

Title (en)  
Modular clock movement with functional modules

Title (de)  
Mechanisches Uhrwerk einer modularen Uhr mit funktionellen Modulen

Title (fr)  
Mouvement mécanique d'horlogerie modulaire à modules fonctionnels

Publication  
**EP 2787399 B1 20150729 (FR)**

Application  
**EP 14170772 A 20111213**

Priority  
• EP 14170772 A 20111213  
• EP 11193174 A 20111213

Abstract (en)  
[origin: EP2605079A1] The movement has a mechanical functional module for performing a particular timepiece function, which is irreversibly pre-adjusted by irreversible securing of adjustment and assembling components comprised in the functional module after a particular horological function is adjusted and checked on a test bench. The mechanical functional module is irreversibly secured to a plate (10) comprised in the movement or comprised in another functional module of the movement, or irreversibly secured to the latter functional module comprised in the movement. The functional module is selected from a group consisting of motor module, gear train module, time-setting and winding module, regulating module, self-winding module and display module.

IPC 8 full level  
**G04B 5/00** (2006.01); **G04B 1/00** (2006.01); **G04B 13/00** (2006.01); **G04B 19/00** (2006.01); **G04B 27/00** (2006.01); **G04B 29/04** (2006.01); **G04B 33/00** (2006.01)

CPC (source: EP KR RU US)  
**G04B 1/00** (2013.01 - EP US); **G04B 5/00** (2013.01 - EP US); **G04B 13/00** (2013.01 - EP US); **G04B 15/00** (2013.01 - KR); **G04B 15/14** (2013.01 - US); **G04B 19/00** (2013.01 - EP US); **G04B 19/04** (2013.01 - KR); **G04B 19/24** (2013.01 - US); **G04B 27/00** (2013.01 - EP US); **G04B 29/00** (2013.01 - US); **G04B 29/02** (2013.01 - KR US); **G04B 29/022** (2013.01 - US); **G04B 29/04** (2013.01 - EP US); **G04B 33/00** (2013.01 - EP RU US); **G04F 7/08** (2013.01 - KR)

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 2605079 A1 20130619; EP 2605079 B1 20141001**; CN 103163769 A 20130619; CN 103163769 B 20161221; CN 104122782 A 20141029; CN 104122782 B 20180403; EP 2787399 A2 20141008; EP 2787399 A3 20150121; EP 2787399 B1 20150729; HK 1203648 A1 20151030; JP 2013125033 A 20130624; JP 2014112100 A 20140619; JP 2014112101 A 20140619; JP 5551231 B2 20140716; JP 5914543 B2 20160511; JP 5914544 B2 20160511; KR 101435724 B1 20140901; KR 20130067225 A 20130621; RU 2012153749 A 20140620; RU 2014133030 A 20160227; RU 2016133804 A 20181210; RU 2598280 C2 20160920; RU 2666156 C2 20180906; US 10241472 B2 20190326; US 2013148479 A1 20130613; US 2014328145 A1 20141106; US 9557713 B2 20170131

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**EP 11193174 A 20111213**; CN 201210540077 A 20121213; CN 201410374857 A 20121213; EP 14170772 A 20111213; HK 15104060 A 20150427; JP 2012272087 A 20121213; JP 2014026377 A 20140214; JP 2014026379 A 20140214; KR 20120142177 A 20121207; RU 2012153749 A 20121212; RU 2014133030 A 20121212; RU 2016133804 A 20121212; US 201213710737 A 20121211; US 201414333138 A 20140716