Title (en)

ELECTROMAGNETIC ACTUATOR COMPRISING A MAGNETIC TUBE AND USED FOR ACTUATING A HYDRAULIC OR PNEUMATIC VALVE

Title (de)

ELEKTROMAGNETISCHES STELLGLIED MIT EINER MAGNETRÖHRE, VERWENDET ZUM BETÄTIGEN EINES HYDRAULISCHEN ODER PNEUMATISCHEN VENTILS

Title (fr)

ACTIONNEUR ÉLECTROMAGNÉTIQUE COMPORTANT UN TUBE MAGNÉTIQUE ET DESTINÉ A ACTIONNER UNE VANNE HYDRAULIQUE OU PNEUMATIQUE

Publication

EP 1915763 A1 20080430 (FR)

Application

EP 06794268 A 20060802

Priority

- FR 2006001876 W 20060802
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Abstract (en)

[origin: WO2007015008A1] The electromagnetic actuator comprises an electric coil (1) mounted in a magnetic yoke (2), first and second pole parts (3, 4), which are connected to the yoke (2) and each of which extends near a free space (5) in which a magnetic core (6) is translationally displaceable by the action of the power supply to the electric coil (1) and the formation of different magnetic fields in the pole parts (3, 4). The inventive actuator consists of a tubular part (7), which is made of a magnetic material, delimits, at least partially, the free space, surrounds the magnetic core (6) for guiding the displacement thereof and has magnetically continues with the pole part(s) (3, 4) in such a way that the radial air gap between the magnetic core (6) and the magnetic pole part(s) (3, 4) is reduced.

IPC 8 full level

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CPC (source: EP US)

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