

Title (en)

NATURAL ESCAPEMENT FOR TIMEPIECE MOVEMENT AND TIMEPIECE MOVEMENT COMPRISING SUCH AN ESCAPEMENT

Title (de)

NATÜRLICHE HEMMUNG FÜR UHRWERK UND UHRWERK, DAS EINE SOLCHE UHRHEMMUNG UMFASST

Title (fr)

ECHAPPEMENT NATUREL POUR MOUVEMENT D'HORLOGERIE ET MOUVEMENT D'HORLOGERIE COMPRENANT UN TEL ECHAPPEMENT

Publication

EP 4053643 B1 20231129 (FR)

Application

EP 21204613 A 20211026

Priority

- EP 21160254 A 20210302
- EP 21176140 A 20210527

Abstract (en)

[origin: CN114995085A] The invention relates to a natural escapement mechanism for a timepiece movement, which performs a series of operating cycles, each operating cycle comprising a first and a second half-cycle of a balance mechanism comprising a balance, a balance plate being adjusted on the axis of the balance, the natural escapement comprises: a first escapement wheel arranged to be driven by a second mover, the first escapement wheel in turn driving a second escapement wheel arranged in the same plane as the first escapement wheel; the first and second escapement wheels form a dynamic chain behind which an anchor pallet pivotable about a pallet shaft is arranged, said pallet shaft lying outside an included angle less than 180 DEG and delimited by two straight lines, one of which passes through the axis of the balance and through the pivot axis of the first escapement wheel, and the other of which passes through the axis of the balance and through the pivot axis of the second escapement wheel. The other straight line passes through the axis of the balance wheel and through the pivot axis of the second escapement wheel. The invention also relates to a timepiece movement comprising such a natural escapement.

IPC 8 full level

G04B 15/08 (2006.01)

CPC (source: CN EP US)

G04B 15/06 (2013.01 - CN); **G04B 15/08** (2013.01 - EP); **G04B 15/12** (2013.01 - US); **G04B 15/14** (2013.01 - CN US)

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

DOCDB simple family (publication)

EP 4053643 A1 20220907; **EP 4053643 B1 20231129**; CN 114995085 A 20220902; CN 114995085 B 20240209; JP 2022134098 A 20220914; JP 7313494 B2 20230724; US 2022283542 A1 20220908

DOCDB simple family (application)

EP 21204613 A 20211026; CN 202210133780 A 20220209; JP 2022006889 A 20220120; US 202217567459 A 20220103