

Title (en)

Valve for an injection apparatus of a combustion engine

Title (de)

Ventilanordnung einer Kraftstoffeinspritzvorrichtung für Brennkraftmaschinen

Title (fr)

Vanne pour un dispositif d'injection de carburant de moteur à combustion

Publication

EP 1719907 A1 20061108 (DE)

Application

EP 06111156 A 20060315

Priority

DE 102005020598 A 20050503

Abstract (en)

The arrangement has a piezoelectric actuator (17) provided with a movable actuating unit. A hydraulic coupling area (18) is limited by a control surface of a valve piston (6) and a control surface of the actuating unit in opening direction of the piston. A piston rear area (24) is connected to a high pressure-fuel supply (4) and limited by another control surface of the piston, where a closing force acting on the piston is larger than an opening force.

IPC 8 full level

F02M 63/00 (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 63/0026** (2013.01); **F02M 63/0045** (2013.01); **F02M 2200/703** (2013.01); **F02M 2200/704** (2013.01)

Citation (search report)

- [X] US 2003052184 A1 20030320 - BOECKING FRIEDRICH [DE]
- [X] US 6820820 B1 20041123 - BOECKING FRIEDRICH [DE]
- [X] US 2002179730 A1 20021205 - BOECKING FRIEDRICH [DE]
- [A] DE 10037527 A1 20010215 - DENSO CORP [JP]
- [A] US 6457699 B1 20021001 - STOECKLEIN WOLFGANG [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

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