

Title (en)
FUEL PUMP

Title (de)
KRAFTSTOFFPUMPE

Title (fr)
POMPE À CARBURANT

Publication
EP 3077656 A1 20161012 (DE)

Application
EP 15754184 A 20150820

Priority
• DE 102014220746 A 20141014
• EP 2015069167 W 20150820

Abstract (en)
[origin: WO2016058736A1] The present invention relates to a fuel pump (1), at least comprising: a pump piston (2), a camshaft (4) which has at least one cam (6), a roller tappet which is arranged between the pump piston (2) and the cam (6) and has a tappet body (8) and a roller (9) which is held thereon rotatably, wherein the pump piston (2) and the tappet body (8) are movement-coupled with regard to movements in directions which are parallel to the piston longitudinal centre line (10), wherein the roller (9) is in contact with the cam (6), wherein a geometric reference line (20) which extends the piston longitudinal centre line (10) rectilinearly intersects the geometric rotational axis (11) of the roller (9), and wherein the tappet body (8) has a tappet body longitudinal centre line (13) which is parallel to the reference line (20). It is proposed for the advantageous development that the tappet body longitudinal centre line (13) runs at a lateral spacing (a) from the geometric reference line (20) in a projected view which is oriented parallel to the geometric rotational axis (11) of the roller (9).

IPC 8 full level
F02M 59/10 (2006.01)

CPC (source: CN EP KR US)
F02M 59/02 (2013.01 - KR); **F02M 59/102** (2013.01 - CN EP KR US); **F02M 59/44** (2013.01 - US); **F01L 2307/00** (2020.05 - EP US); **F02M 2200/80** (2013.01 - US); **F02M 2200/8015** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2016058736A1

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)
DE 102014220746 B3 20160211; CN 106062354 A 20161026; CN 106062354 B 20180206; EP 3077656 A1 20161012; EP 3077656 B1 20180124; JP 2017514053 A 20170601; JP 6161833 B2 20170712; KR 101697770 B1 20170118; KR 20160107358 A 20160913; US 10054090 B2 20180821; US 2018171950 A1 20180621; WO 2016058736 A1 20160421

DOCDB simple family (application)
DE 102014220746 A 20141014; CN 201580011637 A 20150820; EP 15754184 A 20150820; EP 2015069167 W 20150820; JP 2016554847 A 20150820; KR 20167024274 A 20150820; US 201515127524 A 20150820