

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1434937 A1 20040707 (DE)**

Application  
**EP 02769884 A 20020822**

Priority  
• DE 0203070 W 20020822  
• DE 10148594 A 20011002

Abstract (en)  
[origin: DE10148594A1] The device has a piezoelectric or magnetostrictive actuator that operates a valve closure body via a hydraulic coupler with a sender piston and a pick-up piston in bores in a guide sleeve with a hydraulic fluid filled chamber between them. A corrugated tube (27b) around the guide sleeve (33) has sealed connections to the pistons (24,34) and seals a storage chamber (37) for the hydraulic fluid with respect to an enclosing fuel chamber (30).

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

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

CPC (source: EP US)  
**F02M 51/0603** (2013.01 - EP US); **F02M 61/08** (2013.01 - EP US); **F02M 61/167** (2013.01 - EP US); **F02M 2200/16** (2013.01 - EP US); **F02M 2200/703** (2013.01 - EP US); **F02M 2200/707** (2013.01 - EP US)

Citation (search report)  
See references of WO 03031799A1

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