

Title (en)

PROCESS AND DEVICE FOR CONTROLLING A STEPPING MOTOR IN A CLOCK MECHANISM

Publication

EP 0077293 B1 19870415 (FR)

Application

EP 82810397 A 19820923

Priority

CH 634181 A 19811002

Abstract (en)

[origin: US4467256A] The present invention concerns a method and a device for controlling a stepping motor of a timepiece, which permit the power of each drive pulse to be adapted to the value of the electromotive force (V) and/or the internal resistance (R*) of the power supply source (10). In accordance with the invention, at a given moment, a value of a chopping rate (Ha) is determined in dependence on the value of the electromotive force V and/or the internal resistance R* of the power supply source (10), said value being stored, and the chopping rate of each control pulse being adjusted to the stored value. The control device comprises means (13) for supplying a chopping signal (M) to a drive circuit (12) of the motor (11). The chopping rate is determined by information contained in a memory (14). The stored information is periodically corrected in dependence on the value of the electromotive force (V) and/or the internal resistance (R*) of the power supply source (10).

IPC 1-7

G04C 3/14

IPC 8 full level

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

CPC (source: EP US)

G04C 3/143 (2013.01 - EP US)

Citation (examination)

- IBM TECHNICAL DISCLOSURE BULLETIN, vol.23, no.4, septembre 1980, New York (US) C.H. CRIDER et al.: "Current tracking chopper motor driver", pages 1303-1304
- "Theory and Application of Step Motors" B.C. Kuo, West Publishing CO, 1974, p. 173-180

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EP0241202A3; EP0171635A1; CH656776GA3; EP0345224A1; CH672572GA3; EP0140089A1; CH653206GA3

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

EP 0077293 A1 19830420; EP 0077293 B1 19870415; CH 646576G A3 19841214; DE 3276087 D1 19870521; JP H0221757 B2 19900516; JP S58144770 A 19830829; US 4467256 A 19840821

DOCDB simple family (application)

EP 82810397 A 19820923; CH 634181 A 19811002; DE 3276087 T 19820923; JP 17110382 A 19821001; US 42631682 A 19820929