

Title (en)

Control device for a magnetic coil

Title (de)

Ansteuereinrichtung für eine Magnetspule

Title (fr)

Appareil de commande pour une bobine magnétique

Publication

**EP 1403885 A3 20070502 (DE)**

Application

**EP 03020543 A 20030917**

Priority

DE 10244522 A 20020925

Abstract (en)

[origin: EP1403885A2] Control unit for a magnetic coil has a voltage source to which the coil is connected, a controlled switch for connecting source and coil, a switch on unit (12, 14) that produces a start signal for switching on the switch and a timer circuit (15) that is connected to the switch on unit to create a time delay between receipt of a start signal and its transmission to the switch. The time delay is dependent of the supply voltage amplitude. Independent claims are also included for the following:- (a) a control unit for a magnetic coil in which the controlled switch is switched when the supply voltage is a minimum and switched off when a measured current value exceeds a maximum, said maximum being dependent on the supply voltage amplitude; (b) and a method for current to a magnetic coil.

IPC 8 full level

**H01F 7/18** (2006.01)

CPC (source: EP)

**H01F 7/1811** (2013.01); **H01F 7/1844** (2013.01)

Citation (search report)

- [XY] GB 2127186 A 19840404 - BOSCH GMBH ROBERT
- [XY] US 4523251 A 19850611 - ERDMANN JUERGEN [DE], et al

Cited by

US9657946B2; US9835265B2; US10503181B2; WO2006084520A1; US9841122B2; US11073281B2; US9851103B2; US10851993B2; US9683674B2; US10215291B2; US10697815B2; US9645584B2; US10203049B2; US10422531B2; US11421875B2; US9995486B2; US10024439B2; US10697632B2; US9846440B2; US10564062B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

**EP 1403885 A2 20040331**; **EP 1403885 A3 20070502**; DE 10244522 A1 20040415; DE 10244522 B4 20050630

DOCDB simple family (application)

**EP 03020543 A 20030917**; DE 10244522 A 20020925