

Title (en)

Method for managing NOx catalyst

Title (de)

Verfahren zur Regelung eines NOx-Speicherkatalysators

Title (fr)

Procédé de contrôle d'un pot catalytique à accumulation de NOx

Publication

EP 1469180 B1 20190123 (EN)

Application

EP 04008984 A 20040415

Priority

- JP 2003110046 A 20030415
- JP 2003320029 A 20030911

Abstract (en)

[origin: EP1469180A2] In a diesel engine, prior to a sulfur discharging process, a pre-process is performed to decrease the air-fuel ratio of the air-fuel mixture that is to be burned in the engine so that the air-fuel ratio A/FEHT of the exhaust gas reaches a predetermined pre-process value alpha . The time required for the air-fuel ratio A/FEHT of the exhaust gas to stabilize near the pre-process value alpha is set as a stand-by time TS. The sulfur discharging process starts after the stand-by time elapses. This enhances the convergence of the air-fuel ratio A/FEHT to the target value during the sulfur discharging process. If a predetermined condition is satisfied, the stand-by time is cancelled to start the sulfur discharging process when or just after the pre-process is started. This efficiently processes the sulfur components accumulated in a NOx storage catalyst, which is arranged in an exhaust passage of the engine, without deteriorating the exhaust gas property. <IMAGE>

IPC 8 full level

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CPC (source: EP)

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