

Title (en)

UNIT FOR PUMPING FUEL FROM A FUEL TANK TO THE INTERNAL COMBUSTION ENGINE OF A MOTOR VEHICLE

Title (de)

AGGREGAT ZUM FÖRDERN VON KRAFTSTOFF AUS EINEM KRAFTSTOFFTANK ZUR BRENNKRAFTMASCHINE EINES KRAFTFAHRZEUGES

Title (fr)

UNITE SERVANT A ACHEMINER DU CARBURANT ENTRE UN RESERVOIR DE CARBURANT ET UN MOTEUR A COMBUSTION INTERNE D'UN VEHICULE AUTOMOBILE

Publication

EP 1537323 B1 20060726 (DE)

Application

EP 03794796 A 20030822

Priority

- DE 0302818 W 20030822
- DE 10240831 A 20020904

Abstract (en)

[origin: WO2004025111A1] In conventional electric fuel pumps, fuel is directly suctioned into a pump part such that the housing and electric motor of the electric fuel pump arranged downstream from the pump part are subjected to a pressure build-up from the pump part. Since modern-day electric fuel pumps operate at comparable high pressures, they must be sealed downstream from the pump part and this requires a considerable amount of effort. In the inventive unit, the sealing requirements vis a vis the housing are significantly reduced, which leads to a significant reduction in production costs. According to the invention, an actuator (15) is to arranged on a suction side (20) of the housing (2), such that fuel is suctioned via an inlet connection (5) of the housing (2) past the actuator (15). As a result, pressure is initially increased in the pump part (14) and the fuel subsequently leaves the unit via an outlet connection (9), whereupon only a small volume of the unit is subjected to comparable high pressure.

IPC 8 full level

F02M 37/08 (2006.01); **F02M 37/10** (2006.01); **F04B 17/04** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP)

F02M 37/08 (2013.01); **F04B 17/048** (2013.01); **F04B 53/16** (2013.01)

Citation (examination)

- DE 19744599 A1 19990415 - VOLKSWAGEN AG [DE]
- US 4213745 A 19800722 - ROBERTS SAMUEL A [GB]
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DE102008000805A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 2004025111 A1 20040325; DE 10240831 A1 20040318; DE 50304378 D1 20060907; EP 1537323 A1 20050608; EP 1537323 B1 20060726; JP 2005537436 A 20051208

DOCDB simple family (application)

DE 0302818 W 20030822; DE 10240831 A 20020904; DE 50304378 T 20030822; EP 03794796 A 20030822; JP 2004534979 A 20030822