

Title (en)
Astronomical watch

Title (de)
Astronomische Armbanduhr

Title (fr)
Montre astronomique

Publication
EP 2728420 A1 20140507 (FR)

Application
EP 12191477 A 20121106

Priority
EP 12191477 A 20121106

Abstract (en)
The mechanism (1) has a gear train (2) provided for constant frequency gear driving on an output of a timepiece movement. A three-dimensional display unit (3) displays day and phase of a celestial body that is represented by a mobile component (5) i.e. sphere, which is driven by the gear train. The gear train includes a phase wheel (10) and a day wheel (20) meshed on the output of the timepiece movement. The phase wheel or the day wheel includes an uncoupling unit located between an input and an output, where uncoupling unit of the day wheel includes a jumper spring (25). An independent claim is also included for a timepiece movement.

Abstract (fr)
Mécanisme d'affichage (1) du jour et de la phase d'au moins un premier astre, comportant un rouage (2) pour une prise d'entraînement de fréquence constante sur un mouvement (100) d'horlogerie. Ledit mécanisme (1) comporte des moyens d'affichage tridimensionnel (3) du jour et de la phase dudit premier astre représenté par un premier mobile (5), qui sont entraînés par ledit rouage (2).

IPC 8 full level
G04B 19/26 (2006.01)

CPC (source: EP US)
G04B 19/262 (2013.01 - EP US); **G04B 19/268** (2013.01 - EP US)

Citation (search report)
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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 2728420 A1 20140507; EP 2728420 B1 20180103; CH 707163 A2 20140515; CN 103809422 A 20140521; CN 103809422 B 20170301; EP 2728421 A1 20140507; EP 2728421 B1 20151118; JP 2014092549 A 20140519; JP 5695164 B2 20150401; US 2014126336 A1 20140508; US 8995233 B2 20150331

DOCDB simple family (application)
EP 12191477 A 20121106; CH 22622012 A 20121106; CN 201310539594 A 20131105; EP 13185191 A 20130919; JP 2013230043 A 20131106; US 201314069523 A 20131101