

Title (en)

Drive mechanism for the hands of an electro-mechanical watch, provided with a locking device

Title (de)

Zeigerantriebsmechanismus einer elektromechanischen Uhr, der mit einer Verriegelung ausgestattet ist

Title (fr)

Mécanisme d'entraînement d'aiguilles d'une montre électro-mécanique, muni d'un dispositif de verrouillage

Publication

EP 2735923 B1 20190424 (FR)

Application

EP 13189578 A 20131021

Priority

- EP 12194079 A 20121123
- EP 13189578 A 20131021

Abstract (en)

[origin: EP2735922A1] The mechanism (1) has a set of gear wheels (3-7) connected to an electric motor (2) to move the hands forward or backward on each actuation of the electric motor. A locking device (20) includes a piezoelectric actuator (21) for locking a wheel between actuations of the electric motor in a rest mode via a bolt (22). The piezoelectric actuator releases the set of gear wheels when actuated by electrical signal at the moment of each actuation of the electric motor to move the hands forward or backward.

IPC 8 full level

G04C 3/14 (2006.01)

CPC (source: EP US)

G04C 3/14 (2013.01 - EP US); **G04C 3/12** (2013.01 - EP US)

Cited by

EP3537593A1; US11428298B2

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 2735922 A1 20140528; CN 103838133 A 20140604; CN 103838133 B 20170111; CN 203858461 U 20141001; EP 2735923 A1 20140528; EP 2735923 B1 20190424; HK 1186058 A2 20140307; HK 1198722 A1 20150529; JP 2014106231 A 20140609; JP 5824022 B2 20151125; US 2014146645 A1 20140529; US 9188960 B2 20151117

DOCDB simple family (application)

EP 12194079 A 20121123; CN 201310591626 A 20131122; CN 201320741466 U 20131122; EP 13189578 A 20131021; HK 13113072 A 20131122; HK 14112115 A 20141202; JP 2013241637 A 20131122; US 201314082357 A 20131118