

Title (en)

HOLD-DOWN METAL PLATE FOR SECURING A FUEL INJECTION VALVE

Title (de)

NIEDERHALTEBLECH ZUR BEFESTIGUNG EINES BRENNSTOFFEINSPRITZVENTILS

Title (fr)

TOLE DE RETENUE PERMETTANT DE FIXER UNE SOUPAPE D'INJECTION DE CARBURANT

Publication

EP 1364120 A1 20031126 (DE)

Application

EP 02719633 A 20020221

Priority

- DE 0200643 W 20020221
- DE 10108190 A 20010221

Abstract (en)

[origin: DE10108190A1] A hold-down metal plate for securing a fuel injection valve in a receiving opening of a cylinder head of a mixture-compressing internal combustion engine, comprising a fixing hole (2) which is penetrated by a fixing element which fixes the hold-down metal plate (1) to the cylinder head and on whose opposite end of the hold-down metal plate (1) a receiving opening (3) for receiving a fuel injection valve is disposed, said receiving opening (3) being divided by an introducing recess and being defined by a first and second fork end (6, 7) exerting a force upon the fuel injection valve, pressing the fuel injection valve against a pressure shoulder in the receiving opening of the cylinder head. The first and second fork end (6, 7) respectively have an undulated curvature, when seen from a cross-sectional view, which is oriented towards the fuel injection valve, a respective radius (R2) of the undulated curvature forming a bearing surface (13, 14).

IPC 1-7

F02M 61/14

IPC 8 full level

F02M 51/02 (2006.01); **F02M 61/14** (2006.01)

CPC (source: EP KR US)

F02M 61/14 (2013.01 - EP KR US)

Citation (search report)

See references of WO 02066821A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

DE 10108190 A1 20020829; DE 50205650 D1 20060406; EP 1364120 A1 20031126; EP 1364120 B1 20060118; JP 2004518852 A 20040624; JP 4092204 B2 20080528; KR 100840521 B1 20080624; KR 20020086957 A 20021120; US 2003154960 A1 20030821; US 6769408 B2 20040803; WO 02066821 A1 20020829

DOCDB simple family (application)

DE 10108190 A 20010221; DE 0200643 W 20020221; DE 50205650 T 20020221; EP 02719633 A 20020221; JP 2002566112 A 20020221; KR 20027013979 A 20021018; US 25832103 A 20030314