

Title (en)
FUEL PUMP AND FUEL SUPPLY SYSTEM FOR AN INTERNAL COMBUSTION ENGINE OF A MOTOR VEHICLE EQUIPPED WITH A FUEL PUMP

Title (de)
KRAFTSTOFFPUMPE UND KRAFTSTOFFVERSORGUNGSANLAGE FÜR EINE BRENNKRAFTMASCHINE EINES KRAFTFAHRZEUGES MIT EINER KRAFTSTOFFPUMPE

Title (fr)
POMPE À CARBURANT ET SYSTÈME D'ALIMENTATION EN CARBURANT POURVU D'UNE POMPE À CARBURANT POUR LE MOTEUR À COMBUSTION INTERNE D'UN V HICULE À MOTEUR

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Application
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Abstract (en)
[origin: WO2006045686A1] The invention relates to a fuel pump for a motor vehicle, which is provided in the form of a side-channel pump and in which two partially ring-shaped channels (21, 22) that encircle concentrically to one another are interconnected by a connecting channel (29). Connections (33, 34) of the connecting channel (29) are placed upon the partially ring-shaped channels (21, 22) so that, at the nominal rotational speed of the fuel pump, the same pressure prevails. When the rotational speed falls below the nominal rotational speed, fuel exits from the radially outer partially ring-shaped channel (22) and enters the radially inner partially ring-shaped channel (21). This ensures a sufficient flow rate through the radially inner partially ring-shaped channel (21).

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