

Title (en)

ELECTRICAL SWITCHING DEVICE, RELAY AND ELECTRICAL APPARATUS COMPRISING SAME

Title (de)

ELEKTRISCHE SCHALTVORRICHTUNG, RELAIS SOWIE ELEKTRISCHES GERÄT MIT EINER SOLCHEN VORRICHTUNG

Title (fr)

DISPOSITIF DE COMMUTATION ELECTRIQUE, RELAIS ET APPAREIL ELECTRIQUE COMPORTANT UN TEL DISPOSITIF

Publication

EP 1556873 B1 20060621 (FR)

Application

EP 03778439 A 20031022

Priority

- FR 0303136 W 20031022
- FR 0213433 A 20021028

Abstract (en)

[origin: US2006145794A1] The electrical switching device comprises at least a first part comprising at least a first magnetizable element and a first contact zone associated with said first magnetizable element, and at least a second movable part comprising at least a second magnetic element and a second contact zone associated with said second magnetic element. The first or second magnetic element comprises at least one permanent magnetization part to keep the first electrical contact closed and to exert a contact pressure between the first and second contact zones when the movable part is in a first stable position. The electromagnetic relay and/or electrical apparatus comprise electrical contact inputs and control inputs connected to a switching device comprising electromagnetic control coils.

IPC 8 full level

H01H 1/54 (2006.01); **H01H 51/01** (2006.01)

CPC (source: EP US)

H01H 1/54 (2013.01 - EP US); **H01H 51/01** (2013.01 - EP US); **H01H 2001/545** (2013.01 - EP US); **H01H 2036/0086** (2013.01 - EP US)

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

DOCDB simple family (publication)

US 2006145794 A1 20060706; US 7233220 B2 20070619; AT E331290 T1 20060715; AU 2003285438 A1 20040525;
AU 2003285438 B2 20080117; CN 100341083 C 20071003; CN 1708818 A 20051214; DE 60306409 D1 20060803; DE 60306409 T2 20061207;
EP 1556873 A1 20050727; EP 1556873 B1 20060621; ES 2264017 T3 20061216; FR 2846470 A1 20040430; FR 2846470 B1 20050304;
WO 2004040607 A1 20040513

DOCDB simple family (application)

US 53296905 A 20050427; AT 03778439 T 20031022; AU 2003285438 A 20031022; CN 200380102232 A 20031022; DE 60306409 T 20031022;
EP 03778439 A 20031022; ES 03778439 T 20031022; FR 0213433 A 20021028; FR 0303136 W 20031022