Title (en)

ELECTRONIC WATCH WITH STEPPING MOTOR AND ALARM CIRCUIT

Publication

EP 0027288 B1 19851218 (FR)

Application

EP 80200937 A 19801003

Priority

- CH 927579 A 19791015
- CH 930779 A 19791016

Abstract (en)

[origin: EP0027288A1] 1. Electronic watch comprising time-indicating hands (6, 7), a stepping motor (M) actuating a gear-train (5) which drives said hands, a manual control mechanism (1, 14; 17) capable of inducing a displacement of said hands for causing them to indicate a desired alarm time and comprising a rotatingly movable setting stem (1; 17) having several axial positions actuating contacts (STOP, 9-10, 9-11, 9-12; 19-20, 19-21) connected to the control circuits of said motor, alarm means and a pushbutton (14) co-operating with a contact (15), said alarm means (13) being triggerable at the moment when the hands, in normal operation, reach said alarm time, and said control circuits comprise : - counting means (CR, L) capable of counting a number of rotation of a moving part (8) connected to the hands, this number of rotations constituting information representing the angular displacement of the hands induced in response to the actuating of the control mechanism, - storage means (14, M2) associated with said counting means (CR, L) and capable of recording said number of rotations, - a coincidence circuit (REV) connected between said storage means and said counting means for triggering the alarm means (13) when the number of rotations counted since the actuating of the storage means corresponds to the information recorded by these means, and - means (L, DRIV) for automatically returning the hands to a position indicating the correct time after an induced displacement, characterized in that said stem (1, 17) actuates the contacts (STOP 9-10, 9-11, 9-12; 19-20, 19-21) connected to said control circuits in such a way that in one of said axial positions corresponding to the programming of an alarm time, the rotation of said stem actuates said counting means (CR, L), the count effected by these means then corresponding to the extent of said induced angular displacement, and in that the pushbutton (14), in the programming position of said stem, controls a transfer of the state of the counting means (CR, L) to a memory (M2) via said contact (15).

IPC 1-7

G04C 3/14; G04C 21/16; G04C 9/00

IPC 8 full level

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