

Title (en)
ELECTROMAGNETIC ACTUATOR

Title (de)
ELEKTROMAGNETISCHER ANTRIEB

Title (fr)
ACTIONNEUR ELECTROMAGNETIQUE

Publication
EP 1573766 A1 20050914 (DE)

Application
EP 03785595 A 20031218

Priority

- DE 0304205 W 20031218
- DE 10261811 A 20021219

Abstract (en)
[origin: WO2004057637A1] According to the invention, an electromagnetic actuator (1) for a switch, operating in the medium voltage range, comprising at least one magnet body (2, 3), defining an air gap, a moving body (5), arranged in the air gap (4), guided to move relative to the magnet body (2, 3), at least one permanent magnet and at least one conductor (6), through which a current may flow, whereby the conductor(s) (6) extend(s) at least partly into a magnetic field generated by the permanent magnets on a movement of the moving body (5), may be produced such as to be able to be fixed in the end positions thereof in a simple manner, whereby the moving body (5) is fixed to at least one soft-magnetic locking body (7) and the magnetic field generated by the permanent magnet(s) (3) flows through the locking body (7) in an end position of the moving body (5) in which the air gap (4) for the magnetic field is bridged by the locking body (7).

IPC 1-7
H01H 33/66

IPC 8 full level
H01F 7/06 (2006.01); **H01H 33/666** (2006.01); **H01F 7/08** (2006.01); **H01F 7/122** (2006.01); **H01F 7/14** (2006.01); **H01H 53/015** (2006.01)

CPC (source: EP US)
H01F 7/066 (2013.01 - EP US); **H01H 33/6662** (2013.01 - EP US); **H01F 7/081** (2013.01 - EP US); **H01F 7/122** (2013.01 - EP US); **H01F 7/145** (2013.01 - EP US); **H01H 53/015** (2013.01 - EP US); **H01H 2003/268** (2013.01 - EP US)

Citation (search report)
See references of WO 2004057637A1

Cited by
WO2019179983A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 2004057637 A1 20040708; CN 100334670 C 20070829; CN 1729548 A 20060201; DE 10261811 A1 20040715; DE 10261811 B4 20050120; DE 50311231 D1 20090409; EP 1573766 A1 20050914; EP 1573766 B1 20090225; JP 2006511047 A 20060330; RU 2005122646 A 20060210; RU 2322724 C2 20080420; US 2006049901 A1 20060309

DOCDB simple family (application)
DE 0304205 W 20031218; CN 200380106914 A 20031218; DE 10261811 A 20021219; DE 50311231 T 20031218; EP 03785595 A 20031218; JP 2004561056 A 20031218; RU 2005122646 A 20031218; US 53957605 A 20050617