

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 À COMBUSTION INTERNE

Publication

EP 3234343 B1 20201202 (DE)

Application

EP 15805167 A 20151204

Priority

- DE 102014226304 A 20141217
- EP 2015078694 W 20151204

Abstract (en)

[origin: WO2016096483A1] 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) is applied directly to the pump piston (28) by means of an injection moulding method.

IPC 8 full level

F02M 59/44 (2006.01); **F04B 53/14** (2006.01); **F16J 15/16** (2006.01); **F16J 15/328** (2016.01)

CPC (source: CN EP KR US)

F02M 59/442 (2013.01 - CN EP KR US); **F04B 1/0408** (2013.01 - EP KR US); **F04B 1/0448** (2013.01 - EP KR US);
F04B 53/143 (2013.01 - CN EP KR US); **F02M 2200/8046** (2013.01 - CN EP KR US); **F02M 2200/8061** (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 102014226304 A1 20160623; CN 107110096 A 20170829; EP 3234343 A1 20171025; EP 3234343 B1 20201202;
JP 2017538891 A 20171228; JP 6472522 B2 20190220; KR 20170093854 A 20170816; US 10400727 B2 20190903;
US 2017306912 A1 20171026; WO 2016096483 A1 20160623

DOCDB simple family (application)

DE 102014226304 A 20141217; CN 201580069523 A 20151204; EP 15805167 A 20151204; EP 2015078694 W 20151204;
JP 2017532630 A 20151204; KR 20177016638 A 20151204; US 201515527827 A 20151204