

Title (en)

Diaphragm valve with spring-supported diaphragm

Title (de)

Membranventil mit einer federgestützten Membran

Title (fr)

Soupape à membrane avec une membrane supportée par un ressort

Publication

**EP 1213451 B1 20060614 (DE)**

Application

**EP 01127107 A 20011115**

Priority

DE 10061307 A 20001208

Abstract (en)

[origin: EP1213451A1] The membrane valve has a heater which transmits heat to the valve spring (20). The valve has a casing (17) with an input line (21) and an output line (23). The induction line can be closed by a membrane (19) supported by the spring. The heating device may have a wall cladding (25) of a heat-conducting material such as copper, and a heating element (28).

IPC 8 full level

**F01M 13/02** (2006.01); **F01M 13/00** (2006.01); **F01M 13/04** (2006.01)

CPC (source: EP)

**F01M 13/023** (2013.01); **F01M 2013/0027** (2013.01); **F01M 2013/0455** (2013.01); **F01M 2013/0472** (2013.01)

Cited by

WO2008114120A1; DE102009017658B4; EP1515010A1; FR2851315A1; EP1433994A1; DE102012108013A1; CN112145256A; US11598233B2; FR2891588A1; FR2962078A1; EP3421742A1; JP2019011699A; WO2008008963A1; WO2005028822A1; WO03021087A1; US7770592B2; US10704435B2; DE202008006606U1; DE102009017658A1; US8186374B2

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)

**EP 1213451 A1 20020612**; **EP 1213451 B1 20060614**; AT E330110 T1 20060715; DE 10061307 A1 20020711; DE 50110137 D1 20060727

DOCDB simple family (application)

**EP 01127107 A 20011115**; AT 01127107 T 20011115; DE 10061307 A 20001208; DE 50110137 T 20011115