

Title (en)  
Fuel injector valve

Title (de)  
Brennstoffeinspritzventil

Title (fr)  
Soupape d'injection de combustible

Publication  
**EP 2412965 A3 20140507 (DE)**

Application  
**EP 11170708 A 20110621**

Priority  
DE 102010038451 A 20100727

Abstract (en)  
[origin: EP2412965A2] The injection valve (1) has a control chamber (27) connected with a valve chamber (31) of a control valve (30) by a discharge borehole (34), where the control valve has a spring element (45) arranged in the valve chamber. The control valve has a valve bolt (38) comprising a valve body (39) cooperating with a valve seat surface (40) at a seal seat (41). The seal seat controls flow of fuel from the valve chamber, and the valve bolt is guided into a guide borehole (51) of an intermediate plate (8), where a side (12) of the intermediate plate limits the valve chamber.

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

CPC (source: EP)  
**F02M 47/027** (2013.01); **F02M 63/0035** (2013.01); **F02M 63/0047** (2013.01); **F02M 63/0071** (2013.01); **F02M 63/0077** (2013.01)

Citation (search report)

- [XP] EP 2275667 A1 20110119 - BOSCH GMBH ROBERT [DE]
- [XYI] EP 0999360 A1 20000510 - SIEMENS AG [DE]
- [Y] DE 102008001330 A1 20091029 - BOSCH GMBH ROBERT [DE]
- [Y] DE 102008040170 A1 20100107 - BOSCH GMBH ROBERT [DE]

Cited by  
CN106762289A

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2412965 A2 20120201; EP 2412965 A3 20140507**; DE 102010038451 A1 20120202

DOCDB simple family (application)  
**EP 11170708 A 20110621**; DE 102010038451 A 20100727