

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 3286428 B1 20210818 (DE)

Application
EP 16707116 A 20160301

Priority
• DE 102015207307 A 20150422
• EP 2016054285 W 20160301

Abstract (en)
[origin: WO2016169682A1] The invention relates to a fuel injector (10) having an injector housing (10), in which a nozzle chamber (6) is configured which can be supplied with pressurized fuel via a feed line (7) which is configured in the injector housing (10), wherein a longitudinally movable nozzle needle (2) which opens or closes at least one spray hole (9) is arranged in the nozzle chamber (6), and having a load measuring element (17) for at least indirect detection of a pressure in a pressure chamber (14) which is configured in the injector housing (10). The pressure chamber (14) can be connected hydraulically to the feed line (7). The load measuring element (17) is arranged in a measuring chamber (16) which is configured in the injector housing (10), wherein the measuring chamber (16) is separated from the pressure chamber (14) by way of a diaphragm-like intermediate wall (13). The load measuring element (17) supports the intermediate wall (13).

IPC 8 full level
F02M 57/00 (2006.01)

CPC (source: EP US)
F02M 57/005 (2013.01 - EP US); **F02M 2200/24** (2013.01 - EP US); **F02M 2200/244** (2013.01 - EP US); **F02M 2200/247** (2013.01 - EP US)

Citation (examination)
• EP 3076002 A1 20161005 - BOSCH GMBH ROBERT [DE]
• EP 3032088 A1 20160615 - BOSCH GMBH ROBERT [DE]
• EP 3026254 A1 20160601 - BOSCH GMBH ROBERT [DE]

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)
WO 2016169682 A1 20161027; DE 102015207307 A1 20161027; EP 3286428 A1 20180228; EP 3286428 B1 20210818;
JP 2018517867 A 20180705; JP 6636043 B2 20200129; US 10330063 B2 20190625; US 2018087480 A1 20180329

DOCDB simple family (application)
EP 2016054285 W 20160301; DE 102015207307 A 20150422; EP 16707116 A 20160301; JP 2017555256 A 20160301;
US 201615567025 A 20160301