

Title (en)
FUEL INJECTION VALVE AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
KRAFTSTOFFEINSPRITZVENTIL UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT ET SON PROCEDE DE PRODUCTION

Publication
EP 1114253 A1 20010711 (DE)

Application
EP 00954299 A 20000705

Priority
• DE 0002134 W 20000705
• DE 19931274 A 19990707

Abstract (en)
[origin: DE19931274A1] The invention relates to a fuel injection valve for internal combustion engines comprising a valve member (1) that can be axially displaced in a guide hole in a valve body (2). Said valve member has a valve sealing surface (3) on the combustion chamber side cooperating with a valve seat (4) formed on the combustion chamber side of the guide hole in order to control the connection between a high pressure channel (6) in the valve body (2) and at least one injection port (5). Said valve member (1) also has a control channel (7) by means of which the high pressure channel (6) can be connected to a relief chamber when the valve member (1) is lifted from the valve seat (4) and is formed by a blind pocket extending from the combustion chamber side of the valve member (1). In order to improve the injection ratio of the fuel injection valve, a choke (8) having a constant throttle cross section is formed on the combustion chamber side of the valve member (1).

IPC 1-7
F02M 61/10; **F02M 45/00**; **F02M 61/16**

IPC 8 full level
F02M 45/00 (2006.01); **F02M 61/04** (2006.01); **F02M 61/10** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)
F02M 45/00 (2013.01); **F02M 61/042** (2013.01); **F02M 61/10** (2013.01); **F02M 61/16** (2013.01)

Citation (search report)
See references of WO 0104489A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 19931274 A1 20010125; BR 0006904 A 20010612; CZ 2001805 A3 20011212; EP 1114253 A1 20010711; JP 2003504553 A 20030204; SK 2892001 A3 20011203; WO 0104489 A1 20010118

DOCDB simple family (application)
DE 19931274 A 19990707; BR 0006904 A 20000705; CZ 2001805 A 20000705; DE 0002134 W 20000705; EP 00954299 A 20000705; JP 2001509868 A 20000705; SK 2892001 A 20000705