

Title (en)

DEVICE FOR DELIVERING FUEL OUT OF A FUEL TANK TO THE INTERNAL COMBUSTION ENGINE OF A MOTOR VEHICLE

Title (de)

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

Title (fr)

DISPOSITIF POUR ACHEMINER DU CARBURANT D'UN RESERVOIR DE CARBURANT AU MOTEUR A COMBUSTION D'UN VEHICULE AUTOMOBILE

Publication

EP 1875063 B1 20090128 (DE)

Application

EP 06708436 A 20060222

Priority

- EP 2006060161 W 20060222
- DE 102005018469 A 20050421

Abstract (en)

[origin: WO2006111435A1] Prior art devices have a sucking jet pump, which is placed inside a storage reservoir and which delivers fuel from a supply reservoir and into the storage reservoir via a suction opening located in the bottom of the storage reservoir. A filter cloth is situated upstream from the suction opening and filters out dirt particles contained in the fuel inside the supply reservoir so that these particles can not impair the operability of valves situated downstream from the suction opening. A drawback exists in that the filter cloth becomes increasingly stopped up when filtering highly impure fuel whereby resulting in an increasing loss in pressure so that, with the same delivery capacity of the delivery pump, increasingly less fuel is delivered into the storage reservoir. The inventive device provides an alternative particle precipitation that has a higher holding capacity for particles than that of the prior art. The invention provides that a number of chambers (24), which are open toward the storage reservoir (2) and which serve for the precipitation of dirt particles contained in the fuel, are placed on and/or inside the bottom (23) of the storage reservoir (2) on the inner side (19) facing the delivery pump (16). The delivery pump (16) is arranged in such a manner that the fuel coming out of the delivery pump (16) flows over the chambers (24).

IPC 8 full level

F02M 37/10 (2006.01); **F02M 37/50** (2019.01)

CPC (source: EP US)

F02M 37/0082 (2013.01 - EP); **F02M 37/025** (2013.01 - EP); **F02M 37/106** (2013.01 - EP US); **F02M 37/50** (2018.12 - EP US); **F02M 37/0058** (2013.01 - EP)

Designated contracting state (EPC)

DE

DOCDB simple family (publication)

WO 2006111435 A1 20061026; BR PI0606448 A2 20090630; CN 101163877 A 20080416; CN 101163877 B 20100421; DE 102005018469 A1 20061102; DE 502006002751 D1 20090319; EP 1875063 A1 20080109; EP 1875063 B1 20090128; RU 2007142646 A 20090527; RU 2397358 C2 20100820

DOCDB simple family (application)

EP 2006060161 W 20060222; BR PI0606448 A 20060222; CN 200680013104 A 20060222; DE 102005018469 A 20050421; DE 502006002751 T 20060222; EP 06708436 A 20060222; RU 2007142646 A 20060222