

Title (en)
Control device for an electromagnet

Title (de)
Einrichtung zur Steuerung eines Elektromagneten

Title (fr)
Dispositif pour la commande d'un électro-aimant

Publication
EP 0726584 B1 19980311 (DE)

Application
EP 95119898 A 19951216

Priority
CH 37495 A 19950209

Abstract (en)
[origin: EP0726584A1] The magnetically influenced switch device (5) contains a sensor coil (22) with at least one winding coupled to at least part of the electromagnet's magnetic field at least when an air gap is open. The sensor coil is switched over to a controlled semiconductor (11) connected in series with a pull-in coil (1) of the electromagnet, which also has a hold-in coil, by a voltage peak which occurs at the instant of air gap closure. The sensor coil is changed over by an electronic switching device. It takes the form of at least one winding mounted at any point around the core and/or the armature. It can be mounted near the air gap and core and/or the armature and is coupled to the stray field of the electromagnet about the air gap.

IPC 1-7
H01F 7/18

IPC 8 full level
H01F 7/18 (2006.01)

CPC (source: EP US)
H01F 7/18 (2013.01 - EP US)

Cited by
DE19741570A1; DE102006045353A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0726584 A1 19960814; EP 0726584 B1 19980311; AT E164025 T1 19980315; DE 59501605 D1 19980416; DK 0726584 T3 19980406; ES 2116669 T3 19980716; GR 3026724 T3 19980731; JP H08255711 A 19961001; US 5781396 A 19980714

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EP 95119898 A 19951216; AT 95119898 T 19951216; DE 59501605 T 19951216; DK 95119898 T 19951216; ES 95119898 T 19951216; GR 980400913 T 19980428; JP 2402396 A 19960209; US 58878796 A 19960119