

Title (en)
DEVICE FOR FEEDING FUEL

Title (de)
VORRICHTUNG ZUM FÖRDERN VON KRAFTSTOFF

Title (fr)
DISPOSITIF D'ACHEMINEMENT DE CARBURANT

Publication
EP 2257706 B1 20150225 (DE)

Application
EP 08872994 A 20081218

Priority
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Abstract (en)
[origin: WO2009106185A1] Devices for feeding fuel are already known which have a storage pot which can be filled by means of a suction jet pump and which has a pot base with an intake opening which opens into an intake chamber of the suction jet pump and through which the suction jet pump sucks in fuel, wherein the intake chamber is fluidically connected to the storage pot via a mixer duct. A non-return valve is provided in the intake opening in order to prevent fuel from flowing back. Considerable flow turbulence occurs within the suction jet pump, which flow turbulence can lead, in particular in the case of heated fuel, referred to as hot petrol, to the formation of gas bubbles. The delivery capacity of the suction jet pump is considerably reduced by the gas bubbles, with the result that under certain operating conditions the storage pot is not sufficiently filled and can run empty. In the device according to the invention, the flow turbulence is reduced. The invention provides that an oblique ramp (20) for guiding the flow with little turbulence is provided at the junction (23) with the mixer duct (16) on the pot base (6) of the storage pot (5) inside the intake chamber (15).

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