

Title (en)

Electromagnetic actuator with at least two coils

Title (de)

Elektromagnetisches Stellglied mit mindestens zwei Wicklungen

Title (fr)

Actionneur électromagnétique à au moins deux bobinages

Publication

**EP 2019396 B1 20180221 (FR)**

Application

**EP 08354047 A 20080630**

Priority

FR 0705343 A 20070723

Abstract (en)

[origin: EP2019396A1] The actuator has recall and maintaining units (21, 23B), an electrical current regulation unit (22) and a control subunit (24) for controlling voltage provided to windings (L1, L2) during actuator closing operation, and for controlling a winding switching unit (10) to place the windings in parallel mode to generate recall magnetic flow to close the actuator. The units and the subunit control current provided to the windings during maintenance operations of the actuator in close position, and control the unit (10) to place the windings in serial mode to generate maintenance magnetic flow. The windings are cylindrical and aligned along same longitudinal axis.

IPC 8 full level

**H01F 7/18** (2006.01)

CPC (source: EP US)

**H01F 7/1827** (2013.01 - EP US); **H01F 7/1833** (2013.01 - EP US); **H01F 7/1811** (2013.01 - EP US); **H01F 2007/1888** (2013.01 - EP US)

Citation (examination)

DE 3546513 A1 19870219 - KLOECKNER WOLFGANG DR [DE]

Cited by

EP2320438A1; FR2952469A1

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 2019396 A1 20090128; EP 2019396 B1 20180221**; CN 101354944 A 20090128; FR 2919421 A1 20090130; FR 2919421 B1 20180216; JP 2009027178 A 20090205; US 2009027823 A1 20090129

DOCDB simple family (application)

**EP 08354047 A 20080630**; CN 200810131697 A 20080723; FR 0705343 A 20070723; JP 2008190274 A 20080723; US 21373108 A 20080624