

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1402175 A1 20040331 (DE)

Application
EP 02729859 A 20020409

Priority
• DE 0201288 W 20020409
• DE 10118276 A 20010412

Abstract (en)
[origin: DE10118276A1] The fuel injection valve has a disk-shaped helical element (26) with at least one inlet (27), outlet (20) and helical channel (28) upstream of the outlet aperture. The helical element is fitted in a disk-shaped receiving part (25). A supply channel (33) runs precisely to each inlet end (34) of a helical channel (28).

IPC 1-7
F02M 61/18; **F02M 61/16**; **F02M 51/06**

IPC 8 full level
F02M 51/06 (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP US)
F02M 51/0671 (2013.01 - EP US); **F02M 61/162** (2013.01 - EP US); **F02M 61/1806** (2013.01 - EP US); **F02M 61/186** (2013.01 - EP US)

Citation (search report)
See references of WO 02084111A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
DE 10118276 A1 20021017; CN 1461383 A 20031210; CZ 20023956 A3 20040714; DE 50211838 D1 20080417; EP 1402175 A1 20040331; EP 1402175 B1 20080305; JP 2004518908 A 20040624; US 2004011895 A1 20040122; WO 02084111 A1 20021024

DOCDB simple family (application)
DE 10118276 A 20010412; CN 02801176 A 20020409; CZ 20023956 A 20020409; DE 0201288 W 20020409; DE 50211838 T 20020409; EP 02729859 A 20020409; JP 2002581830 A 20020409; US 29798202 A 20021211