

Title (en)
INTERNAL COMBUSTION ENGINE HAVING FUEL INJECTOR DIAGNOSIS

Title (de)
BRENNKRAFTMASCHINE MIT KRAFTSTOFFINJEKTORDIAGNOSE

Title (fr)
MOTEUR À COMBUSTION INTERNE À DIAGNOSTIC D'INJECTEUR DE CARBURANT

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Application
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Abstract (en)
[origin: WO2017075645A1] The invention relates to an internal combustion engine, comprising a control device, at least one injector for liquid fuel, which injector can be controlled by the control device by means of an actuator control signal, wherein a sensor is provided, by means of which a measurement variable of the at least one injector can be measured, wherein the sensor has a signal connection to the control device, and wherein an algorithm is stored in the control device, which algorithm calculates a state of the injector on the basis of input variables and an injector model, compares the state calculated by means of the injector model with a target state, and produces a state signal (C) in accordance therewith, which state signal is characteristic of a change in the state of the injector that occurs during intended use of the injector and/or an unforeseen change in the state of the injector, wherein the input variables comprise at least the actuator control signal (Δt) and the measurement values (y) of the sensor, and a method for operating such an internal combustion engine and for operating an injector of such an internal combustion engine.

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Citation (search report)
See references of WO 2017075645A1

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