

Title (en)

ELECTRONIC MONITORING OF FULLY MECHANICAL CLOCKS FOR PREDICTIVE MAINTENANCE PURPOSES

Title (de)

ELEKTRONISCHE ÜBERWACHUNG VON REIN MECHANISCHEN UHREN ZUM ZWECK DER PRÄDIKTIVEN WARTUNG

Title (fr)

SURVEILLANCE ÉLECTRONIQUE D'HORLOGES ENTIÈREMENT MÉCANIQUES À DES FINS DE MAINTENANCE PRÉDICTIVE

Publication

**EP 4363934 A1 20240508 (DE)**

Application

**EP 22728804 A 20220511**

Priority

- DE 102021116655 A 20210628
- EP 2022062739 W 20220511

Abstract (en)

[origin: WO2023274612A1] A description is given of a mechanically operated clock (2) having a housing, a mechanical movement (2a), arranged in the housing, for driving the clock (2), at least one sensor (4), arranged in the housing, for monitoring the operation of the clock (2), a microchip (3), arranged in the housing, for collecting data recorded by the sensor (4), a communication interface (13) for transmitting the data collected by the microchip to an external device, in particular a smartphone (30), and energy recovery means (8) for recovering energy with which the sensor (4), the microchip (3) and the communication interface (13) are operated.

IPC 8 full level

**G04B 99/00** (2006.01); **G04C 10/00** (2006.01); **G04D 7/00** (2006.01); **G04G 21/04** (2013.01)

CPC (source: EP)

**G04B 99/00** (2013.01); **G04C 10/00** (2013.01); **G04D 7/006** (2013.01); **G04G 21/04** (2013.01)

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)

**DE 102021116655 A1 20221229**; EP 4363934 A1 20240508; WO 2023274612 A1 20230105

DOCDB simple family (application)

**DE 102021116655 A 20210628**; EP 2022062739 W 20220511; EP 22728804 A 20220511