

Title (en)

Magnetic actuator with permanent, reduced-volume magnet

Title (de)

Magnetisches Stellglied mit Permanentmagnet mit reduziertem Volumen

Title (fr)

Actionneur magnétique à aimant permanent à volume réduit

Publication

**EP 1811536 B1 20131225 (FR)**

Application

**EP 07100620 A 20070116**

Priority

FR 0650208 A 20060120

Abstract (en)

[origin: EP1811536A1] The actuator has a coil (14) enclosed by a magnetic circuit (10). The circuit is formed of a mobile frame (21) with a flange (18) and a fixed part (20) including a yoke (22) enclosing a flange (17) and a permanent magnet (13). The magnet is placed at an end of an intermediate leg (11) of a side of the flange of the yoke. A magnetic flux is established between the frame and the fixed part and directed in a displacement direction of the frame. The frame and the fixed part have a complimentary shape at the level of legs (11, 12.1, 12.2). A flux guiding part is inserted in the leg (11).

IPC 8 full level

**H01H 33/66** (2006.01); **H01F 7/08** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP US)

**H01F 7/1615** (2013.01 - EP US); **H01F 7/1623** (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)

Cited by

CN103563019A; RU2608563C2; CN105374617A; AU2015321004B2; US9067290B2; US8975992B2; US8327853B2; WO2012160262A1; WO2013034445A1

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**EP 1811536 A1 20070725**; **EP 1811536 B1 20131225**; ES 2447030 T3 20140311; FR 2896615 A1 20070727; US 2007171016 A1 20070726; US 8013698 B2 20110906

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