

Title (en)

ELECTROMAGNETIC ACTUATOR WITH PERMANENT MAGNETS WHICH ARE DISPOSED IN A V-SHAPED ARRANGEMENT

Title (de)

ELEKTROMAGNETISCHER AUSLÖSER MIT DAUERMAGNETEN, DIE V-FÖRMIG ANGEORDNET WERDEN

Title (fr)

ACTIONNEUR ELECTROMAGNETIQUE À AIMANTS PERMANENTS DISPOSES EN V

Publication

EP 1955339 A1 20080813 (FR)

Application

EP 06841833 A 20061130

Priority

- FR 2006002623 W 20061130
- FR 0512239 A 20051202
- FR 0512241 A 20051202
- FR 0512243 A 20051202

Abstract (en)

[origin: WO2007063223A1] The invention relates to an electromagnetic actuator including an actuation member which is associated with a vane (4) and which can move under the action of an electromagnet comprising: a coil (3); a core (2) which is designed to channel a flux from the coil such that it is contained within the vane and which consists of a base (10) having arms extending therefrom, said arms including a central arm around which the coil extends; and two permanent magnets (13) which are associated with the core, such that the core channels a flux from the permanent magnets in order for same to be contained within the vane, the flux from the coil passing through said magnets. According to the invention, the two permanent magnets are disposed in the central arm of the core in order to form a V shape which divides the central arm into a support part (12) which supports the permanent magnets and which is solidly connected to the base and an end part (14) which covers the permanent magnets.

IPC 8 full level

F01L 9/04 (2006.01); **F01L 9/20** (2021.01); **H01F 7/122** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP KR US)

F01L 9/20 (2021.01 - EP US); **H01F 7/122** (2013.01 - KR); **H01F 7/16** (2013.01 - KR); **H01F 7/1646** (2013.01 - EP US); **F01L 2009/2148** (2021.01 - EP US)

Citation (search report)

See references of WO 2007063223A1

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)

WO 2007063223 A1 20070607; EP 1955339 A1 20080813; EP 1955339 B1 20160615; JP 2009517996 A 20090430; JP 5394068 B2 20140122; KR 101313478 B1 20131001; KR 20080073697 A 20080811; US 2008283784 A1 20081120; US 7900885 B2 20110308

DOCDB simple family (application)

FR 2006002623 W 20061130; EP 06841833 A 20061130; JP 2008542798 A 20061130; KR 20087003682 A 20061130; US 9176306 A 20061130