

Title (en)
Injection valve

Title (de)
Einspritzventil

Title (fr)
Injecteur

Publication
EP 1662133 A1 20060531 (DE)

Application
EP 05025818 A 20051125

Priority
• DE 102004057151 A 20041126
• DE 102005007133 A 20050217

Abstract (en)
Injection valve comprises a pressure-maintaining valve (4) arranged between a feed channel (140) leading to a control valve (3) of the injection valve and a spring chamber (105). A pressure is applied to the spring chamber in the feed channel and the pressure maintained by the pressure-maintaining valve acts with a pre-tensioned spring (110) on an injection needle (170) of the injection valve. Preferred Features: The diameter of the pump piston (210) of a pump (2) supplying the injection valve with fuel is reduced to 6.0-6.5 mm, preferably 6.25 mm. The pressure-maintaining valve is arranged in the spring chamber.

IPC 8 full level
F02M 57/02 (2006.01); **F02M 59/46** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)
F02M 57/02 (2013.01); **F02M 59/366** (2013.01); **F02M 59/468** (2013.01); **F02M 61/205** (2013.01); **F02M 2200/04** (2013.01); **F02M 2200/705** (2013.01)

Citation (applicant)
EP 0675282 B1 19980812 - LUCAS IND PLC [GB]

Citation (search report)
• [X] DE 10160080 A1 20030626 - SIEMENS AG [DE]
• [X] US 2003178001 A1 20030925 - PARCHE MARCUS [DE]
• [X] EP 0844384 A1 19980527 - LUCAS IND PLC [GB]
• [X] WO 03106836 A1 20031224 - SIEMENS AG [DE], et al
• [X] US 4979676 A 19901225 - HEHN LUCIEN [FR]
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• [X] US 2004045529 A1 20040311 - DUPLAT GERARD [FR], et al

Designated contracting state (EPC)
DE FR

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