Title (en)

TIMEPIECE REGULATOR PROVIDED WITH A PRECISION INDEX-ASSEMBLY

Title (de)

UHRREGULIERUNGSORGAN MIT EINER PRÄZISIONSRÜCKERVORRICHTUNG

Title (fr)

ORGANE REGLANT D'HORLOGERIE MUNI D'UN SYSTEME DE RAQUETTERIE DE PRECISION

Publication

EP 4286961 A1 20231206 (FR)

Application

EP 22215645 A 20221221

Priority

EP 22177059 A 20220602

Abstract (en)

[origin: CN220040974U] The utility model relates to a speed regulating mechanism (1) used for a clock movement, the speed regulating mechanism comprises an inertia mass body such as an annular balance wheel (23), a hairspring (25) and a fast and slow pointer assembly system (20) used for adjusting the travel time difference of the hairspring, and the hairspring comprises a coiled strip (2) and an adjusting device used for adjusting the rigidity of the hairspring. The adjusting device is provided with a flexible elastic element (5) arranged in series with the coiled strip, the fast and slow needle assembly system comprises a stud holder (31) comprising a first stud (34) and a second stud (35), characterized in that the flexible elastic element (5) is arranged between the first stud and the second stud, and the flexible elastic element (5) is arranged between the first stud (34) and the second stud (35). The first stud is movable relative to the second stud, the movement of the first stud changing the stiffness of the hairspring. The utility model also relates to a clock movement comprising the speed regulating mechanism, and a clock comprising the clock movement.

Abstract (fr)

L'invention se rapporte à un organe réglant (1) pour mouvement d'horlogerie comprenant une masse inertielle, par exemple un balancier (23), un ressort-spiral (25), et un système de raquetterie (20, 60) pour ajuster la marche du ressort-spiral (25), le ressort-spiral (25) comprenant un ruban enroulé (2) et des moyens d'ajustement de la raideur du ressort-spiral dotés d'un élément élastique (5) agencé en série du ruban enroulé (2). La raquetterie comporte un dessin et des repères configurés pour ajuster la marche de l'organe réglant avec une résolution inférieure ou égale à 1 seconde par jour.

IPC 8 full level

G04B 17/32 (2006.01); **G04B 18/02** (2006.01); **G04B 18/06** (2006.01)

CPC (source: EP KR US)

G04B 17/32 (2013.01 - EP KR); **G04B 17/325** (2013.01 - EP); **G04B 18/006** (2013.01 - US); **G04B 18/023** (2013.01 - EP); **G04B 18/06** (2013.01 - EP US)

Citation (applicant)

- WO 2016192957 A1 20161208 - ETA SA MFT HORLOGÈRE SUISSE [CH]
- EP 2876504 A1 20150527 - ETA SA MANUFACTURE HORLOGÈRE SUISSE [CH]
- EP 21202213 A 20211012

Citation (search report)

- [XAI] CH 704687 B1 20151130 - LVMH SWISS MFT SA [CH]
- [A] US 2014286143 A1 20140925 - STRANCZL MARC [CH], et al
- [A] US 10761484 B2 20200901 - CHRISTAN JULIEN [CH], et al
- [A] EP 2437126 A1 20120404 - ROLEX SA [CH]
- [ADP] EP 4009115 A1 20220608 - OMEGA 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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4286960 A1 20231206; CN 117170207 A 20231205; CN 220040974 U 20231117; EP 4286961 A1 20231206; JP 2023178243 A 20231214; KR 20230167735 A 20231211; US 2023393528 A1 20231207

DOCDB simple family (application)

EP 22177059 A 20220602; CN 202310606118 A 20230526; CN 202321303671 U 20230526; EP 22215645 A 20221221; JP 2023088502 A 20230530; KR 20230070360 A 20230531; US 202318315670 A 20230511