

Title (en)
Valve element and method for its production

Title (de)
Ventilelement und Verfahren zu seiner Herstellung

Title (fr)
Élément d'aération et son procédé de fabrication

Publication
EP 2025924 A3 20090513 (DE)

Application
EP 08104759 A 20080715

Priority
DE 102007037219 A 20070807

Abstract (en)
[origin: EP2025924A2] The device has a sealing surface (27) placed for sealing a fluid flow against a sealing surface (11) e.g. valve seat, of a valve element. One of the sealing surfaces is coated with a coating (21) made of a shape memory alloy. The sealing surfaces are designed as a flat seal. The sealing surface (27) is formed at a closing element (23) of the valve element. The closing element is formed spherical or conically. The shape memory alloy provides a reversible deformation after an effect of an external force. An independent claim is also included for a method for manufacturing a device for sealing a fluid flow.

IPC 8 full level
F02M 61/16 (2006.01); **F02M 61/18** (2006.01); **F02M 63/00** (2006.01); **F16K 25/00** (2006.01)

CPC (source: EP)
F02M 61/166 (2013.01); **F02M 61/1886** (2013.01); **F02M 2200/8053** (2013.01); **F02M 2200/9015** (2013.01)

Citation (search report)

- [XA] JP 2005226455 A 20050825 - TOYOTA MOTOR CORP, et al
- [XA] JP 2005054856 A 20050303 - NEC TOKIN CORP, et al

Cited by
CN102268363A; US11408301B2; US10125735B2; EP2971749B1

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

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2025924 A2 20090218; EP 2025924 A3 20090513; DE 102007037219 A1 20090212

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EP 08104759 A 20080715; DE 102007037219 A 20070807