

Title (en)
FUEL SYSTEM FOR INTERNAL COMBUSTION ENGINE AND A METHOD TO LESSEN PRESSURE FLUCTUATIONS IN A FUEL FILTER DEVICE IN A FUEL SYSTEM

Title (de)
KRAFTSTOFFSYSTEM FÜR VERBRENNUNGSMOTOR UND VERFAHREN ZUM VERRINGERN VON DRUCKSCHWANKUNGEN IN EINER KRAFTSTOFFFILTERVORRICHTUNG IN EINEM KRAFTSTOFFSYSTEM

Title (fr)
SYSTÈME DE CARBURANT POUR MOTEUR À COMBUSTION INTERNE ET PROCÉDÉ POUR RÉDUIRE LES FLUCTUATIONS DE PRESSION DANS UN DISPOSITIF DE FILTRE À CARBURANT DANS UN SYSTÈME DE CARBURANT

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Application
EP 15818473 A 20150612

Priority

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- SE 2015050682 W 20150612

Abstract (en)
[origin: WO2016007067A1] The invention relates to a fuel system (4) for an internal combustion engine (2), which fuel system (4) comprises a first fuel tank (20), a fuel filter device (12), arranged between a low pressure pump (22) operated by an electric motor and a high pressure pump (14), and a first fuel conduit (24), through which the low pressure pump (22) is arranged to supply fuel to the fuel filter device (12). Furthermore, a gradually opening and/or closing control valve (30), which opens and/or closes at a predetermined pressure, is arranged upstream of the fuel filter device (12). A recirculation conduit (32) is arranged upstream of the control valve and downstream of the low pressure pump (22), for recirculation of fuel back to the low pressure pump (22), at a supply pressure which exceeds the predetermined opening pressure of the control valve (30). Thanks to the invention, the risk of major pressure fluctuations in the fuel filter device (12) may be reduced. The invention also relates to an internal combustion engine (2) comprising such a fuel system (4), a vehicle (1) comprising such a fuel system (4) and a method to lessen pressure fluctuations in the fuel filter device (12) in such a fuel system (4).

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Citation (search report)

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