

Title (en)

CLOCKWORK MOVEMENT AND TIMEPIECE INCLUDING SUCH A MOVEMENT

Title (de)

UHRWERK UND UHR MIT SOLCH EINEM UHRWERK

Title (fr)

MOUVEMENT D'HORLOGERIE ET PIECE COMPRENANT UN TEL MOUVEMENT

Publication

**EP 3052993 B1 20170705 (FR)**

Application

**EP 14765905 A 20140908**

Priority

- CH 16972013 A 20131003
- EP 2014069053 W 20140908

Abstract (en)

[origin: WO2015049090A1] The present invention relates to a clockwork movement including: - a mechanical energy source (1), - a first regulating part (2) and a first escapement (4), which are connected by a first gear-train (8) to said energy source (1), the first gear-train (8), the first escapement (4) and the first regulating part (2) defining a first assembly, - a second regulating part (10) and a second escapement (12), which are connected by a second gear-train (16) to said energy source (1), the second gear-train (16), the second escapement (12) and the second regulating part (10) defining a second assembly, - at least one differential gear (18) arranged to provide a kinematic connection between the first assembly and the energy source (1), and between the second assembly and the energy source (1). According to the invention, said movement furthermore comprises: - a first spring part (44) provided between the differential gear (18) and the first escapement (4) and arranged to apply a torque to a first output of the differential gear (18), - first means for winding said first spring part (44), - a second spring part (46) provided between the differential gear (18) and the second escapement (12) and arranged to apply a torque to a second output of the differential gear (18), and - second means for winding said second spring part (10).

IPC 8 full level

**G04B 1/16** (2006.01); **G04B 1/22** (2006.01); **G04B 13/00** (2006.01); **G04B 13/02** (2006.01); **G04B 15/00** (2006.01); **G04B 15/14** (2006.01);  
**G04B 17/26** (2006.01); **G04B 17/32** (2006.01)

CPC (source: EP US)

**G04B 1/16** (2013.01 - US); **G04B 1/225** (2013.01 - US); **G04B 13/008** (2013.01 - EP US); **G04B 13/028** (2013.01 - US);  
**G04B 15/00** (2013.01 - EP US); **G04B 15/14** (2013.01 - US); **G04B 17/26** (2013.01 - EP US); **G04B 17/32** (2013.01 - 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)

**WO 2015049090 A1 20150409**; CH 708658 A1 20150415; CN 105765465 A 20160713; CN 105765465 B 20170915; EP 3052993 A1 20160810;  
EP 3052993 B1 20170705; US 2016231708 A1 20160811; US 9588492 B2 20170307

DOCDB simple family (application)

**EP 2014069053 W 20140908**; CH 16972013 A 20131003; CN 201480053091 A 20140908; EP 14765905 A 20140908;  
US 201415024182 A 20140908