

Title (en)

A FUEL PUMP FOR SUPPLYING FUEL TO AN INTERNAL COMBUSTION PISTON ENGINE

Title (de)

BRENNSTOFFPUMPE ZUR KRAFTSTOFFVERSORGUNG EINES HUBKOLBENVERBRENNUNGSMOTORS

Title (fr)

POMPE À CARBURANT DESTINÉE À ALIMENTER EN CARBURANT UN MOTEUR À PISTON À COMBUSTION INTERNE

Publication

EP 3601778 A1 20200205 (EN)

Application

EP 17717208 A 20170329

Priority

FI 2017050218 W 20170329

Abstract (en)

[origin: WO2018178502A1] Invention relates to a fuel pump (10) for supplying fuel to an internal combustion piston engine, comprising a body (18) and a cylindrical space (30) in the body having a central axis (32), a piston member (28) arranged to reciprocate in the cylindrical space (30), the piston member is provided with a sleeve member (46) having a closed end arranged to the second space section (30") such that an annular space is provided between the sleeve member (46) and the piston member (28), where the pump comprises an annular gap circumscribing the piston member (28) at least partially, and where the sleeve member is arranged to extend into the annular gap where a third space section (60) is arranged bordered by the sleeve member (46), and where a lubrication oil supply channel (62) and a lubrication oil discharge channel (64) are connected to the third space section (60).

IPC 8 full level

F02M 59/44 (2006.01); **F02M 55/00** (2006.01); **F02M 59/10** (2006.01); **F02M 63/00** (2006.01); **F04B 1/04** (2020.01); **F04B 39/02** (2006.01); **F04B 53/18** (2006.01)

CPC (source: EP KR)

F02M 55/007 (2013.01 - EP KR); **F02M 59/102** (2013.01 - KR); **F02M 59/44** (2013.01 - EP); **F02M 59/442** (2013.01 - KR); **F02M 63/0001** (2013.01 - EP KR); **F04B 1/0404** (2013.01 - KR); **F04B 1/0443** (2013.01 - EP KR); **F04B 39/02** (2013.01 - EP KR); **F04B 53/18** (2013.01 - EP KR); **F02M 59/102** (2013.01 - EP); **F02M 59/442** (2013.01 - EP)

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 2018178502 A1 20181004; CN 110709598 A 20200117; CN 110709598 B 20210806; EP 3601778 A1 20200205; KR 102216495 B1 20210216; KR 20190124811 A 20191105

DOCDB simple family (application)

FI 2017050218 W 20170329; CN 201780091343 A 20170329; EP 17717208 A 20170329; KR 20197031752 A 20170329