

Title (en)

METHOD AND DEVICE FOR CONTROL OF DESULPHURISATION OF A NOX STORAGE CATALYST ARRANGED IN AN EXHAUST SYSTEM OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG EINER ENTSCHWEFELUNG EINES IN EINEM ABGASKANAL EINER VERBRENNUNGSKRAFTMASCHINE ANGEORDNETEN NOX-SPEICHERKATALYSATORS

Title (fr)

PROCEDE ET DISPOSITIF POUR REGULER UNE DESULFURATION D'UN CATALYSEUR ACCUMULATEUR DE NOX PLACE DANS LE CANAL DES GAZ D'ECHAPPEMENT D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1252419 B1 20060111 (DE)

Application

EP 01902302 A 20010111

Priority

- DE 10001432 A 20000115
- EP 0100249 W 20010111

Abstract (en)

[origin: WO0151779A1] The invention relates to a method and a device for the control of a desulphurisation of an NOx storage catalyst, arranged in an exhaust system of an internal combustion engine, with at least one NOx probe arranged downstream of the NOx storage catalyst, which produces a signal dependent upon the concentration of NOx present in the exhaust gas. An NOx activity for the NOx storage catalyst (18) is determined, from the value of the NOx concentration measured downstream from the NOx storage catalyst (18). Should the NOx activity (NOA) for the NOx storage catalyst (18) fall below a preset threshold value (SW), a desulphurisation with preset desulphurisation parameters is initiated. An irreversible deterioration of the NOx storage catalyst (18) is determined by means of the desulphurisation success and, if a preset threshold value for deterioration is exceeded (SWIR), a hard desulphurisation is initiated, whereby at least one desulphurisation parameter corresponding to an elevated desulphurisation efficiency is selected. The further operating parameters of the internal combustion engine (10) are made dependent upon the NOx initial activity (NOAMX) achieved after the hard desulphurisation.

IPC 8 full level

F01N 3/08 (2006.01); **F01N 3/20** (2006.01); **F01N 3/28** (2006.01); **F02D 41/02** (2006.01); **F02D 41/14** (2006.01); **F02D 43/00** (2006.01); **F02D 45/00** (2006.01)

CPC (source: EP)

F01N 3/0842 (2013.01); **F01N 3/0885** (2013.01); **F02D 41/0235** (2013.01); **F02D 41/028** (2013.01); **F02D 41/146** (2013.01); **F02D 41/1463** (2013.01); **F01N 2570/04** (2013.01); **F02D 2200/0811** (2013.01)

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 0151779 A1 20010719; AU 3017401 A 20010724; CN 1185405 C 20050119; CN 1395648 A 20030205; DE 10001432 A1 20010816; DE 50108667 D1 20060406; EP 1252419 A1 20021030; EP 1252419 B1 20060111; ES 2256197 T3 20060716; JP 2003519744 A 20030624; JP 4619603 B2 20110126

DOCDB simple family (application)

EP 0100249 W 20010111; AU 3017401 A 20010111; CN 01803765 A 20010111; DE 10001432 A 20000115; DE 50108667 T 20010111; EP 01902302 A 20010111; ES 01902302 T 20010111; JP 2001551959 A 20010111