

Title (en)

PISTON FUEL PUMP FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

KOLBEN-KRAFTSTOFFPUMPE FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

POMPE À CARBURANT À PISTON POUR MOTEUR A COMBUSTION INTERNE

Publication

EP 3234364 A1 20171025 (DE)

Application

EP 15805168 A 20151204

Priority

- DE 102014226316 A 20141217
- EP 2015078702 W 20151204

Abstract (en)

[origin: WO2016096485A1] The invention relates to a piston fuel pump (18) for an internal combustion engine comprising a pump cylinder (40) and a pump piston (28) which can be axially displaced in the pump cylinder (40) and comprising a working chamber (34) defined by the pump piston (18). A seal (46) is provided on the pump cylinder (28) which seals the working chamber (34) counter to a low pressure region, characterized in that the seal (46) seals the working chamber-sided end section (42) of the pump piston (18) counter to the working chamber (34).

IPC 8 full level

F02M 59/44 (2006.01); **F04B 53/14** (2006.01); **F16J 15/328** (2016.01)

CPC (source: CN EP KR US)

F02M 59/442 (2013.01 - CN EP KR US); **F02M 59/445** (2013.01 - US); **F04B 1/0408** (2013.01 - CN EP KR US); **F04B 1/0448** (2013.01 - CN EP KR US); **F04B 53/143** (2013.01 - CN EP KR US); **F16J 1/008** (2013.01 - CN EP KR US); **F16J 15/3276** (2013.01 - CN EP KR US); **F02M 2200/8046** (2013.01 - CN EP KR US); **F02M 2200/8061** (2013.01 - CN EP KR US); **F02M 2200/9015** (2013.01 - CN EP KR US)

Citation (search report)

See references of WO 2016096485A1

Citation (examination)

DE 102008041176 A1 20100218 - BOSCH GMBH ROBERT [DE]

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 102014226316 A1 20160623; CN 107110131 A 20170829; EP 3234364 A1 20171025; JP 2017538892 A 20171228; JP 6472523 B2 20190220; KR 20170093853 A 20170816; US 10288025 B2 20190514; US 2018180006 A1 20180628; WO 2016096485 A1 20160623

DOCDB simple family (application)

DE 102014226316 A 20141217; CN 201580069468 A 20151204; EP 15805168 A 20151204; EP 2015078702 W 20151204; JP 2017532631 A 20151204; KR 20177016637 A 20151204; US 201515535331 A 20151204