

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1606509 A1 20051221 (DE)**

Application  
**EP 04704537 A 20040123**

Priority  
• DE 2004000098 W 20040123  
• DE 10310790 A 20030312

Abstract (en)  
[origin: DE10310790A1] The fuel injection valve (1) has an electrically-controlled piezoelectric or magnetostrictive actuator (4) for movement of a valve closure (20) within a valve housing (2) relative to a valve seat surface (21), with a hydraulic coupler (10) between the actuator and a valve group (11) incorporating the valve closure and the valve seat surface.

IPC 1-7  
**F02M 51/06**; **F02M 61/16**; **F02M 61/08**

IPC 8 full level  
**F02M 51/00** (2006.01); **F02M 51/06** (2006.01); **F02M 61/08** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)  
**F02M 51/005** (2013.01 - EP US); **F02M 51/0603** (2013.01 - EP US); **F02M 61/08** (2013.01 - EP US); **F02M 61/167** (2013.01 - EP US);  
**F02M 2200/703** (2013.01 - EP US)

Citation (search report)  
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DE FR GB IT

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DE 502004004809 D1 20071011; EP 1606509 A1 20051221; EP 1606509 B1 20070829; JP 2006513363 A 20060420;  
US 2006175438 A1 20060810; US 7635093 B2 20091222; WO 2004081367 A1 20040923

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