Title (en)

METHOD OF MEASURING THE VOLTAGE INDUCED IN THE COIL OF A STEPPING MOTOR BY THE ROTATION OF ITS ROTOR

Publication

EP 0137093 A3 19850529 (FR)

Application

EP 84101561 A 19820121

Priority

CH 182681 A 19810318

Abstract (en)

[origin: US4446413A] The method comprises measuring the voltage induced during the driving pulse in the coil by rotation of the rotor, and interrupting the drive pulse in dependence on the measurement made. The device for carrying out this method comprises a circuit for measuring the induced voltage, a circuit for comparison with a reference value and a circuit for calculating the duration of the drive pulse.

IPC 1-7

G04C 3/14

IPC 8 full level

G01R 19/155 (2006.01); **G04C 3/14** (2006.01); **H02P 8/02** (2006.01); **H02P 8/12** (2006.01)

CPC (source: EP US)

G04C 3/143 (2013.01 - EP US)

Citation (search report)

- [A] CH 616819G A3 19800430
- [A] US 4158287 A 19790619 - NAKAJIMA FUMIO, et al
- [A] FR 2220919 A1 19741004 - SEIKO INSTR & ELECTRONICS [JP]
- [A] US 4114364 A 19780919 - TAKAHASHI NORIO
- [AP] DE 2944872 B1 19810326 - JUNGHANS GMBH GEB
- [A] PATENTS ABSTRACTS OF JAPAN, vol. 2, no. 106, 31 août 1978, page 5635E78; & JP - A - 53 072 112
- [A] ACTES DU 10e CONGRES INTERNATIONAL DE CHRONOMETRIE, vol. 3, 10-14 septembre 1979, pages 67-72, Genève, CH; M. UEDA et al.: "Adaptive controlled drive system of stepping motor for analog quartz watch"
- [A] ACTES DU 10e CONGRES INTERNATIONAL DE CHRONOMETRIE, vol. 3, 10-14 septembre 1979, pages 73-80, Genève, CH; A. PITTET et al.: "Amélioration de la fiabilité et de la consommation d'énergie de moteur pas à pas par une technique d'auto-controle"

Cited by

EP0305876A3; EP0484770A1; FR2668866A1; US5280226A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0137093 A2 19850417; **EP 0137093 A3 19850529**; **EP 0137093 B1 19880601**; CH 644989G A3 19840914; DE 3276268 D1 19870611; EP 0060806 A1 19820922; EP 0060806 B1 19870506; JP S57153599 A 19820922; JP S6096198 A 19850529; JP S6363000 B2 19881206; US 4446413 A 19840501; US 4568867 A 19860204

DOCDB simple family (application)

EP 84101561 A 19820121; CH 182681 A 19810318; DE 3276268 T 19820121; EP 82810024 A 19820121; JP 1499882 A 19820203; JP 3272884 A 19840224; US 34595282 A 19820204; US 58030584 A 19840215