

Title (en)
CONTROL VALVE FOR LIQUIDS

Title (de)
VENTIL ZUM STEUERN VON FLÜSSIGKEITEN

Title (fr)
SOUPAPE DE COMMANDE DE LIQUIDES

Publication
EP 1399664 A1 20040324 (DE)

Application
EP 02740339 A 20020510

Priority
• DE 0201702 W 20020510
• DE 10123172 A 20010512

Abstract (en)
[origin: DE10123172A1] The device has a piezoactuator (2), a converter for converting the actuator's stroke, a control valve (14) operated by the converter and a device (27) for temperature compensation, whereby the converter is in the form of a membrane (3) that is tensioned with a spring element (9), especially a plate spring or a spiral spring.

IPC 1-7
F02M 47/02; **F02M 59/46**

IPC 8 full level
F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 51/00** (2006.01); **F02M 51/06** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 63/0026 (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
DE 10123172 A1 20021114; EP 1399664 A1 20040324; JP 2004519611 A 20040702; US 2004084998 A1 20040506; WO 02092993 A1 20021121

DOCDB simple family (application)
DE 10123172 A 20010512; DE 0201702 W 20020510; EP 02740339 A 20020510; JP 2002590234 A 20020510; US 33274603 A 20030613