

Title (en)

STEPPER MOTOR CONTROL CIRCUIT, ESPECIALLY FOR WATCHES

Publication

EP 0327989 B1 19910828 (FR)

Application

EP 89101879 A 19890203

Priority

CH 51388 A 19880212

Abstract (en)

[origin: EP0327989A1] The control circuit (19) receives a supply voltage (Vb) provided by a battery (7), and in response to a time-base signal (S3) it sends driving voltage pulses (Vm) to a stepping motor (5), the rotor of which causes the time (6) to be displayed. The driving pulses are also applied to the control circuit (19) which comprises an adjusting circuit (20), the function of which is to compare the voltage (Vm) of these pulses with a reference voltage (Vr) and to produce, in each pulse, interruptions, the duration and number of which are determined so as to keep the mean voltage of each pulse constant in the presence of a variation of the supply voltage. Under these conditions, the motor (5) is controlled by driving pulses of constant energy, whatever the voltage (Vb) of the battery (7). <IMAGE>

IPC 1-7

G04C 3/14

IPC 8 full level

G04C 3/14 (2006.01); **H02P 8/02** (2006.01); **H02P 8/12** (2006.01)

CPC (source: EP)

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Cited by

EP0704774A4

Designated contracting state (EPC)

DE FR GB

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EP 0327989 A1 19890816; EP 0327989 B1 19910828; CH 672043 B5 19900430; CH 672043G A3 19891031; DE 68900226 D1 19911002; HK 142594 A 19941223; JP 2905856 B2 19990614; JP H01243891 A 19890928

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