

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 0786049 B1 20010404 (DE)

Application
EP 96928321 A 19960724

Priority
• DE 9601358 W 19960724
• DE 19529375 A 19950810

Abstract (en)
[origin: DE19529375A1] In known fuel injection valves, gas is supplied in an adapter through gas supply channels oriented towards the fuel in a central opening. These adapters are made of a single piece, so that no variable gas dosage is possible and machining the gas supply channels is made more difficult. The new adapter body (50) for a fuel injection valve (1), however, is made of several pieces, namely a base body (51) and at least one calibrating sleeve (52). Gas is supplied and dosed through the calibrating sleeve (52), whereas the base body (51) serves only for sealing and fixing purposes. Size-accurate calibrating sleeves (52) may be easily and economically machined. This design allows a great diversity of embodiments to be obtained in a simple manner. This fuel injection valve is particularly useful for fuel injection systems of spark-ignited, high compression ratio internal combustion engines.

IPC 1-7
F02M 69/04; **F02M 51/08**

IPC 8 full level
F02M 51/08 (2006.01); **F02M 43/04** (2006.01); **F02M 61/18** (2006.01); **F02M 69/04** (2006.01); **F02M 51/06** (2006.01)

CPC (source: EP KR US)
F02M 43/04 (2013.01 - EP KR US); **F02M 51/08** (2019.01 - KR); **F02M 61/1853** (2013.01 - EP KR US); **F02M 69/047** (2013.01 - EP KR US); **F02M 51/06** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19529375 A1 19970213; CN 1066243 C 20010523; CN 1158153 A 19970827; DE 59606717 D1 20010510; EP 0786049 A1 19970730; EP 0786049 B1 20010404; JP H10507509 A 19980721; KR 970706454 A 19971103; US 5904299 A 19990518; WO 9706365 A1 19970220

DOCDB simple family (application)
DE 19529375 A 19950810; CN 96190749 A 19960724; DE 59606717 T 19960724; DE 9601358 W 19960724; EP 96928321 A 19960724; JP 50800897 A 19960724; KR 19970702142 A 19970402; US 80980497 A 19970915