

Title (en)

ROTATABLE SINGLE-PHASE ELECTROMAGNETIC ACTUATOR WITH A MAGNETIC SPRING, AND ELECTRICALLY OPERATED VALVE USING SAME

Title (de)

EINPHASIGE ELEKTROMAGNETISCHE DREHBARE BETÄTIGUNGSVORRICHTUNG MIT MAGNETFEDER UND ELEKTRISCHES VENTIL MIT EINER SOLCHEN BETÄTIGUNGSVORRICHTUNG

Title (fr)

ACTIONNEUR ELECTROMAGNETIQUE MONOPHASE ROTATIF A RESSORT MAGNETIQUE ET VANNE ELECTRIQUE METTANT EN OEUVRE UN TEL ACTIONNEUR

Publication

EP 0886875 A1 19981230 (FR)

Application

EP 97900660 A 19970116

Priority

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- FR 9600496 A 19960117

Abstract (en)

[origin: WO9726667A1] A single-phase electromagnetic actuator with a torque caused by a constant current over a major part of the working stroke, and a magnetic righting torque about an inoperative position that is stable in the absence of a current. The actuator comprises a stationary device (1) consisting of stator circuit energised by at least one electric coil, and a rotatably movable device (2) comprising a thin magnet with 2N pairs of magnetic poles magnetised in alternate directions. The actuator further comprises righting means for returning the movable device (2) to a predetermined inoperative angular position, said righting means being magnetic or magnetostatic means consisting of a thin auxiliary righting magnet (34) arranged in the air gap, provided with 2N pairs of magnetic poles magnetised in alternate directions, and secured to the stator poles.

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