

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 2087228 B1 20120718 (DE)

Application
EP 07803448 A 20070913

Priority
• EP 2007059611 W 20070913
• DE 102006051327 A 20061031

Abstract (en)
[origin: WO2008052840A1] A fuel injection valve (1), in particular for the direct injection of fuel into a combustion chamber (18) of an internal combustion engine, has a valve needle (3) which is arranged in a nozzle body (2) and can be actuated by an actuator, and a valve closing body (4) which is operatively connected to the valve needle (3) and, for opening and closing the valve (1), interacts with a valve seat face (6) which is formed on a valve seat body (5), wherein the valve seat body (5) is provided with at least one spray hole (7). The at least one spray hole (7) comprises a first cylindrical section (40) having a fuel inlet opening (36) and a second cylindrical section (41) which is arranged downstream of the first cylindrical section (40) and has a fuel outlet opening (37), wherein the first and the second cylindrical sections (40, 41) do not extend coaxially with respect to one another.

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

CPC (source: EP US)
F02M 51/0671 (2013.01 - EP US); **F02M 61/1806** (2013.01 - EP US); **F02M 61/1853** (2013.01 - EP US)

Cited by
EP2707592A4

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)
DE 102006051327 A1 20080508; EP 2087228 A1 20090812; EP 2087228 B1 20120718; JP 2010508468 A 20100318; US 2010282872 A1 20101111; US 8313048 B2 20121120; WO 2008052840 A1 20080508

DOCDB simple family (application)
DE 102006051327 A 20061031; EP 07803448 A 20070913; EP 2007059611 W 20070913; JP 2009535043 A 20070913; US 30829007 A 20070913