

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFEINSPRITZER

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 3545186 B1 20210106 (FR)

Application
EP 17797971 A 20171121

Priority
• FR 1661416 A 20161123
• EP 2017079954 W 20171121

Abstract (en)
[origin: WO2018095922A1] A fuel injector (10) arranged to deliver fuel to an engine, the injector comprising: an injector body (16) extending along a longitudinal axis (X) comprising a bore (26) and a high-pressure chamber (56), and a needle (14) arranged so as to slide in the bore (26) between a top guide (20) and a bottom guide (21), a piston (22) comprising a magnetic armature (48) and a shaft (50) extending along the longitudinal axis (X), an actuator (18) comprising a fixed solenoid (44) generating, when electrically powered, an opening force on the magnetic armature (48), and a return spring (58) generating a closing force on the piston (22) when the solenoid (44) is not powered, characterised in that the injector (10) comprises a high-pressure channel (24), and in that the injector (10) also comprises a force amplifier (56) arranged between the shaft (50) and the needle (14).

IPC 8 full level
F02M 61/10 (2006.01); **F02M 51/06** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)
F02M 51/0682 (2013.01); **F02M 61/10** (2013.01); **F02M 61/20** (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)
FR 3059052 A1 20180525; FR 3059052 B1 20190621; EP 3545186 A1 20191002; EP 3545186 B1 20210106; WO 2018095922 A1 20180531

DOCDB simple family (application)
FR 1661416 A 20161123; EP 17797971 A 20171121; EP 2017079954 W 20171121