

Title (en)

HIGH-PRESSURE FUEL PUMP OR ENGINE VALVE

Title (de)

KRAFTSTOFFHOCHDRUCKPUMPE ODER MOTORVENTIL

Title (fr)

POMPE À CARBURANT HAUTE PRESSION OU SOUPAPE DE MOTEUR

Publication

EP 3039281 B1 20170920 (DE)

Application

EP 15733402 A 20150624

Priority

- DE 102014216173 A 20140814
- EP 2015064309 W 20150624

Abstract (en)

[origin: WO2016023665A1] The invention relates to a high-pressure fuel pump (16) for applying a fuel with pressure, wherein a piston (20) and a plunger (10) are provided, said piston being arranged such that it can move between a first top dead centre position (60) and a second bottom dead centre position (62) along a piston axis (24), and said plunger having a crosspiece (36), arranged substantially perpendicular to a plunger axis (40), for transmitting kinetic energy from a plunger drive (66) to the piston (20) in a contact region (68) of a crosspiece surface (70) and an end region (42) of the piston (20). In the contact region (68), the piston (20) has a dome-shaped end region (74) and the crosspiece (36) has a dome-shaped recess (72)

IPC 8 full level

F02M 59/10 (2006.01)

CPC (source: CN EP KR US)

F01L 3/20 (2013.01 - US); **F02M 59/102** (2013.01 - CN EP KR US); **F04B 1/0408** (2013.01 - EP US); **F04B 1/0426** (2013.01 - EP US); **F04B 1/0435** (2013.01 - EP US); **F04B 9/042** (2013.01 - KR US); **F04B 19/22** (2013.01 - US); **F04B 53/144** (2013.01 - US); **F02M 2200/02** (2013.01 - CN EP KR US); **F02M 2200/03** (2013.01 - CN EP KR US)

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)

DE 102014216173 A1 20160218; **DE 102014216173 B4 20160630**; CN 105745435 A 20160706; CN 105745435 B 20180427; EP 3039281 A1 20160706; EP 3039281 B1 20170920; JP 2017501339 A 20170112; JP 6218963 B2 20171025; KR 101891012 B1 20180822; KR 20160091420 A 20160802; US 10294905 B2 20190521; US 2017159628 A1 20170608; WO 2016023665 A1 20160218

DOCDB simple family (application)

DE 102014216173 A 20140814; CN 201580002794 A 20150624; EP 15733402 A 20150624; EP 2015064309 W 20150624; JP 2016555927 A 20150624; KR 20167017380 A 20150624; US 201515031513 A 20150624