

Title (en)

Clockwork-movement with two opposite analog displays

Title (de)

Uhrwerk mit zwei entgegengesetzten Analoganzeigen

Title (fr)

Mouvement d'horlogerie comportant deux affichages analogiques opposés

Publication

EP 0608535 B1 19970416 (FR)

Application

EP 93120087 A 19931213

Priority

CH 26593 A 19930129

Abstract (en)

[origin: EP0608535A1] The movement, of conventional type with barrel (10) and hairspring balance, includes two time displays with hands, one of the displays having its hands (3m, 3h, 3s) arranged opposite one of the main faces (1) of the movement and driven round in a known manner by a gear train comprising a toothed centre wheel (12) fixed on an arbor (13) together with a pinion (11) meshing with the barrel. Opposite the other main face (2) is another time display whose hands (5m, 5h) are driven by another gear train (35, 36, 37, 38, 39, 40, 41), a toothed wheel (35) of which is fixed on the arbor (13) of the centre wheel (12). This arrangement makes it possible to minimise the height of the other gear train, and to guarantee the same small shake to the hands of both displays. The spring of the barrel (10) is tightened with an automatic winding device comprising an oscillating mass (7) arranged opposite the other main face (2) of the movement. A time-setting stem (6) which can occupy a neutral axial position and two pulled-out positions, makes it possible, in cooperation with a transmission mechanism (47-56), to correct the indications of one of the displays in one pulled-out position, and the indications of the other display in the other pulled-out position. <IMAGE>

IPC 1-7

G04B 19/02; **G04B 19/23**; **G04B 5/18**; **G04B 27/04**

IPC 8 full level

G04B 5/18 (2006.01); **G04B 19/00** (2006.01); **G04B 19/02** (2006.01); **G04B 19/23** (2006.01); **G04B 27/04** (2006.01); **G09D 1/00** (2006.01)

CPC (source: EP US)

G04B 5/18 (2013.01 - EP US); **G04B 19/025** (2013.01 - EP US); **G04B 19/235** (2013.01 - EP US); **G04B 27/04** (2013.01 - EP US)

Cited by

WO2021037497A1; US6010241A; CH703964A1; CH716543A1; WO0231602A1; US8147128B2; WO9739386A1; WO2009056498A1

Designated contracting state (EPC)

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EP 0608535 A1 19940803; **EP 0608535 B1 19970416**; CH 684620 B5 19950515; CH 684620G A3 19941115; DE 69309884 D1 19970522; DE 69309884 T2 19971106; JP 3328661 B2 20020930; JP H06273541 A 19940930; US 5377171 A 19941227

DOCDB simple family (application)

EP 93120087 A 19931213; CH 26593 A 19930129; DE 69309884 T 19931213; JP 890494 A 19940128; US 18844594 A 19940126