

Title (en)

Timepiece capable of indicating the sunrise or sunset at any point on the globe

Title (de)

Uhr, die den Sonnenauf- und -untergang an jedem Punkt der Erde anzeigen kann

Title (fr)

Piece d'horlogerie pouvant indiquer le lever ou le coucher du soleil en tout point du globe

Publication

EP 3007012 B1 20170816 (FR)

Application

EP 14187982 A 20141007

Priority

EP 14187982 A 20141007

Abstract (en)

[origin: US2016098012A1] The timepiece comprises means for indicating the sunrise and sunset taking account of seasonal variations. These means comprise a sphere reproducing the terrestrial globe, a shell arranged concentrically to the sphere and arranged to demarcate one portion of the terrestrial globe where it is night from another portion where it is day by indicating the position of the Earth's terminator. The shell can pivot about the globe on two axes perpendicular to each other. The shell is driven by the movement so as to rotate at a rate of one revolution per 24 hours about the polar axis. A disconnecting mechanism is controlled by an annual cam which has a profile representative of the tilt of the Sun with respect to the equatorial plane. The disconnecting mechanism controls the tilt of the shell about the axis by means of a drive shaft concentric to the polar axis.

IPC 8 full level

G04B 19/22 (2006.01); **G04B 19/26** (2006.01)

CPC (source: EP US)

G04B 19/226 (2013.01 - EP US); **G04B 19/26** (2013.01 - EP US); **G04B 19/262** (2013.01 - US)

Cited by

EP3339971A1; EP3339972A1; US10775745B2

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 3007012 A1 20160413; **EP 3007012 B1 20170816**; CN 105487369 A 20160413; CN 105487369 B 20180126; HK 1219544 A1 20170407; JP 2016075685 A 20160512; JP 6067814 B2 20170125; RU 2015142481 A 20170410; US 2016098012 A1 20160407; US 9335739 B2 20160510

DOCDB simple family (application)

EP 14187982 A 20141007; CN 201510640276 A 20150930; HK 16107512 A 20160628; JP 2015198318 A 20151006; RU 2015142481 A 20151006; US 201514862382 A 20150923