

Title (en)

MECHANISM FOR ACTUATING A FLEXIBLE DISPLAY NEEDLE MOVED BY A TIMEPIECE MOVEMENT

Title (de)

MECHANISMUS ZUR BETÄTIGUNG EINES FLEXIBLEN ANZEIGEZEIGERS, DER DURCH EIN UHRWERK BEWEGT WIRD

Title (fr)

MECANISME D'ACTIONNEMENT D'AIGUILLE D'AFFICHAGE FLEXIBLE MU PAR UN MOUVEMENT D'HORLOGERIE

Publication

EP 4300213 A1 20240103 (FR)

Application

EP 22181285 A 20220627

Priority

EP 22181285 A 20220627

Abstract (en)

[origin: US2023418227A1] An actuation mechanism (60) of a flexible hand (44) to which a clockwork movement applies a first angular rotation (θ_1), the flexible hand (44) including a first drive barrel (46) and a second drive barrel (50) connected to a tip (54) of the flexible hand (44) by a first and a second flexible arm (48), the first drive barrel (46) being provided with a first toothing (56) and the second drive barrel (50) being provided with a second toothing (58), the first and second drive barrels (46, 50) being mounted so the first toothing (56) of the first drive barrel (46) engages with the second toothing (58) of the second drive barrel (50) in the stressed position of the flexible hand (44), the angular rotation (θ_1) applied by the clockwork movement to the actuation mechanism (60) being modulated by an angle of rotation (φ) by the actuation mechanism (60).

IPC 8 full level

G04B 19/04 (2006.01); **G04B 13/00** (2006.01); **G04B 45/00** (2006.01)

CPC (source: CN EP US)

G04B 13/00 (2013.01 - CN); **G04B 13/001** (2013.01 - EP); **G04B 19/02** (2013.01 - US); **G04B 19/042** (2013.01 - CN US); **G04B 19/044** (2013.01 - CN); **G04B 19/048** (2013.01 - CN EP); **G04B 45/0061** (2013.01 - CN EP)

Citation (applicant)

- EP 2863274 A1 20150422 - OMEGA SA [CH]
- EP 3764170 A1 20210113 - MONTRES BREGUET SA [CH]

Citation (search report)

- [AD] EP 3764170 A1 20210113 - MONTRES BREGUET SA [CH]
- [A] EP 1710637 A2 20061011 - CRABBE J-PAUL [FR]
- [A] STRANCZL MARC ET AL, JE 2021, 28 September 2021 (2021-09-28), pages 9 - 15, XP055849925

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4300213 A1 20240103; CN 117311122 A 20231229; JP 2024003757 A 20240115; US 2023418227 A1 20231228

DOCDB simple family (application)

EP 22181285 A 20220627; CN 202310521361 A 20230510; JP 2023079113 A 20230512; US 202318302304 A 20230418