Title (en)

DEVICE AND METHOD FOR REGULATING A FUEL VOLUME FLOW IN A LOW-PRESSURE CIRCUIT SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR REGELUNG EINES KRAFTSTOFFVOLUMENSTROMS IN EINEM NIEDERDRUCKKREISLAUFSYSTEM FÜR EINE VERBRENNUNGSKRAFTMASCHINE

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR RÉGULER UN DÉBIT VOLUMIQUE DE CARBURANT DANS UN SYSTÈME DE CIRCULATION À BASSE PRESSION POUR UN MOTEUR À COMBUSTION INTERNE

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Application

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Abstract (en)

[origin: WO2008017547A1] The invention relates to a device for regulating a fuel volume flow in a low-pressure circuit system (1) for an internal combustion engine with a tank (10) for providing the fuel, from which tank (10) the fuel can be supplied via a feed line to a high-pressure pump by means of a feed pump (11), wherein a fuel return line (15) is also provided from the feed line, which fuel return line (15) has a zero-feed throttle (16) for throttling the returned fuel, wherein the fuel return line (15) also comprises, in series with the zero-feed throttle (16), an overflow valve (17) which interrupts the return of the fuel in the fuel return line (15) during the starting phase of the internal combustion engine, and enables the return of the fuel during operation of the internal combustion engine. A device and a method for regulating a fuel volume flow in a low-pressure circuit system (1) are therefore created, which device has a simple construction and permits a reliable starting phase at low feed volumes.

IPC 8 full level

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Citation (search report)

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