

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication
EP 1252433 A2 20021030 (DE)

Application
EP 00993183 A 20001110

Priority
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• DE 19954288 A 19991111

Abstract (en)
[origin: DE19954288A1] An injection valve element (24) controls an injection opening (26). A control valve (18) affects movement in the injection valve element with a control valve element (62) for regulating pressure in a pressure control area (48). The control valve element moves through adjusting force created by a piezo actuator (80) and thus regulates a pressure control area link with a balancing area (12).

IPC 1-7
F02M 47/02; **F02M 59/46**

IPC 8 full level
F02M 61/10 (2006.01); **F02M 45/08** (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 51/06** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)
F02M 45/08 (2013.01 - EP US); **F02M 47/02** (2013.01 - EP US); **F02M 47/025** (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 59/46** (2013.01 - KR); **F02M 2200/21** (2013.01 - EP US); **F02M 2200/703** (2013.01 - EP US)

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See references of WO 0138712A2

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