

Title (en)

METHOD AND DEVICE FOR OPERATING AN INTERNAL COMBUSTION ENGINE WITH A VARIABLE INJECTION PROFILE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETREIBEN EINES VERBRENNUNGSMOTORS MIT EINEM VARIABLEN EINSPRITZPROFIL

Title (fr)

PROCÉDÉ ET DISPOSITIF PERMETTANT DE FAIRE FONCTIONNER UN MOTEUR À COMBUSTION INTERNE AVEC UN PROFIL D'INJECTION VARIABLE

Publication

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Application

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Abstract (en)

[origin: WO2017167561A1] The invention relates to a method for operating an internal combustion engine (1) through specification of an injection profile which is defined by adapted injection parameters ( $u^*_{e,k}$ ), having the following steps: – determining steady-state injection parameters ( $u_{e,k}$ ) on the basis of a predefined steady-state injection profile characteristic map; – determining corrective injection parameters ( $\Delta u_{e,k}$ ) on the basis of a predefined corrective injection parameter model, which provides corrective injection parameters ( $\Delta u_{e,k}$ ) as a function of one or more state variables of an air supply system (3) and/or exhaust-gas discharge system (4) of the internal combustion engine (1); – applying the corrective injection parameters ( $\Delta u_{e,k}$ ) to the steady-state injection parameters ( $u_{e,k}$ ) in order to obtain the adapted injection parameters ( $u^*_{e,k}$ ).

IPC 8 full level

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