

Title (en)

METHOD FOR PRODUCING A NOZZLE BODY FOR A FLUID INJECTION VALVE, AND FLUID INJECTION VALVE

Title (de)

VERFAHREN ZUM HERSTELLEN EINES DÜSENKÖRPERS FÜR EIN FLUIDEINSPRITZVENTIL UND FLUIDEINSPRITZVENTIL

Title (fr)

PROCÉDÉ DE FABRICATION D'UN CORPS DE BUSE POUR UNE SOUPAPE D'INJECTION DE FLUIDE ET SOUPAPE D'INJECTION DE FLUIDE

Publication

**EP 3329115 B1 20190807 (DE)**

Application

**EP 16734610 A 20160629**

Priority

- DE 102015214306 A 20150729
- EP 2016065131 W 20160629

Abstract (en)

[origin: WO2017016778A1] A method for producing a nozzle body (1) for a fluid injection valve comprises provision of a nozzle body blank with a nozzle body tip (20) and introduction of a nozzle body recess (7), starting from a first axial end (3), into the nozzle body blank and, as a result, formation of a wall (9). Furthermore, the method comprises provision of geometry data of at least one injection hole (17) to be provided, with an inner opening (18) and an outer opening (19). Furthermore, the method comprises determining a height (H) of a blind hole stage (15) of a blind hole (13) to be formed in a manner which is dependent on a predefined fluid penetration. Furthermore, the method comprises adaptation of a part of the shape of an inner face of the wall (9) and, as a result, formation of the blind hole (13) with the blind hole stage (15) at the determined height (H), and introduction of the at least one injection hole (17) with the provided geometry data, with the result that the at least one injection hole (17) penetrates the wall (9).

IPC 8 full level

**F02M 61/16** (2006.01); **F02M 61/10** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR US)

**F02M 61/10** (2013.01 - US); **F02M 61/168** (2013.01 - EP KR US); **F02M 61/18** (2013.01 - EP US); **F02M 61/1833** (2013.01 - EP KR US); **F02M 61/1846** (2013.01 - EP KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102015214306 A1 20170202**; CN 107850028 A 20180327; CN 107850028 B 20210608; EP 3329115 A1 20180606; EP 3329115 B1 20190807; EP 3329115 B8 20191218; KR 102113932 B1 20200521; KR 20180034625 A 20180404; US 2018149128 A1 20180531; WO 2017016778 A1 20170202

DOCDB simple family (application)

**DE 102015214306 A 20150729**; CN 201680044448 A 20160629; EP 16734610 A 20160629; EP 2016065131 W 20160629; KR 20187005886 A 20160629; US 201815882499 A 20180129