

Title (en)
INJECTION VALVE

Title (de)
EINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION

Publication
EP 1523620 A1 20050420 (DE)

Application
EP 03740112 A 20030701

Priority
• DE 0302185 W 20030701
• DE 10232693 A 20020718

Abstract (en)
[origin: DE10232693A1] The fuel injection valve, for an internal combustion motor, has a valve housing (1) in a hollow cylindrical shape with a valve seat at the end. An inner coaxial valve needle (2) has a valve plate (4) to work with the valve seat, and the fuel flows within the housing in the space (9) between its inner wall and the valve needle. The outer surfaces (5,6) of the housing and the valve plate, when closed, form a common surface at their dividing line (10) which is smooth and free of steps or edges, and in the required curvature.

IPC 1-7
F02M 61/08

IPC 8 full level
F02M 61/18 (2006.01); **F02M 59/00** (2006.01); **F02M 61/08** (2006.01)

CPC (source: EP US)
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Citation (search report)
See references of WO 2004016940A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
DE 10232693 A1 20040205; AU 2003285291 A1 20040303; CN 1668841 A 20050914; DE 50308979 D1 20080221; EP 1523620 A1 20050420; EP 1523620 B1 20080109; ES 2295603 T3 20080416; JP 2005533224 A 20051104; JP 4465272 B2 20100519; US 2005092854 A1 20050505; US 7108201 B2 20060919; WO 2004016940 A1 20040226

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