Title (en)

Exhaust gas treatment system for internal combustion engine

Title (de)

Abgasreinigungssystem für Verbrennungskraftmaschine

Title (fr)

Système de traitement des gaz d'échappement d'un moteur à combustion interne

Publication

EP 1722088 A2 20061115 (EN)

Application

EP 06009584 A 20060509

Priority

JP 2005141915 A 20050513

Abstract (en)

In an exhaust gas treatment system for an internal combustion engine, a basic (post-injection) fuel injection quantity is calculated at block 62a based on an operating condition of the engine, a corrected fuel injection quantity is calculated at blocks 62b1, 62b2 to correct the basic supply quantity based on an exhaust gas temperature TEX1 at a location upstream of the oxidation catalytic converter, and a final (post-injection) fuel injection quantity is calculated in blocks 62c to 62f based on the calculated quantities and injected into the engine 10. Thus the detected exhaust gas temperature TEX1 is not affected by the combustion in the DPF or the mass thereof, nor is it affected by the combustion in the converter or the mass thereof, so that the fuel supply for regeneration can be achieved with good accuracy, thereby improving the DPF regeneration efficiency.

IPC 8 full level

F02D 41/02 (2006.01); F02D 41/40 (2006.01)

CPC (source: EP)

F02D 41/029 (2013.01); **F02D 41/1445** (2013.01); F02D 41/025 (2013.01); F02D 41/1446 (2013.01); F02D 41/405 (2013.01)

Citation (applicant)

US 2004074225 A1 20040422 - SCHALLER JOHANNES [DE], et al

Cited by

FR3090737A1; GB2511499A; GB2476959A; CN102140950A; GB2476959B; US8631644B2; US9212613B2; US8549847B2; US7836687B2; FR2931876A1; EP2631442A4

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1722088 A2 20061115; **EP 1722088 A3 20080528**; **EP 1722088 A8 20070221**; **EP 1722088 B1 20120411**; JP 2006316744 A 20061124

DOCDB simple family (application)

EP 06009584 A 20060509; JP 2005141915 A 20050513