

Title (en)
TIMEPIECE MECHANISM WITH BALANCE WHEEL INERTIA ADJUSTMENT

Title (de)
UHRENMECHANISMUS ZUM EINSTELLEN DER UNRUHTRÄGHEIT

Title (fr)
MÉCANISME D'HORLOGERIE À RÉGLAGE D'INERTIE DE BALANCIER

Publication
EP 3252545 A1 20171206 (FR)

Application
EP 16172841 A 20160603

Priority
EP 16172841 A 20160603

Abstract (en)
[origin: US2017351219A1] Watch comprising a movement, with a timepiece balance wheel comprising a ring distinct from the balance rim, carried by a flange with respect to which this ring is movable in rotation to modify the position of inertia blocks elastically carried by the flange, each able to be indexed in different stable angular positions corresponding to a different inertia of the timepiece balance wheel, the movement further including an operating member movable between coupled and uncoupled positions which includes a stop means for immobilising the rim in a coupled position, and a control means for rotating the ring to modify the position of the inertia blocks in the coupled position, the watch including a crown controlling the control means, a rotating coupling ring controlling the coupling/uncoupling of the operating member through contactless interaction with an external adjustment tool.

Abstract (fr)
Balancier (10) comportant un anneau (2) distinct de sa serge (12), porté par un flasque (1) par rapport auquel toute rotation de cet anneau (2) sous l'action d'un couple externe modifie la position de masselottes (4) portées élastiquement par le flasque (1), chacune indexable parmi différentes positions angulaires stables correspondant à des inerties différentes du balancier (10). Mouvement (300) comportant ce balancier (10), un organe de manoeuvre (20) mobile entre des positions embrayée et débrayée qui comporte un moyen d'arrêt (160) pour immobiliser la serge (12) en position embrayée, et un moyen de commande (80) pour faire tourner l'anneau (2) pour modifier la position des masselottes (4) dans la position embrayée. Montre (1000) comportant ce mouvement (300), une couronne (110) commandant ce moyen de commande (80), une bague d'embrayage (102) tournante commandant l'embrayage/débrayage de l'organe de manoeuvre (20) sous interaction sans contact avec un outil de réglage (200) externe.

IPC 8 full level
G04B 18/00 (2006.01); **G04D 7/08** (2006.01)

CPC (source: CN EP US)
G04B 17/00 (2013.01 - US); **G04B 17/063** (2013.01 - CN US); **G04B 17/20** (2013.01 - US); **G04B 18/00** (2013.01 - US);
G04B 18/006 (2013.01 - EP US); **G04D 7/084** (2013.01 - EP US)

Citation (applicant)
• CH 709052 A2 20150630 - SEIKO INSTR INC [JP]
• CH 708675 A2 20150415 - FABOZZI GIUSEPPE [IT], et al
• CH 320818 A 19570415 - SIEGWART HANS [FR]

Citation (search report)
• [A] CH 709052 A2 20150630 - SEIKO INSTR INC [JP]
• [AD] CH 320818 A 19570415 - SIEGWART HANS [FR]
• [A] DE 928398 C 19550531 - HETTICH HUGO
• [A] CH 333583 A 19581031 - CIANA JEAN CHARLES [CH]
• [A] CH 342898 A 19591130 - ROLEX MONTRES [CH]

Cited by
EP4174584A1; WO2023072437A1; CN113031423A; EP3795855A1; EP3502786A1; EP4174586A1; CN116068872A; EP3835879A1;
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JP 2017219538 A 20171214; JP 6313882 B2 20180418; US 10222748 B2 20190305; US 2017351219 A1 20171207

DOCDB simple family (application)
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