

Title (en)

Method to manufacture a SEAL BETWEEN ELEMENTS OF A FUEL-INJECTION NOZZLE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

Verfahren zum Herstellen einer DICHTUNG ZWISCHEN ELEMENTEN EINER KRAFTSTOFFEINSPRITZDÜSE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

Procédé de fabrication d'un ELEMENT D'ETANCHEITE PLACE ENTRE DES ELEMENTS D'UN INJECTEUR DE CARBURANT DESTINE A UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1362181 B1 20050420 (DE)**

Application

**EP 02708204 A 20020204**

Priority

- DE 0200400 W 20020204
- DE 10105368 A 20010206

Abstract (en)

[origin: WO02063159A1] The invention relates to a fuel-injection nozzle for an internal combustion engine. Said nozzle comprises a nozzle body (2), in which a nozzle needle (10) with a stop (34) is positioned so that it can be displaced, and a nozzle holder (6), in which a pressure pin (16) is displaceably mounted. A disc-shaped stop element (26) is provided in a zone between the nozzle body (2) and the nozzle holder (6). The nozzle body (2) and the nozzle holder (6) are axially braced against one another in such a way that the stop element (26) forms a first sealing surface (30), which lies adjacent to one section (23) of the nozzle holder and a second sealing surface (31), which lies adjacent to one section (24) of the nozzle body. Both the first and second sealing surfaces (30, 31) respectively have at least one cavity (36), which is punched, drilled and/or stamped.

IPC 1-7

**F02M 61/16**; **F02M 61/10**

IPC 8 full level

**F02M 61/10** (2006.01); **F02M 61/16** (2006.01); **F02M 47/02** (2006.01)

CPC (source: EP US)

**F02M 61/10** (2013.01 - EP US); **F02M 61/16** (2013.01 - EP US); **F02M 61/168** (2013.01 - EP US); **F02M 47/02** (2013.01 - EP US); **F02M 2200/16** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

**WO 02063159 A1 20020815**; DE 10105368 A1 20020829; DE 50202841 D1 20050525; EP 1362181 A1 20031119; EP 1362181 B1 20050420; US 2004021012 A1 20040205; US 7007869 B2 20060307

DOCDB simple family (application)

**DE 0200400 W 20020204**; DE 10105368 A 20010206; DE 50202841 T 20020204; EP 02708204 A 20020204; US 63263303 A 20030801