

Title (en)

HIGH-PRESSURE FUEL PUMP HAVING AN OUTLET VALVE

Title (de)

KRAFTSTOFFHOCHDRUCKPUMPE, MIT EINEM AUSLASSVENTIL

Title (fr)

POMPE À CARBURANT HAUTE PRESSION, POURVUE D'UNE SOUPAPE D'ÉVACUATION

Publication

EP 3027885 A1 20160608 (DE)

Application

EP 14731265 A 20140618

Priority

- DE 102013215275 A 20130802
- EP 2014062806 W 20140618

Abstract (en)

[origin: WO2015014536A1] The invention relates to a high-pressure fuel pump (10) comprising an outlet valve (32), a valve ball (38), a valve spring (40) acting on the valve ball (38) in the closing direction, and a stop body (60) for the valve ball (38), said stop body having a stop section (66) that limits the opening stroke of the valve ball (38), and the valve spring (40) being supported by the stop body (60). The stop body (60) has a cut-out section (62) which at least partially accommodates the valve spring (40) and the radial inner periphery of which forms a guide for the valve spring (40).

IPC 8 full level

F02M 59/46 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

F02M 59/462 (2013.01 - EP US); **F02M 63/0054** (2013.01 - EP US); **F02M 2200/50** (2013.01 - EP US)

Citation (search report)

See references of WO 2015014536A1

Cited by

US11339688B2

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)

WO 2015014536 A1 20150205; CN 105637212 A 20160601; CN 105637212 B 20180928; DE 102013215275 A1 20150205; EP 3027885 A1 20160608; EP 3027885 B1 20171108; KR 102179022 B1 20201116; KR 20160034325 A 20160329; US 2016169174 A1 20160616; US 9828959 B2 20171128

DOCDB simple family (application)

EP 2014062806 W 20140618; CN 201480043668 A 20140618; DE 102013215275 A 20130802; EP 14731265 A 20140618; KR 20167002793 A 20140618; US 201414909730 A 20140618