

Title (en)

ELECTRONIC CLOCK WITH TWO MOTORS AND PROVIDED WITH A PERPETUAL CALENDER

Publication

**EP 0231451 B1 19900124 (FR)**

Application

**EP 86116038 A 19861120**

Priority

CH 543785 A 19851218

Abstract (en)

[origin: US4695168A] A watch comprises a first motor (2) for driving a time display (4), a second motor (23) for driving means (20) for numerically indicating the day of the month, a perpetual-calendar circuit (30), a first transmission circuit (40), a non-volatile memory (41), a second transmission circuit (42), and a detection circuit (43) for generating a signal (S43) when an energy supply cell is being inserted to energize the circuits. The calendar circuit includes counters (31, 32, 33) generating a calendar signal (S30) representative of the date. This signal is periodically transferred to the non-volatile memory by the first transmission circuit in response to periodic signals (Sx, Sm, Sa). The date at which the watch stops at the end of the cell's life remains memorized in the non-volatile memory and in the day of the month indicating means. When a new cell is inserted, the signal representative of the date at which the watch stopped is transferred from the non-volatile memory to the calendar circuit by the second transmission circuit in response to the signal (S43) generated by the detection circuit.

IPC 1-7

**G04C 3/14**; **G04C 17/00**

IPC 8 full level

**G04C 3/00** (2006.01); **G04C 3/14** (2006.01); **G04C 10/04** (2006.01); **G04C 17/00** (2006.01); **G04G 19/10** (2006.01)

CPC (source: EP US)

**G04C 3/146** (2013.01 - EP US); **G04C 17/0066** (2013.01 - EP US); **G04G 19/10** (2013.01 - EP US)

Cited by

AU723044B3; EP0617346A1; US5473580A; CH686106GA3; EP0936513A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0231451 A1 19870812**; **EP 0231451 B1 19900124**; CH 661833G A3 19870831; DE 3668507 D1 19900301; HK 32393 A 19930408; JP H07119811 B2 19951220; JP S62147392 A 19870701; SG 126792 G 19930312; US 4695168 A 19870922

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