

Title (en)

METHOD AND CONTROLLER FOR OPERATING A NITROGEN OXIDE (NOX) STORAGE CATALYST

Title (de)

VERFAHREN UND STEUERGERÄT ZUM BETREIBEN EINES STICKOXID (NO_x)-SPEICHERKATALYSATORS

Title (fr)

PROCEDE ET ORGANE DE COMMANDE DE FONCTIONNEMENT D'UN CATALYSEUR ACCUMULATEUR D'OXYDES D'AZOTE (NOX)

Publication

EP 1307639 B1 20060315 (DE)

Application

EP 01956310 A 20010711

Priority

- DE 0102594 W 20010711
- DE 10036453 A 20000726

Abstract (en)

[origin: WO0208582A1] The invention relates to a method for operating a nitrogen oxide (NO_x) storage catalyst (12') on an internal combustion engine (1), in particular in a motor vehicle (1). The nitrogen oxides (NO_x) generated by the internal combustion engine (1) are stored in the storage catalyst (12') during a first operating phase and the nitrogen oxides stored in the storage catalyst (12') are released during a second operating phase. The beginning of the second operating phase is determined by means of a nitrogen oxide (NO_x) level (mnosp) of the NO_x storage catalyst (12'), which is modelled by means of a nitrogen oxide (NO_x) storing model (30). According to the invention, in order to be able to determine the beginning and the end of the second operating phase as exactly and reliably as possible, a first value for nitrogen oxide (NO_x) mass flow (msnonk s) behind the NO_x storage catalyst (12') is determined and the NO_x storing model (30) is corrected based on the determined first value (msnonk s).

IPC 8 full level

F01N 3/08 (2006.01); **F02D 45/00** (2006.01); **F02D 41/02** (2006.01); **F02D 41/04** (2006.01); **F02D 41/14** (2006.01); **F02D 41/30** (2006.01)

CPC (source: EP US)

F01N 3/0842 (2013.01 - EP US); **F01N 3/0864** (2013.01 - EP US); **F01N 3/0871** (2013.01 - EP US); **F02D 41/0275** (2013.01 - EP US); **F02D 41/146** (2013.01 - EP US); **F02D 41/1463** (2013.01 - EP US); **F02D 41/1465** (2013.01 - EP US); **F02D 41/1402** (2013.01 - EP US); **F02D 41/3029** (2013.01 - EP US); **F02D 2200/0806** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

WO 0208582 A1 20020131; DE 10036453 A1 20020214; DE 50109223 D1 20060511; EP 1307639 A1 20030507; EP 1307639 B1 20060315; JP 2004504539 A 20040212; JP 5220258 B2 20130626; US 2003163987 A1 20030904; US 6889497 B2 20050510

DOCDB simple family (application)

DE 0102594 W 20010711; DE 10036453 A 20000726; DE 50109223 T 20010711; EP 01956310 A 20010711; JP 2002514045 A 20010711; US 33395403 A 20030127