

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 3768962 B1 20221221 (DE)

Application
EP 19713386 A 20190319

Priority
• DE 102018204492 A 20180323
• EP 2019056766 W 20190319

Abstract (en)
[origin: WO2019179976A1] The invention relates to a fuel injector (10; 10a), in particular a common rail injector, comprising a switching valve (15) for at least indirectly controlling the stroke movement of a nozzle needle (16), wherein: the switching valve (15) has a valve piece (14) having a valve seat (26); the valve piece (14) is arranged a retaining body (12; 12a) and is clamped axially toward the retaining body (12; 12a) by means of a clamping element (42), in particular by means of a valve clamping screw; and the valve piece (14) is arranged so as to be sealed to the retaining body (12; 12a) against a high-pressure region (38) and for this purpose has a first sealing surface (53), which is formed on the valve piece (14) and radially extends around a longitudinal axis (18) of the valve piece (14) and cooperates with a second sealing surface (54; 54a).

IPC 8 full level
F02M 47/02 (2006.01); **F02M 61/04** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 61/04** (2013.01); **F02M 61/168** (2013.01); **F02M 2200/03** (2013.01); **F02M 2200/16** (2013.01); **F02M 2200/803** (2013.01)

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 2019179976 A1 20190926; CN 111902627 A 20201106; CN 111902627 B 20221227; DE 102018204492 A1 20190926; EP 3768962 A1 20210127; EP 3768962 B1 20221221

DOCDB simple family (application)
EP 2019056766 W 20190319; CN 201980021351 A 20190319; DE 102018204492 A 20180323; EP 19713386 A 20190319