

Title (en)

Device to control an electromagnet

Title (de)

Vorrichtung zur Ansteuerung eines Elektromagneten

Title (fr)

Appareil de commande d'un électroaimant

Publication

EP 1276120 B1 20100901 (DE)

Application

EP 02014583 A 20020702

Priority

DE 10134346 A 20010714

Abstract (en)

[origin: EP1276120A2] The control device has a switch (5), controlled by a clock source (4), connected in series with a solenoid (1) for operation of a magnetic armature (3) and closed for application of a DC voltage to the solenoid, which is temporarily interrupted upon detection of a given current through the solenoid, via a series current detector switch (7). An ohmic resistance (6) across the current detector switch determines the holding current for the armature in conjunction with the response threshold of the latter, a second ohmic resistance (9) connected in the current circuit under control of a second clock source (8), for providing a displacement current for the armature.

IPC 8 full level

H01F 7/18 (2006.01); **E05B 47/00** (2006.01)

CPC (source: EP US)

E05B 47/00 (2013.01 - EP US); **H01F 7/1844** (2013.01 - EP US); **Y10T 70/60** (2015.04 - EP US)

Cited by

EP1862624A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1276120 A2 20030115; **EP 1276120 A3 20041110**; **EP 1276120 B1 20100901**; CA 2393180 A1 20030114; CA 2393180 C 20100914; DE 10134346 A1 20030206; DE 10134346 B4 20100715; DE 50214620 D1 20101014; JP 2003124025 A 20030425; JP 3803309 B2 20060802; US 2003016102 A1 20030123; US 6798634 B2 20040928

DOCDB simple family (application)

EP 02014583 A 20020702; CA 2393180 A 20020712; DE 10134346 A 20010714; DE 50214620 T 20020702; JP 2002204473 A 20020712; US 19444902 A 20020711