Title (en)

Method for desulfating an NOx absorber in internal combustion engine

Title (de)

Verfahren zur Desulfatisierung eines NOx-Speichers bei einem Verbrennungsmotor

Title (fr)

Méthode de désulfatation d'un piège à NOx dans un moteur à combustion interne

Publication

EP 1258620 A3 20050413 (DE)

Application

EP 02007800 A 20020406

Priority

DE 10123682 A 20010516

Abstract (en)

[origin: EP1258620A2] In a process to remove sulfur from an automotive NOx storage trap operated in lean burn mode, a calculation model determines the sulfur removal steps. The steps are modified using information derived from a knock signal and the fuel anti-knock sensitivity, fuel consumption. The fuel consumption is determined during a lean burn phase of motor operation. The fuel consumption is determined since the previous sulfur removal cycle. A relationship is established between the knock-sensitivity and the fuel sulfur concentration. The relationship between knock-sensitivity and sulfur concentration is held in a memory device. A correctional parameter is determined using the knock-sensitivity and fuel consumption. This parameter is incorporated in the calculation model and is determines the sulfur removal process intervals.

IPC 1-7

F02D 41/02; F01N 3/08

IPC 8 full level

F02D 41/02 (2006.01); F01N 3/08 (2006.01)

CPC (source: EP)

F01N 3/0842 (2013.01); **F02D 35/027** (2013.01); **F02D 41/028** (2013.01); F01N 2570/04 (2013.01); F02D 2200/0612 (2013.01); F02D 2200/0818 (2013.01)

Citation (search report)

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- [A] US 5657625 A 19970819 - KOGA KAZUO [JP], et al
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- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 06 22 September 2000 (2000-09-22)

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EP1515016A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1258620 A2 20021120; **EP 1258620 A3 20050413**; **EP 1258620 B1 20060712**; AT E333040 T1 20060815; DE 10123682 A1 20021219; DE 50207467 D1 20060824

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