

Title (en)
Electromagnetic actuator for medium voltage circuit breaker

Title (de)
Elektromagnetischer Aktuator, insbesondere für einen Mittelspannungsschalter

Title (fr)
Actionneur électromagnétique pour disjoncteur à moyenne tension

Publication
EP 1843375 B1 20110706 (DE)

Application
EP 06007167 A 20060405

Priority
EP 06007167 A 20060405

Abstract (en)
[origin: EP1843375A1] The actuator has an electromagnet (1) exhibiting a magnet core (2) with a rectangular profile, and a round upper yoke (3) corresponding to the electromagnet. The actuator is placed directly under a vacuum switching chamber of a middle voltage switch without leverage and deviation and acts directly on a contact rod. A permanent magnet is attached to the magnet core, whose magnetizing direction lies parallel to a plane of an air gap. A damping pad is arranged between a lower yoke and the bottom side of the magnet core. An independent claim is also included for a method for manufacturing an electromagnetic actuator.

IPC 8 full level
H01H 33/66 (2006.01); **H01F 7/08** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP US)
H01F 7/1646 (2013.01 - EP US); **H01H 33/666** (2013.01 - EP US); **H01H 51/2209** (2013.01 - EP US); **H01F 7/081** (2013.01 - EP US); **H01F 7/088** (2013.01 - EP US); **H01F 7/122** (2013.01 - EP US); **H01H 33/6662** (2013.01 - EP US); **H01H 50/18** (2013.01 - EP US); **H01H 50/641** (2013.01 - EP US)

Cited by
EP2434519A1; EP2426690A1; WO2012041483A1; WO2012028328A1; AU2020277188B2; EP2312606A1; EP3226263A1; DE102008056581A1; FR2989511A1; EP2388793A1; CN103201815A; EP2312605A1; CN102687225A; EP3182436A1; WO2013156717A1; WO2011045062A1; EP2874169A1; US9478342B2; US9336960B2; US10734148B2; EP2704173A1; EP2434503A1; WO2012041484A1; US8674795B2; WO2011045061A1; US8692636B2; US9343258B2; EP3032560B1; EP3032560B2

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1843375 A1 20071010; EP 1843375 B1 20110706; AT E515785 T1 20110715; AU 2007233934 A1 20071011; AU 2007233934 B2 20110203; BR PI0710042 A2 20110802; BR PI0710042 B1 20180703; CN 101410923 A 20090415; CN 101410923 B 20120530; EP 2005456 A1 20081224; ES 2369372 T3 20111130; HK 1131254 A1 20100115; MX 2008012639 A 20081127; PL 1843375 T3 20111230; RU 2008143300 A 20100510; RU 2410783 C2 20110127; UA 93899 C2 20110325; US 2009039989 A1 20090212; US 9190234 B2 20151117; WO 2007113006 A1 20071011

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