

Title (en)  
Fuel injector valve

Title (de)  
Brennstoffeinspritzventil

Title (fr)  
Soupape d'injection de combustible

Publication  
**EP 2166218 A3 20100623 (DE)**

Application  
**EP 09166426 A 20090727**

Priority  
DE 102008042158 A 20080917

Abstract (en)  
[origin: EP2166218A2] The valve (1) has a control valve (55) operated by a piezoelectric actuator (45), where the control valve exhibits a valve rod (29), a valve plate (15) and a throttle plate (10). A recess (32) is connected with a through-hole (28) of the valve plate at a side facing the throttle plate. The valve rod releases a connection of a discharge throttle (19) of the throttle plate with a channel (20) of the throttle plate via the recess of the valve plate during actuation of the control valve. The channel is connected with a low pressure return line (26).

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

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 51/0603** (2013.01); **F02M 63/004** (2013.01)

Citation (search report)

- [XY] DE 102005059437 A1 20070614 - BOSCH GMBH ROBERT [DE]
- [Y] EP 1865189 A2 20071212 - BOSCH GMBH ROBERT [DE]
- [X] DE 102007011685 A1 20080911 - BOSCH GMBH ROBERT [DE]

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2166218 A2 20100324; EP 2166218 A3 20100623**; CN 101676549 A 20100324; DE 102008042158 A1 20100318

DOCDB simple family (application)  
**EP 09166426 A 20090727**; CN 200910175511 A 20090917; DE 102008042158 A 20080917