

Title (en)

Exhaust gas purifying system of internal combustion engine

Title (de)

Abgasreinigungssystem für eine Brennkraftmaschine

Title (fr)

Système de purification de gaz d'échappement pour un moteur à combustion interne

Publication

EP 1643091 A1 20060405 (EN)

Application

EP 05021106 A 20050927

Priority

JP 2004287909 A 20040930

Abstract (en)

In an exhaust gas purifying system of an internal combustion engine (1) having a filter (3) provided in an exhaust passage (2) of the internal combustion engine, the present invention enables to prevent excessive temperature rise of the filter (3) while filter regeneration control is performed. When the temperature of the filter (3) is rising after filter regeneration process in which the temperature of the filter is raised to a target temperature to oxidize and remove particulate matter collected on the filter has been started, the temperature of the filter that will be attained if the number of engine revolutions of the internal combustion engine (1) has become equal to or lower than a specified number of engine revolutions is estimated (S105). The temperature rise rate of the filter while the temperature of the filter is rising is controlled in such a way that the estimated filter temperature to be attained is kept within an allowable range (S106).

IPC 8 full level

F01N 3/023 (2006.01); **F02D 41/02** (2006.01)

CPC (source: EP)

F01N 3/023 (2013.01)

Citation (applicant)

- JP 2004068804 A 20040304 - DENSO CORP
- JP 2002038930 A 20020206 - TOYOTA MOTOR CORP
- JP H0621552 A 19940128 - SONY CORP

Citation (search report)

[A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 299 (M - 1274) 2 July 1992 (1992-07-02)

Cited by

US8407989B2; WO2015118856A1; WO2008107469A1

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DE FR GB

DOCDB simple family (publication)

EP 1643091 A1 20060405; **EP 1643091 B1 20070214**; DE 602005000566 D1 20070329; DE 602005000566 T2 20071031; JP 2006097658 A 20060413; JP 4155256 B2 20080924

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