

Title (en)

TIMEPIECE MECHANISM COMPRISING A PIVOTING MEMBER PROVIDED WITH MAGNETIC RETURN MEANS

Title (de)

UHRMECHANISMUS, DER EIN SCHWENKORGAN UMFASST, DAS MIT MAGNETISCHEN RÜCKSTELLMITTELN AUSGESTATTET IST

Title (fr)

MÉCANISME HORLOGER COMPRENANT UN ORGANE PIVOTANT MUNI DE MOYENS DE RAPPEL MAGNÉTIQUES

Publication

EP 3185080 A1 20170628 (FR)

Application

EP 15201933 A 20151222

Priority

EP 15201933 A 20151222

Abstract (en)

[origin: US2017176937A1] The timepiece mechanism comprises a rotating wheel set, a support element, a pivoting member mounted on the support element and magnetic return means for returning one portion of the pivoting member against a surface of the rotating wheel set. The return means comprise a first magnet carried by the pivoting member and a second magnet carried by the support element. The first and second magnets are arranged such that, in normal operation, the interaction of their respective magnetic fields generates a magnetic force oriented to return said pivoting member portion towards said rotating wheel surface. At least one of the first and second magnets is arranged to permit reversal of its polarity, preferably with the aid of a tool, and thereby of the direction of the magnetic force acting on the pivoting member, said magnetic force then tending to move said pivoting member portion away from said rotating wheel set surface, which makes it easy to handle the various elements of the timepiece mechanism.

Abstract (fr)

Le mécanisme horloger comprend un mobile tournant (27), un support, un organe pivotant (15a, 15b) monté sur ce support, et des moyens de rappel pour rappeler une partie (19) de l'organe pivotant contre une surface du mobile tournant. Les moyens de rappel comportent un premier aimant (21) porté par l'organe pivotant et un deuxième aimant (25) porté par le support. Les premier et deuxième aimants sont agencés de manière que, dans une première position relative, l'interaction de leurs champs magnétiques respectifs engendre une force magnétique orientée de manière à rappeler ladite partie de l'organe pivotant en direction de ladite surface du mobile tournant. Au moins un des premier et deuxième aimants est agencé pour permettre d'inverser sa polarité et ainsi le sens de la force magnétique agissant sur l'organe pivotant. Cette inversion est réalisée de préférence à l'aide d'un outil par un horloger.

IPC 8 full level

G04B 11/00 (2006.01); **G04B 5/16** (2006.01)

CPC (source: CN EP US)

G04B 5/00 (2013.01 - CN); **G04B 5/08** (2013.01 - US); **G04B 5/16** (2013.01 - EP US); **G04B 11/005** (2013.01 - EP US); **G04B 11/008** (2013.01 - EP US); **G04B 13/02** (2013.01 - EP US); **G04B 15/08** (2013.01 - US); **G04D 3/002** (2013.01 - US)

Citation (applicant)

FR 1276734 A 19611124

Citation (search report)

- [XDAI] FR 1276734 A 19611124
- [XA] DE 1039945 B 19580925 - HATOT LEON ETS [FR]
- [A] US 3058294 A 19621016 - EWALD ZEMLA
- [A] FR 1372223 A 19640911 - US TIMES CORP

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3185080 A1 20170628; **EP 3185080 B1 20191218**; CN 106909049 A 20170630; CN 106909049 B 20190618; JP 2017116529 A 20170629; JP 6326475 B2 20180516; US 2017176937 A1 20170622; US 9921546 B2 20180320

DOCDB simple family (application)

EP 15201933 A 20151222; CN 201611191011 A 20161221; JP 2016217827 A 20161108; US 201615289415 A 20161010