

Title (en)

FUEL INJECTION VALVE AND FUEL INJECTION SYSTEM

Title (de)

BRENNSTOFFEINSPRITZVENTIL UND BRENNSTOFFEINSPRITZSYSTEM

Title (fr)

SOUPAPE D'INJECTION DE CARBURANT ET SYSTÈME D'INJECTION DE CARBURANT

Publication

EP 2097635 B1 20100217 (DE)

Application

EP 07820738 A 20071001

Priority

- EP 2007060352 W 20071001
- DE 102006056704 A 20061130

Abstract (en)

[origin: US2009260597A1] A fuel injector, especially for the direct injection of fuel into a combustion chamber of an internal combustion engine, includes a nozzle body able to be inserted into a recess of a cylinder head, a valve housing, a plug abutting the valve housing, and at least one fixation element, which fixes the nozzle body in its position in the recess, the fixation element extending from a connection region (28) between the valve housing and the plug on the spray-discharge side. The at least one fixation element has a reinforcement having a spherical contour at an outer periphery, the reinforcement being formed by at least one outwardly projecting element having an outwardly curving end face and/or having a planar end face.

IPC 8 full level

F02M 55/00 (2006.01); **F02M 55/02** (2006.01); **F02M 61/14** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP KR US)

F02M 55/02 (2013.01 - KR); **F02M 61/14** (2013.01 - EP KR US); **F02M 61/16** (2013.01 - KR); **F02M 63/02** (2013.01 - KR); **F02M 51/005** (2013.01 - EP US); **F02M 51/061** (2013.01 - EP US); **F02M 55/005** (2013.01 - EP US); **F02M 61/1806** (2013.01 - EP US); **F02M 2200/852** (2013.01 - EP US); **F02M 2200/858** (2013.01 - EP US); **F02M 2200/9015** (2013.01 - EP US)

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2009260597 A1 20091022; US 7886717 B2 20110215; AT E458142 T1 20100315; CN 101542105 A 20090923; CN 101542105 B 20120718; DE 102006056704 A1 20080605; DE 502007002889 D1 20100401; EP 2097635 A1 20090909; EP 2097635 B1 20100217; JP 2010511121 A 20100408; JP 5065405 B2 20121031; KR 101423997 B1 20140801; KR 20090083914 A 20090804; WO 2008064941 A1 20080605

DOCDB simple family (application)

US 30468407 A 20071001; AT 07820738 T 20071001; CN 200780043820 A 20071001; DE 102006056704 A 20061130; DE 502007002889 T 20071001; EP 07820738 A 20071001; EP 2007060352 W 20071001; JP 2009538658 A 20071001; KR 20097011137 A 20071001