

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 0944769 A1 19990929 (DE)**

Application  
**EP 98947358 A 19980728**

Priority  
• DE 9802134 W 19980728  
• DE 19744739 A 19971010

Abstract (en)  
[origin: US6186472B1] A fuel injection valve has a metal base body extending over its entire axial length, which includes a core/internal pole and a valve jacket. The internal pole is produced by extrusion and includes a valve inlet connection, the actual core of the electromagnetic circuit, a magnetic choke point and an area for guiding an armature. However, the valve jacket is produced by deep drawing. In addition to its function as a housing part, the valve jacket also serves as a valve seat carrier. A clearance is formed between the valve jacket and the internal pole, holding a magnet coil which is sealed by a ring gasket and is therefore dry. This fuel injection valve is suitable in particular for use in fuel injection systems of internal combustion engines with spark ignition and gas mixture compression.

IPC 1-7  
**F02M 51/06**

IPC 8 full level  
**F02M 51/06** (2006.01); **F02M 61/12** (2006.01)

CPC (source: EP KR US)  
**F02M 51/061** (2013.01 - EP US); **F02M 51/0614** (2013.01 - EP KR US); **F02M 51/0664** (2013.01 - EP US); **F02M 51/0667** (2013.01 - EP KR US); **F02M 51/0682** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 9919620A1

Designated contracting state (EPC)  
AT DE ES GB IT

DOCDB simple family (publication)  
**US 6186472 B1 20010213**; AT E239867 T1 20030515; BR 9806699 A 20000229; CN 1138915 C 20040218; CN 1241241 A 20000112; DE 19744739 A1 19990415; DE 59808268 D1 20030612; EP 0944769 A1 19990929; EP 0944769 B1 20030507; ES 2199465 T3 20040216; JP 2001505979 A 20010508; JP 4180122 B2 20081112; KR 100573190 B1 20060424; KR 20000069385 A 20001125; WO 9919620 A1 19990422

DOCDB simple family (application)  
**US 31963599 A 19990813**; AT 98947358 T 19980728; BR 9806699 A 19980728; CN 98801499 A 19980728; DE 19744739 A 19971010; DE 59808268 T 19980728; DE 9802134 W 19980728; EP 98947358 A 19980728; ES 98947358 T 19980728; JP 52073899 A 19980728; KR 19997005123 A 19990609