

Title (en)
FUEL SYSTEM FOR COMBUSTION ENGINE

Title (de)
BRENNSTOFFVERSORGUNGSSYSTEM FÜR BRENNKRAFTMASCHINE

Title (fr)
SYSTÈME DE CARBURATION POUR MOTEUR À COMBUSTION

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Application
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Abstract (en)
[origin: WO2014178776A1] The invention concerns a fuel system (4) that comprises a first fuel tank (20) and a second fuel tank (22). The fuel is conducted from the first fuel tank (20) to a high-pressure system (19). A main feed pump (26) feeds fuel from the first fuel tank (20) via a second line (40) and a transfer pump (28) feeds fuel from the second fuel tank (22) to the first fuel tank (20) via the first fuel line (36). A first electric motor (M1) drives the main feed pump (26), and is arranged in the first fuel tank (20). The first fuel tank (20) holds a smaller volume than the second fuel tank (22). A fuel return line (13) is arranged so as to return pressurized fuel from the high-pressure system (19) to the first fuel tank (20). The fuel system (4) further comprises an arrangement for controlling the fuel temperature in the first fuel tank (20) by controlling the flow of fuel to the first fuel tank (20). The invention also concerns a combustion engine (20) and a vehicle (1) that contains the system, and a method for controlling a fuel system (4).

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