

Title (en)
AC controller for electromagnetic switches

Title (de)
Wechselstromsteller für elektromagnetische Schaltgeräte

Title (fr)
Contrôleur de courant alternatif pour des commutateur électromagnétique

Publication
EP 1923986 A3 20090506 (DE)

Application
EP 07117334 A 20070927

Priority
DE 102006053797 A 20061115

Abstract (en)
[origin: EP1923986A2] The device has an alternating current (AC) power controller (220) that operates an electromagnetic drive of a switch gear, where the controller includes two anti-serially connected transistors e.g. MOSFET-transistors and a semiconductor component e.g. thyristor. A control unit e.g. microcontroller, controls the power controller with a time function (240), which is controlled during a power-on process and represents an exponential function. Counter coupling-resistors balance the transistors, where the control unit has a resistor capacitor-unit.

IPC 8 full level
H02M 5/00 (2006.01); **H01H 50/00** (2006.01)

CPC (source: EP)
H01H 47/36 (2013.01)

Citation (search report)

- [X] DE 10150752 A1 20030417 - CONTI TEMIC MICROELECTRONIC [DE]
- [A] DE 29902942 U1 19990512 - AEG SVS POWER SUPPLY SYSTEMS G [DE]
- [A] WO 9507571 A1 19950316 - SIEMENS AG [DE], et al
- [A] WO 9945553 A1 19990910 - SIEMENS AG [DE], et al
- [A] US 5982605 A 19991109 - MASSEY AULDIN J [US], et al

Cited by
EP2521154A1; US8976502B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1923986 A2 20080521; EP 1923986 A3 20090506; EP 1923986 B1 20160413; CN 101183616 A 20080521; CN 101183616 B 20110105; DE 102006053797 A1 20080529; DE 102006053797 B4 20100429; PL 1923986 T3 20160831

DOCDB simple family (application)
EP 07117334 A 20070927; CN 200710186952 A 20071115; DE 102006053797 A 20061115; PL 07117334 T 20070927