Title (en)

ELECTROMAGNETIC ACTUATOR HAVING PERMANENT MAGNETS PLACED IN THE FORM OF A V IN AN ELECTROMAGNETICALLY OPTIMIZED ARRANGEMENT

Title (de)

ELEKTROMAGNETISCHER AUSLÖSER MIT V-FÖRMIG ELEKTROMAGNETISCH OPTIMIERT ANGEORDNETEN DAUERMAGNETEN

Title (fr)

ACTIONNEUR ELECTROMAGNETIQUE A AIMANTS PERMANENTS DISPOSES EN V SELON UN AGENCEMENT ELECTROMAGNETIQUEMENT OPTIMISE

Publication

EP 1971989 A1 20080924 (FR)

Application

EP 07717909 A 20070108

Priority

- FR 2007000019 W 20070108
- FR 0600261 A 20060112

Abstract (en)

[origin: WO2007080301A1] The invention relates to an electromagnetic actuator comprising an actuating member associated with an armature (4) and able to move under the action of at least one electromagnet, a coil (3), a core (2) suitable for channelling a flux of the coil, so that said flux closes within the armature, the core comprising a base (10) from which branches extend, including a central branch around which the coil extends, and two permanent magnets (13) which are associated with the core. According to the invention, the two permanent magnets are placed in the central branch of the core in order to form a V, which separates the central branch into two parts, so that any section (S1, S2, S3) of the core (2) or of the armature (4) through which the flux from one or other of the permanent magnets can pass, has an area large enough to prevent saturation by this flux.

IPC 8 full level

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

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2007080301A1

Citation (examination)

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