

Title (en)

METHOD AND DEVICE FOR THE CYLINDER-SPECIFIC DETERMINATION AND REGULATION OF A FUEL-INJECTION QUANTITY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ZYLINDERINDIVIDUELLEN BESTIMMUNG UND REGELUNG DER KRAFTSTOFFEINSPRITZMENGE

Title (fr)

PROCEDE ET DISPOSITIF POUR DETERMINER ET REGULER LA QUANTITE DE CARBURANT INJECTEE DE MANIERE INDIVIDUELLE DANS CHAQUE CYLINDRE

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Application

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Abstract (en)

[origin: WO2005059341A1] The invention relates to a method for the cylinder-specific determination of an injected quantity of fuel in a multi-cylinder internal combustion engine and to a method and a device for regulating the cylinder-specific injected quantity of fuel. According to the invention, an exhaust-gas pressure of the internal combustion engine is detected with temporal resolution, i.e. dependent on the crankshaft angle and an individual exhaust-gas pressure emission is determined for each cylinder from the resultant values and used to determine the quantity of fuel that is injected in the associated combustion operation. The cylinder-specific actual value of the injected quantity of fuel thus determined can then be used to adjust the quantity of fuel that is to be injected into the corresponding cylinder. The invention can be used for example, for diesel motors of motor vehicles.

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