

Title (en)
FUEL PUMP

Title (de)
KRAFTSTOFFPUMPE

Title (fr)
POMPE À CARBURANT

Publication
EP 3001023 B1 20180829 (DE)

Application
EP 15186812 A 20150925

Priority
DE 102014014344 A 20140927

Abstract (en)
[origin: CN105464870A] A fuel pump, in particular a high-pressure fuel pump of a common-rail fuel system, has a pump piston guided in a pump cylinder, wherein, in an area of the pump cylinder within a gap guiding the pump piston, fuel for lubricating and for cooling when necessary is configured with an upper charge groove connected to a first pressure level through at least one charge hole and a lower discharge groove connected to a second pressure level through at least one discharge hole, wherein, a guide sheet for the pump piston is configured between an upper edge of the lower discharge groove and a lower edge of the upper charge groove, and wherein the charge holes leading to the upper charge groove or each charge hole and the lower edge of the upper charge groove adjacently feed into the upper charge groove.

IPC 8 full level
F02M 55/00 (2006.01); **F02M 53/00** (2006.01); **F02M 59/44** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 53/00 (2013.01); **F02M 55/00** (2013.01); **F02M 59/442** (2013.01); **F02M 63/0001** (2013.01); **F02M 2200/02** (2013.01); **F02M 2200/06** (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)
EP 3001023 A1 20160330; EP 3001023 B1 20180829; CN 105464870 A 20160406; CN 105464870 B 20190705; DE 102014014344 A1 20160331; JP 2016070278 A 20160509; JP 6552932 B2 20190731; KR 102244311 B1 20210426; KR 20160037780 A 20160406

DOCDB simple family (application)
EP 15186812 A 20150925; CN 201510619952 A 20150925; DE 102014014344 A 20140927; JP 2015188189 A 20150925; KR 20150135523 A 20150924