

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1339971 B1 20040512 (DE)

Application
EP 01997637 A 20011120

Priority
• DE 0104298 W 20011120
• DE 10057631 A 20001121

Abstract (en)
[origin: DE10057631A1] The fuel injection valve (1) comprises a first valve pin (3) that stands in working connection with a first valve lock body (4). The first valve lock body operates with a first valve seat surface (5) in a valve seat body (6) together with a seal seat (7). The fuel injection valve has, downstream of the seal seat, an inject-out opening (8). Upstream of the seal seat, in the supply of the fuel, is a twist element (28) that has a twist channel (34) and a control twist channel (30) and which sits in a twist chamber (35). There is a second valve pin (20) that covers over the control supply opening (29) to the control twist channels. The second valve pin may be built as a hollow pin (21) and enclose, coaxially, the first valve pin.

IPC 1-7
F02M 61/16; **F02M 45/08**

IPC 8 full level
F02M 45/08 (2006.01); **F02M 51/06** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)
F02M 51/0617 (2013.01); **F02M 51/0625** (2013.01); **F02M 51/0653** (2013.01); **F02M 61/162** (2013.01)

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
DE 10057631 A1 20020523; CZ 20022964 A3 20040714; DE 50102296 D1 20040617; EP 1339971 A1 20030903; EP 1339971 B1 20040512; ES 2220833 T3 20041216; WO 0242635 A1 20020530

DOCDB simple family (application)
DE 10057631 A 20001121; CZ 20022964 A 20011120; DE 0104298 W 20011120; DE 50102296 T 20011120; EP 01997637 A 20011120; ES 01997637 T 20011120