 20061010; SG 2006067300 A 20060927; US 54826106 A 20061010