

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1108137 A1 20010620 (DE)

Application
EP 00945543 A 20000520

Priority
• DE 0001625 W 20000520
• DE 19928204 A 19990619

Abstract (en)
[origin: DE19928204A1] The fuel injection valve (1) has a valve closure (46), cooperating with a valve seat (44) and operated by an actuator (10) via a valve needle (45) which is angularly offset relative to the valve longitudinal axis (13). The valve needle axis (54) has a given pivot angle relative to the axis (55) of the actuator.

IPC 1-7
F02M 61/18; **F02M 61/04**; **F02M 51/06**; **F02M 61/08**

IPC 8 full level
F02M 61/18 (2006.01); **F02M 51/06** (2006.01); **F02M 61/04** (2006.01); **F02M 61/08** (2006.01); **H01L 41/09** (2006.01); **H01L 41/12** (2006.01)

CPC (source: EP KR US)
F02M 51/0603 (2013.01 - EP US); **F02M 61/08** (2013.01 - EP US); **F02M 61/10** (2013.01 - KR)

Citation (search report)
See references of WO 0079124A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19928204 A1 20001221; DE 50009025 D1 20050127; EP 1108137 A1 20010620; EP 1108137 B1 20041222; JP 2003502577 A 20030121; KR 20010072698 A 20010731; US 6543702 B1 20030408; WO 0079124 A1 20001228

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DE 19928204 A 19990619; DE 0001625 W 20000520; DE 50009025 T 20000520; EP 00945543 A 20000520; JP 2001505450 A 20000520; KR 20017001997 A 20010216; US 76327401 A 20010413