

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 1869311 B1 20091028 (DE)**

Application  
**EP 06705426 A 20060404**

Priority  
• CH 2006000191 W 20060404  
• CH 6762005 A 20050414  
• CH 11152005 A 20050701

Abstract (en)  
[origin: US7891584B2] The housing body (14) of the fuel injection valve comprises a recess (108), the end region of said recess having a conical tapering (110) on the bottom side thereof. The supporting body (48) engages in said conical tapering (110) with a projection (116) also comprising a conical end region (118). The closing spring (40) is supported on the needle-shaped injection valve member (34) on one side, and on the guiding sleeve (38) on the other side. The guiding sleeve (38) is supported on the supporting body (48) with the front side (461) thereof, whereby the supporting body is held against the tapering (110) in a sealing manner, under the force exerted by the closing spring (40).

IPC 8 full level  
**F02M 61/16** (2006.01); **F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 61/12** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP US)  
**F02M 47/027** (2013.01 - EP US); **F02M 61/12** (2013.01 - EP US); **F02M 61/16** (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 61/18** (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 55/004** (2013.01 - EP US); **F02M 2200/16** (2013.01 - EP US); **F02M 2200/8076** (2013.01 - EP US)

Cited by  
DE102016008836A1

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

DOCDB simple family (publication)  
**WO 2006108309 A1 20061019**; AT E447104 T1 20091115; BR PI0608785 A2 20100126; DE 502006005245 D1 20091210; EP 1869311 A1 20071226; EP 1869311 B1 20091028; US 2008210784 A1 20080904; US 7891584 B2 20110222

DOCDB simple family (application)  
**CH 2006000191 W 20060404**; AT 06705426 T 20060404; BR PI0608785 A 20060404; DE 502006005245 T 20060404; EP 06705426 A 20060404; US 91151506 A 20060404