

Title (en)
ELECTROMAGNETIC MULTIPLE ACTUATOR

Title (de)
ELEKTROMAGNETISCHER MEHRFACHSTELLANTRIEB

Title (fr)
MECANISME DE COMMANDE MULTIPLE ELECTROMAGNETIQUE

Publication
EP 1179121 B1 20030402 (DE)

Application
EP 00943573 A 20000512

Priority
• DE 0001500 W 20000512
• DE 19922427 A 19990514

Abstract (en)
[origin: DE19922427A1] The invention relates to a multiple actuator for an electromechanically actuated valve. The inventive actuator comprises a housing (1, 2, 3) through which several armature shafts (9) extend. The armature shafts each comprise an armature (10) and two electromagnets which are situated inside the housing. Two springs (12, 68) impinge upon each armature (10) in order to displace them into an inoperative position between the electromagnets. This construction enables the available surface area to be optimally utilized by a valve to be actuated. The armature (10) has a maximum surface, and an optimal heat dissipation by thermal conduction can be attained via the corresponding underside (15) of the housing.

IPC 1-7
F01L 9/04

IPC 8 full level
F01L 3/24 (2006.01); **F01L 9/20** (2021.01); **H01F 7/123** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP US)
F01L 9/20 (2021.01 - EP US); **H01F 7/123** (2013.01 - EP US); **H01F 7/1638** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 19922427 A1 20001130; DE 50001622 D1 20030508; EP 1179121 A1 20020213; EP 1179121 B1 20030402; JP 2002544433 A 20021224; US 2002041222 A1 20020411; US 6526928 B2 20030304; WO 0070196 A1 20001123

DOCDB simple family (application)
DE 19922427 A 19990514; DE 0001500 W 20000512; DE 50001622 T 20000512; EP 00943573 A 20000512; JP 2000618591 A 20000512; US 99299801 A 20011114