Title (en)

DEVICE AND METHOD FOR CONTROLLING A NOX REGENERATION OF A NOX STORAGE CATALYST

Title (de)

VORRICHTUNG UND VERFAHREN ZUR STEUERUNG EINER NOX-REGENERATION EINES NOX-SPEICHERKATALYSATORS

Title (fr)

DISPOSITIF ET PROCEDE DE COMMANDE D'UNE REGENERATION DE NOX D'UN CATALYSEUR ACCUMULATEUR DE NOX

Publication

EP 1252420 B1 20051116 (DE)

Application

EP 01942402 A 20010110

Priority

- DE 10001310 A 20000114
- EP 0100242 W 20010110

Abstract (en)

[origin: WO0151778A1] The invention relates to a method for controlling an NOX regeneration of an NOX storage catalyst that is situated in the exhaust gas system of an internal combustion engine of a vehicle, comprising the following steps: (a) in each lean operating phase of the internal combustion engine, at least one status parameter of the NOX storage catalyst is determined using a measured or calculated NOX crude emission (mroh) of the internal combustion engine and an NOX breakdown emission (m) detected downstream in the exhaust gas by an NOX-sensitive measuring device; (b) a deviation of the status parameter of a current lean operating phase from the status parameters of a preceding lean operating phase is determined and (c) in the event that regeneration is necessary, an NOX regeneration is carried out n times according to the deviation (multiple NOX regeneration). The invention also relates to a device which has means for carrying out the steps of the inventive method.

IPC 1-7

F01N 3/08

IPC 8 full level

F01N 3/08 (2006.01); **F02D 41/02** (2006.01); **F02D 41/14** (2006.01)

CPC (source: EP)

F02D 41/0275 (2013.01); **F02D 41/146** (2013.01); **F02D 41/1461** (2013.01); **F02D 41/1463** (2013.01); **F02D 41/1475** (2013.01); F01N 3/0842 (2013.01); F02D 2200/0811 (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 0151778 A1 20010719; DE 10001310 A1 20010719; DE 50108080 D1 20051222; EP 1252420 A1 20021030; EP 1252420 B1 20051116

DOCDB simple family (application)

EP 0100242 W 20010110; DE 10001310 A 20000114; DE 50108080 T 20010110; EP 01942402 A 20010110