

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication
EP 1446575 B1 20080319 (DE)

Application
EP 02758100 A 20020717

Priority
• DE 0202611 W 20020717
• DE 10155679 A 20011113

Abstract (en)
[origin: DE10155679A1] The invention relates to a fuel injection valve for internal combustion engines, comprising a housing (1) having a first body (3) and a second body (7), one of the bearing surfaces (103, 107) of said bodies being located at least almost adjacent to one another and said bodies being pressed against one another by a threaded sleeve (10). The threaded sleeve (10) engages with an inner thread (42) in an outer thread (8) on the first body (3). The contact surface (32) of said sleeve is located on a bearing surface (34) of the second body (7), wherein the threaded sleeve (10) has at least an almost cylindrical configuration and surrounds both bodies (3, 7) in the area of the bearing surface (103, 107). A large portion of the length of the surface of the outer jacket of said threaded sleeve (10) has an outer contour in which a screwing tool can engage so that a tangential force can be exerted on the threaded sleeve (10) with said screwing tool.
[origin: DE10155679A1] The valve has a casing (1) with first body (3) and second body (7) pressed to each other by a screw shell (10) screwed on the first one and pressing on the second. The screw shell has an external outline for the greater part of its length which is suitable for a screw tool to be fitted so that it can exert tangential force on the shell.

IPC 8 full level
B23P 19/06 (2006.01); **B25B 13/06** (2006.01); **B25B 13/48** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP US)
B25B 13/06 (2013.01 - EP US); **B25B 13/065** (2013.01 - EP US); **B25B 13/48** (2013.01 - EP US); **B25B 13/481** (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 61/1806** (2013.01 - EP US); **F02M 2200/8076** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
DE 10155679 A1 20030528; DE 50211930 D1 20080430; EP 1446575 A1 20040818; EP 1446575 B1 20080319; JP 2005510657 A 20050421; JP 4160903 B2 20081008; US 2004104284 A1 20040603; US 6895938 B2 20050524; WO 03046366 A1 20030605

DOCDB simple family (application)
DE 10155679 A 20011113; DE 0202611 W 20020717; DE 50211930 T 20020717; EP 02758100 A 20020717; JP 2003547777 A 20020717; US 46621003 A 20031215