

Title (en)
FUEL INJECTION SYSTEM

Title (de)
BRENNSTOFFEINSPRITZSYSTEM

Title (fr)
SYSTEME D'INJECTION DE CARBURANT

Publication
EP 1427937 B1 20061025 (DE)

Application
EP 02758113 A 20020723

Priority
• DE 0202696 W 20020723
• DE 10145035 A 20010913

Abstract (en)
[origin: WO03027492A1] The invention relates to a fuel injection system, comprising at least one fuel distributor (11) and at least one fuel injection valve (1). Said fuel distributor (11) is designed as an independent component and presents several valve housings (16) having inner longitudinal openings (17), in which the fuel injection valves (1) can be introduced. Said valve housings (16) terminate with the ends (18) thereof, opposed to a fuel supply channel (13) of the fuel distributor (11), lying freely. At least one safety element (20) for the captive fastening of the corresponding fuel injection valve (1) is shaped at said ends (18) of the valve housings (16). Said fuel injection system is particularly suitable for use in mixture-compressing spark-ignition internal combustion engines.

IPC 8 full level
F02M 55/02 (2006.01); **F02M 69/46** (2006.01); **F02M 51/00** (2006.01); **F02M 51/06** (2006.01); **F02M 61/14** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)
F02M 51/005 (2013.01 - EP US); **F02M 61/145** (2013.01 - EP US); **F02M 69/46** (2013.01 - KR); **F02M 69/465** (2013.01 - EP US)

Citation (examination)
US 5189782 A 19930302 - HICKEY JOHN C [US]

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

DOCDB simple family (publication)
WO 03027492 A1 20030403; AT E343719 T1 20061115; BR 0205987 A 20030826; CN 1473241 A 20040204; DE 10145035 A1 20030410; DE 50208558 D1 20061207; EP 1427937 A1 20040616; EP 1427937 B1 20061025; JP 2005514549 A 20050519; KR 20040044885 A 20040531; RU 2003109432 A 20041020; US 2004045531 A1 20040311; US 6863054 B2 20050308

DOCDB simple family (application)
DE 0202696 W 20020723; AT 02758113 T 20020723; BR 0205987 A 20020723; CN 02802858 A 20020723; DE 10145035 A 20010913; DE 50208558 T 20020723; EP 02758113 A 20020723; JP 2003531027 A 20020723; KR 20047003553 A 20020723; RU 2003109432 A 20020723; US 39984003 A 20031023