

Title (en)
TIMEPIECE WITH AN ILLUMINATION SYSTEM COMPRISING AN ULTRAVIOLET LIGHT EMITTING DIODE

Title (de)
UHR, DIE MIT EINER BELEUCHTUNGSVORRICHTUNG AUSGERÜSTET IST, WELCHE EINE ULTRAVIOLETT-ELEKTROLUMINESZENZDIODE UMFASST

Title (fr)
PIÈCE D'HORLOGERIE MUNIE D'UN DISPOSITIF D'ÉCLAIRAGE COMPRENANT UNE DIODE ÉLECTROLUMINESCENTE ULTRAVIOLETTE

Publication
EP 2084585 B1 20180502 (FR)

Application
EP 07822037 A 20071030

Priority
• EP 2007061683 W 20071030
• EP 06123449 A 20061103
• EP 07822037 A 20071030

Abstract (en)
[origin: EP1918793A1] The timepiece has a lighting device (4) with a UV/infrared LED to light a zone (9) integrating fluorescent and phosphorescent pigments of a needle (7), that is viewed via a convex glass (3). A light from the LED is directed on a periphery of the glass forming a wave guide. Scattering units formed of a reflective surface (15), scattering and reflective layers (12, 13), a nanopowder and microstructures and nanostructures, to scatter the light from the glass towards the timepiece interior and are arranged in the form of ring, on a light path to view the zone and provided with a nanosize covering. The nanosize covering of the scattering layers is made of metallic oxide.

IPC 8 full level
G04B 19/32 (2006.01); **G04G 9/00** (2006.01)

CPC (source: EP KR US)
G04B 19/32 (2013.01 - EP US); **G04G 9/0041** (2013.01 - EP US); **G04G 9/04** (2013.01 - KR)

Cited by
DE102019103417B3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1918793 A1 20080507; CN 101663625 A 20100303; EP 2084585 A2 20090805; EP 2084585 B1 20180502; JP 2010518355 A 20100527; KR 20090077016 A 20090713; TW 200839670 A 20081001; TW I459335 B 20141101; US 2010202255 A1 20100812; US 8169858 B2 20120501; WO 2008052989 A2 20080508; WO 2008052989 A3 20080912

DOCDB simple family (application)
EP 06123449 A 20061103; CN 200780040558 A 20071030; EP 07822037 A 20071030; EP 2007061683 W 20071030; JP 2009535675 A 20071030; KR 20097011356 A 20071030; TW 96140602 A 20071029; US 51346307 A 20071030