

Title (en)

TIMEPIECE COMPRISING A MECHANICAL OSCILLATOR ASSOCIATED WITH A CONTROL SYSTEM

Title (de)

UHRWERKSANORDNUNG, DIE EINEN MECHANISCHEN OSZILLATOR UMFASST, DER MIT EINER EINSTELLVORRICHTUNG VERBUNDEN IST

Title (fr)

PIECE D'HORLOGERIE COMPRENANT UN OSCILLATEUR MECANIQUE ASSOCIE A UN SYSTEME DE REGULATION

Publication

EP 3502797 B1 20200708 (FR)

Application

EP 17209121 A 20171220

Priority

EP 17209121 A 20171220

Abstract (en)

[origin: US2019187623A1] A timepiece includes a mechanical movement with a mechanical oscillator and an electronic device for regulating the medium frequency of this mechanical oscillator. It includes an electromagnetic transducer and an electric converter which includes a primary storage unit for powering the regulation circuit. The electromagnetic transducer is arranged to supply a voltage signal exhibiting first voltage lobes in first half-alternations and second voltage lobes in second half-alternations of the oscillations of the mechanical oscillator. The regulating device includes a load pump arranged to transfer electric loads from the primary storage unit into a secondary storage unit, these electric loads being extracted selectively in different time zones according to a time drift detected in the functioning of the mechanical oscillator relative to an auxiliary oscillator, particularly quartz-based.

IPC 8 full level

G04C 3/04 (2006.01); **G04C 10/00** (2006.01)

CPC (source: CN EP US)

G04B 17/06 (2013.01 - US); **G04C 3/04** (2013.01 - CN EP US); **G04C 3/068** (2013.01 - US); **G04C 10/00** (2013.01 - CN EP US); **G04G 19/06** (2013.01 - US)

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