

Title (en)

Electromagnetic actuator and switching device equipped with such an electromagnetic actuator

Title (de)

Elektromagnetisches Stellglied und Schaltgerät, das mit einem solchen elektromagnetischen Stellglied ausgestattet ist

Title (fr)

Actionneur électromagnétique et appareil interrupteur équipé d'un tel actionneur électromagnétique

Publication

EP 2037476 B1 20130213 (FR)

Application

EP 08354050 A 20080703

Priority

FR 0706505 A 20070917

Abstract (en)

[origin: EP2037476A1] The actuator (11) has a mobile part (22) with a ferromagnetic element (23) having air gap surfaces (35, 38) respectively forming a variable thickness magnetic air gap (34) and a constant thickness residual magnetic air gap (36). A magnetized assembly of a fixed part (12) is mounted against the surface (38) such that the air gap (36) is formed between the surface (38) and an air gap surface corresponding to the assembly. Magnets (31, 32) of the assembly are mounted on a face (33) of a ferromagnetic yoke (13) and extend on the face's dimension parallel to a displacement axis (26) of the face.

IPC 8 full level

H01H 51/22 (2006.01); **H01H 53/015** (2006.01)

CPC (source: EP US)

H01H 51/2209 (2013.01 - EP US); **H01H 53/015** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2037476 A1 20090318; EP 2037476 B1 20130213; CN 101393822 A 20090325; CN 101393822 B 20121205; FR 2921199 A1 20090320; FR 2921199 B1 20140314; US 2009072934 A1 20090319; US 7982567 B2 20110719

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EP 08354050 A 20080703; CN 200810149431 A 20080912; FR 0706505 A 20070917; US 22271408 A 20080814