

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1336046 A2 20030820 (DE)**

Application  
**EP 01993759 A 20011109**

Priority  
• DE 0104187 W 20011109  
• DE 10055484 A 20001109

Abstract (en)  
[origin: WO0238944A2] A fuel injection valve (1) for internal combustion engine fuel injection systems, comprising a valve needle (3) and a valve sealing body (4) which cooperates therewith and interacts with a valve seat surface (6) arranged in a valve seat body (5) in order to produce a tight seat. At least one turbulence channel is disposed downstream from the tight seat and provided with a tangential component in relation to a longitudinal axis (38) of the fuel injection valve (1). An axial channel (35) is provided between the valve sealing body (4) and the guide recess (34) of the turbulence disk (31), comprising an axial component in relation to the longitudinal axis (38) of the fuel injection valve (1). The axial channel (35) is configured as an annular gap and has a throughflow limiting part (36) and an expanded part (37).

IPC 1-7  
**F02M 61/00**

IPC 8 full level  
**F02M 61/18** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)  
**F02M 61/162** (2013.01)

Citation (search report)  
See references of WO 0238944A2

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 0238944 A2 20020516; WO 0238944 A3 20030109**; DE 10055484 A1 20020523; DE 10055484 B4 20051027; EP 1336046 A2 20030820; JP 2004513294 A 20040430

DOCDB simple family (application)  
**DE 0104187 W 20011109**; DE 10055484 A 20001109; EP 01993759 A 20011109; JP 2002541241 A 20011109