

Title (en)

Stabilisation of an electronic circuit for regulating the mechanical movement of a timepiece

Title (de)

Stabilisation einer elektronischen Schaltung zur Regelung des mechanischen Gangwerks einer Zeitmessvorrichtung

Title (fr)

Stabilisation d'un circuit électronique de régulation du mouvement mécanique d'une pièce d'horlogerie

Publication

EP 0806710 B1 20000816 (FR)

Application

EP 97107371 A 19970505

Priority

FR 9605720 A 19960507

Abstract (en)

[origin: EP0806710A1] The movement is driven by a source of electrical energy including a magnetised rotor (3a) and an inductive winding (3b). Rotation by a coil spring (2) produces an alternating voltage (Ug) between a reference terminal (B0) and a terminal (B1) connected to a full-wave rectifier (5), which supplies the regulatory circuit (1). During each revolution a measuring pulse (IM) is generated (Trig) and compared (Cmp) with a reference signal (FR) from a fixed-frequency oscillator (Osc). When a pulse occurs in advance of the reference signal the rotor is braked, advantageously by a transistor switch (K) receiving a pulse (IF) from a delay register (Tmr).

IPC 1-7

G04C 10/00; **G04C 3/00**

IPC 8 full level

G04B 17/00 (2006.01); **G04C 3/00** (2006.01); **G04C 10/00** (2006.01); **G04C 10/04** (2006.01)

CPC (source: EP US)

G04C 3/00 (2013.01 - EP US); **G04C 10/00** (2013.01 - EP US)

Citation (examination)

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