

Title (en)
METHOD FOR CONTROLLING THE TEMPERATURE OF AN INJECTOR OF AN INJECTION SYSTEM FOR INJECTING FUEL INTO THE COMBUSTION CHAMBER OF AN INTERNAL COMBUSTION ENGINE

Title (de)
VERFAHREN ZUM TEMPERIEREN EINES INJEKTORS EINER EINSPRITZUNG FÜR DAS EINSPRITZEN VON KRAFTSTOFF IN DEN BRENNRAUM EINER BRENNKRAFTMASCHINE

Title (fr)
PROCÉDÉ POUR THERMORÉGULER UN INJECTEUR D'UNE INJECTION POUR L'INJECTION DE CARBURANT DANS LA CHAMBRE DE COMBUSTION D'UN MOTEUR À COMBUSTION INTERNE

Publication
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Application
EP 11702387 A 20110118

Priority
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• AT 2011000031 W 20110118

Abstract (en)
[origin: WO2011088490A1] In a method for controlling the temperature of an injector (9) of an injection system for injecting fuel into the combustion chamber of an internal combustion engine, in which the fuel is pumped by at least one pre-supply pump (3) from a tank to at least one high-pressure pump (4), and the high-pressure fuel pumped by the high-pressure pump (4) is fed to the injector (9), wherein a high-pressure fuel store (14) is arranged inside the injector (9) and the injector (9) has an injection nozzle having a nozzle needle (16) that can be moved axially in a nozzle pre-chamber (18), which nozzle needle is immersed into a control chamber (21) that can be fed with high-pressure fuel, wherein the pressure of the control chamber is controlled by means of a control valve (26) that opens and closes at least one feed or drain channel (22, 24) for fuel, a partial amount of the fuel is branched off as a flushing amount between the pre-supply pump (3) and the high-pressure pump (4) while the internal combustion engine is at standstill and is conducted through a heat exchanger (10) for heating the fuel and is fed to the high-pressure fuel store (14) so that the flushing amount flows through the high-pressure fuel store.

IPC 8 full level
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Citation (search report)
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