

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE COMBUSTIBLE

Publication  
**EP 1828594 B1 20151007 (DE)**

Application  
**EP 05807953 A 20051007**

Priority  
• EP 2005055094 W 20051007  
• DE 102004060983 A 20041217

Abstract (en)  
[origin: WO2006063880A1] Disclosed is a receiving bore (3) of a cylinder head (4), which is used for integrating a fuel injection valve (2) into the cylinder head (4). Said receiving bore (3) comprises a first shoulder area (18). A second shoulder area (16) of the valve housing (14), which is located at the discharge end and represents the counterpart to the first shoulder area (18) of the receiving bore (3), is shaped such that a positive connection is created between the shoulder area (18) of the receiving bore (3) in the cylinder head (4) and the shoulder area (16) of the valve housing (14) located at the discharge end. The shoulder areas (16, 18) define a support area (24) which represents a second-order hypersurface in three-dimensional space.

IPC 8 full level  
**F02M 61/14** (2006.01)

CPC (source: EP US)  
**F02M 61/14** (2013.01 - EP US)

Citation (examination)  
US 2002148446 A1 20021017 - GMELIN KARL [DE]

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
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**DE 102004060983 A 20041217**; CN 200580043070 A 20051007; EP 05807953 A 20051007; EP 2005055094 W 20051007; JP 2007545995 A 20051007; US 79332405 A 20051007