

Title (en)

Fuel injection control device for internal combustion engine

Title (de)

Kraftstoffeinspritzsteuerungsvorrichtung für eine Brennkraftmaschine

Title (fr)

Dispositif pour la commande de l'injection de carburant pour un moteur à combustion interne

Publication

EP 1647688 A1 20060419 (EN)

Application

EP 05022621 A 20051017

Priority

JP 2004302406 A 20041018

Abstract (en)

Based on conventional control considering a smoke concentration, a basic fuel injection quantity Q_B or a fuel injection quantity Q_{smoke} according to smoke concentration regulation, whichever is smaller, is taken as an injection quantity Q_0 . Basically, if the outlet temperature of a DPF (21) detected by a sensor (23b) reaches a temperature at which PM can be burned off, a correction for increasing according to this temperature is made to the injection quantity Q_0 to give an injection quantity Q_F . As auxiliary control, if the inlet temperature of the DPF (21) detected by a sensor (23a) is low even when the outlet temperature is high, the correction for increasing, which has been made according to the outlet temperature, is cancelled, and the injection quantity Q_0 is given as the in F after correction, because the entire DPF (21) is in a filter state suitable for burning off PM.

IPC 8 full level

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CPC (source: EP)

F01N 13/009 (2014.06); **F02D 41/029** (2013.01); **F01N 3/035** (2013.01)

Citation (search report)

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Cited by

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Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

EP 1647688 A1 20060419; **EP 1647688 B1 20100721**; CN 100577994 C 20100106; CN 1948724 A 20070418; DE 602005022392 D1 20100902; JP 2006112370 A 20060427; JP 4356583 B2 20091104

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