

Title (en)
ELECTROMAGNETIC VALVE ACTUATOR

Title (de)
ELEKTROMAGNETISCHER VENTIL-AKTUATOR

Title (fr)
ACTIONNEUR ELECTROMAGNETIQUE DE SOUPAPE

Publication
EP 1280982 A1 20030205 (FR)

Application
EP 01931817 A 20010507

Priority
• FR 0101389 W 20010507
• FR 0005866 A 20000509

Abstract (en)
[origin: WO0186123A1] The invention concerns an electromagnetic valve actuator comprising helical springs coaxially associated respectively with an actuator rod and a valve stem and which are supported on spring retainers having a central cavity with a spherical dome shape for receiving a ball-joint with matching spherical dome shape (38), wherein the spherical dome shape surface of the cavity of the spring retainer and/or the ball-joint is cut with radial grooves (44) separating segments (45) of the spherical dome to enable lubrication.

IPC 1-7
F01L 9/04; **F01L 3/10**

IPC 8 full level
F01L 3/10 (2006.01); **F01L 9/20** (2021.01)

CPC (source: EP)
F01L 3/10 (2013.01); **F01L 9/20** (2021.01)

Citation (search report)
See references of WO 0186123A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 0186123 A1 20011115; AU 5851001 A 20011120; DE 60108494 D1 20050224; DE 60108494 T2 20060330; EP 1280982 A1 20030205; EP 1280982 B1 20050119; ES 2234839 T3 20050701; FR 2808859 A1 20011116; FR 2808859 B1 20030117

DOCDB simple family (application)
FR 0101389 W 20010507; AU 5851001 A 20010507; DE 60108494 T 20010507; EP 01931817 A 20010507; ES 01931817 T 20010507; FR 0005866 A 20000509