

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
INJECTEUR DE CARBURANT

Publication
EP 3020956 A1 20160518 (EN)

Application
EP 15191484 A 20151026

Priority
GB 201420051 A 20141111

Abstract (en)
The present disclosure relates to a fuel injector (101) for injecting fuel into a combustion chamber of an internal combustion engine. The fuel injector (101) includes an injector body (102), an injector nozzle (103) and an injector needle (104). The injector needle (104) has a needle valve (107) for cooperating with a nozzle seat (106) formed in the injector nozzle (103). At least one injection aperture (108) is provided in the injector nozzle (103). The injector needle (104) is movable within the injector nozzle (103) to control the injection of fuel through said at least one injection aperture (108). A high pressure supply line (122) is provided for supplying high pressure fuel to the injector nozzle (103). The fuel injector (101) also includes a high pressure accumulator (125) in fluid communication with the high pressure supply line (122).

IPC 8 full level
F02M 47/02 (2006.01); **F02M 55/00** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 55/008** (2013.01); **F02M 2200/28** (2013.01); **F02M 2200/315** (2013.01); **F02M 2200/40** (2013.01); **F02M 2200/8076** (2013.01)

Citation (search report)
• [XY] WO 02090753 A1 20021114 - BOSCH GMBH ROBERT [DE], et al
• [Y] DE 102005034879 A1 20070201 - SIEMENS AG [DE]
• [XY] WO 02090755 A1 20021114 - BOSCH GMBH ROBERT [DE], et al
• [Y] US 2005173564 A1 20050811 - COOKE MICHAEL P [GB]
• [X] US 2006081722 A1 20060420 - KATO MASAOKI [JP], et al

Cited by
GB2564664A; WO2018059809A1

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

DOCDB simple family (publication)
EP 3020956 A1 20160518; EP 3020956 B1 20190410; GB 201420051 D0 20141224

DOCDB simple family (application)
EP 15191484 A 20151026; GB 201420051 A 20141111