

Title (en)

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

Title (de)

KRAFTSTOFFPUMPE ZUR ZUFÜHRUNG VON KRAFTSTOFF AN EINEN KOLBENVERBRENNUNGSMOTOR

Title (fr)

POMPE À CARBURANT PERMETTANT D'ALIMENTER UN MOTEUR À PISTON À COMBUSTION INTERNE EN CARBURANT

Publication

EP 3601776 A1 20200205 (EN)

Application

EP 17716563 A 20170329

Priority

FI 2017050216 W 20170329

Abstract (en)

[origin: WO2018178500A1] 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 (18) having a central axis (32) a piston member (28) arranged to reciprocate in the cylindrical space (30), wherein the space (30) is bordered by a first end (28') of the piston member (28) forming a first pumping chamber (16) of the pump (10) configured to pump the fuel as the piston member (28) reciprocates in the space (30), and wherein cylindrical space (30) comprises a first space section (30') having a first diameter (D1) and a second space section (30'') having a second diameter (D2) greater than the first diameter (D1). The second space section (30'') is provided with a second pumping chamber (16') of the fuel pump (10) configured to pump fuel material entered via the first sealing gap (34) into the second space section (30''), as the piston reciprocates in the space (30), and the pump (10) is provided with a vent flow path (36) connecting the second pumping chamber (16') to outside of the body (18) for allowing gas admission into the second pumping chamber (16') and a discharge flow path (38) connecting the second pumping chamber (16') of the second space section (30'') to outside of the body (18) for transferring fuel material entered into the second pumping chamber (16') of second space section (30''), away from second pumping chamber (16').

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

See references of WO 2018178500A1

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