

Title (en)

FUEL INJECTOR FOR THE METERED DISPENSING OF FUEL

Title (de)

KRAFTSTOFFINJEKTOR ZUR DOSIERTEN ABGABE VON KRAFTSTOFF

Title (fr)

INJECTEUR DE CARBURANT PERMETTANT UNE DISTRIBUTION DOSÉE DE CARBURANT

Publication

**EP 4248078 A1 20230927 (DE)**

Application

**EP 21790115 A 20211006**

Priority

- DE 102020214481 A 20201118
- EP 2021077483 W 20211006

Abstract (en)

[origin: WO2022106110A1] The invention relates to a fuel injector for the metered dispensing of fuel, having a housing (1) that comprises a retaining body (2) and a nozzle body (3), wherein a pressure chamber (4) that can be filled with fuel at high pressure is formed in the nozzle body (3), in which pressure chamber a movable valve element (7) for opening and closing an injection opening (9) formed in the nozzle body (3) is arranged. The nozzle body (3) has a cylindrical shaft portion (18), on the end of which the injection opening (9) is formed. By means of a clamping nut (4), which, with an inwardly protruding lip (15), engages behind a clamping shoulder (17) on the nozzle body (3) and which is screwed into a thread on the retaining body (2), the nozzle body (3) is braced against the retaining body (2). The shaft portion (18) is surrounded by a heat-conducting sleeve (20), which engages in an undercut (22; 122; 222; 322) on the inner side (16) of the lip (15) on the clamping nut (4) and which forms a thermal contact with the clamping nut (4).

IPC 8 full level

**F02M 53/04** (2006.01); **F02M 61/14** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP KR)

**F02M 53/043** (2013.01 - EP KR); **F02M 61/14** (2013.01 - EP KR); **F02M 61/168** (2013.01 - EP KR); **F02M 2200/8084** (2013.01 - KR)

Citation (search report)

See references of WO 2022106110A1

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022106110 A1 20220527**; CN 116457566 A 20230718; DE 102020214481 A1 20220519; EP 4248078 A1 20230927; KR 20230104717 A 20230710

DOCDB simple family (application)

**EP 2021077483 W 20211006**; CN 202180077672 A 20211006; DE 102020214481 A 20201118; EP 21790115 A 20211006; KR 20237019969 A 20211006