

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 3583310 B1 20220309 (DE)

Application
EP 18700107 A 20180108

Priority
• DE 102017202686 A 20170220
• EP 2018050315 W 20180108

Abstract (en)
[origin: WO2018149555A1] The invention relates to a fuel injector (1) for injecting fuel into the combustion chamber of an internal combustion engine, said fuel injector (1) comprising a nozzle body (5). A pressure chamber (8) is formed in the nozzle body (5), which is supplied with pressurized fuel via a feed bore (13). A longitudinally movable nozzle needle (7), which opens or closes at least one injection opening (9), is arranged in the pressure chamber (8). A cooling group (100) is arranged so as to at least partially surround the nozzle body (5). The cooling group (100) comprises a cooling ring (101) which delimits a plurality, preferably more than 20, flow channels (200) that can be flown through for cooling the nozzle body (5).

IPC 8 full level
F02M 53/04 (2006.01)

CPC (source: EP KR)
F02M 53/043 (2013.01 - EP KR); **F02M 2200/803** (2013.01 - KR); **F02M 2200/855** (2013.01 - KR)

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 102017202686 A1 20180823; CN 110325728 A 20191011; CN 110325728 B 20211105; EP 3583310 A1 20191225; EP 3583310 B1 20220309; JP 2020507033 A 20200305; JP 6802931 B2 20201223; KR 102399897 B1 20220520; KR 20190116443 A 20191014; WO 2018149555 A1 20180823

DOCDB simple family (application)
DE 102017202686 A 20170220; CN 201880012766 A 20180108; EP 18700107 A 20180108; EP 2018050315 W 20180108; JP 2019542454 A 20180108; KR 20197027058 A 20180108