

Title (en)
Fuel injection system

Title (de)
Brennstoffeinspritzvorrichtung

Title (fr)
Dispositif d'injection de carburant

Publication
EP 2187040 A3 20100811 (DE)

Application
EP 10153095 A 20060302

Priority
• EP 06708603 A 20060302
• DE 102005009740 A 20050303
• DE 102005020380 A 20050502

Abstract (en)
[origin: WO2006092427A1] The invention relates to a fuel injection device provided with a particularly sound-insulating structure comprising at least one fuel injecting valve (1), a receiving bore (9) for positioning said valve (1) in a cylinder head (17) and a fuel distribution line (4) provided with a connecting piece (6) in which the fuel injection valve (1) is introduced in such a way that it partly covers said connecting piece. A connection body (18) is placed in the receiving bore (9) in such a way that the fuel injecting valve (1) is retained in the connection body (18), the fuel injecting valve (1) and the connection body (18) are arranged without abutment on all surfaces or walls of the receiving bore (9) of the cylinder head (17) which are not extending in an axially parallel direction to the fuel injection valve (1). The connection body (18) is directly applied to the connecting piece (6) of the fuel distribution line (4). The fuel injecting valve (1) is particularly suitable for use in fuel injection systems for mixture-compressing externally ignited internal combustion engines.

IPC 8 full level
F02M 61/14 (2006.01); **F02M 55/00** (2006.01); **F02M 55/02** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)
F02M 55/025 (2013.01 - EP US); **F02M 61/14** (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 2200/803** (2013.01 - EP US); **F02M 2200/853** (2013.01 - EP US); **F02M 2200/856** (2013.01 - EP US); **F02M 2200/858** (2013.01 - EP US)

Citation (search report)
• [IY] EP 1278956 A2 20030129 - SIEMENS AUTOMOTIVE CORP LP [US]
• [YA] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 4 31 August 2000 (2000-08-31)
• [Y] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)

Cited by
US10047711B2

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

DOCDB simple family (publication)
WO 2006092427 A1 20060908; AT E457422 T1 20100215; DE 502006006106 D1 20100325; EP 1859160 A1 20071128; EP 1859160 B1 20100210; EP 2187035 A2 20100519; EP 2187035 A3 20100818; EP 2187035 B1 20130227; EP 2187036 A2 20100519; EP 2187036 A3 20100811; EP 2187036 B1 20130710; EP 2187039 A2 20100519; EP 2187039 A3 20100811; EP 2187039 B1 20140507; EP 2187040 A2 20100519; EP 2187040 A3 20100811; EP 2187040 B1 20130109; EP 2187041 A2 20100519; EP 2187041 A3 20100825; EP 2187041 B1 20150128; EP 2189650 A2 20100526; EP 2189650 A3 20100811; EP 2189650 B1 20121017; JP 2008531918 A 20080814; JP 2011220342 A 20111104; JP 2014122637 A 20140703; JP 2016028201 A 20160225; JP 4809375 B2 20111109; JP 6038257 B2 20161207; JP 6120790 B2 20170426; US 2008302336 A1 20081211; US 7765984 B2 20100803

DOCDB simple family (application)
EP 2006060398 W 20060302; AT 06708603 T 20060302; DE 502006006106 T 20060302; EP 06708603 A 20060302; EP 10152996 A 20060302; EP 10153017 A 20060302; EP 10153043 A 20060302; EP 10153072 A 20060302; EP 10153095 A 20060302; EP 10153103 A 20060302; JP 2007557510 A 20060302; JP 2011118402 A 20110526; JP 2014042944 A 20140305; JP 2015201159 A 20151009; US 88559906 A 20060302