

Title (en)

METHOD FOR DETERMINING NOX CONCENTRATION

Title (de)

VERFAHREN ZUR BESTIMMUNG DER NO<sub>x</sub>-KONZENTRATION

Title (fr)

PROCEDE DE DETERMINATION DE LA CONCENTRATION EN NOX

Publication

**EP 1232391 A2 20020821 (DE)**

Application

**EP 00989790 A 20001122**

Priority

- DE 0004128 W 20001122
- DE 19956822 A 19991125

Abstract (en)

[origin: WO0138864A2] The invention relates to the measurement of the NO<sub>x</sub> concentration in the exhaust gas of an internal combustion engine (20), whereby a thick-layer measurement sensor (24), comprising two measurement cells is employed. The 1/ lambda value of the exhaust gas is determined from the pumped oxygen ion stream flowing into the first measuring cell, for example, by means of a characteristic field and from this value, for example, by means of a characteristic curve obtained previously in a calibration determination, a measurement error is determined, with which the measured Nox concentration may be corrected. The basis of the invention is the knowledge that the measured error depends on the air ratio in the exhaust gas. A complicated division may be avoided in the correction by expressing the above through the 1/ lambda value.

IPC 1-7

**G01N 27/407**

IPC 8 full level

**G01N 27/419** (2006.01); **G01N 27/26** (2006.01); **G01N 27/407** (2006.01); **G01N 27/416** (2006.01)

CPC (source: EP KR US)

**G01N 27/407** (2013.01 - KR); **G01N 27/4074** (2013.01 - EP US)

Citation (search report)

See references of WO 0138864A2

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

**WO 0138864 A2 20010531**; **WO 0138864 A3 20020214**; DE 19956822 A1 20010607; DE 19956822 B4 20040129; EP 1232391 A2 20020821; JP 2003515166 A 20030422; JP 4746239 B2 20110810; KR 100754535 B1 20070904; KR 20020060760 A 20020718; US 2002179458 A1 20021205; US 6699383 B2 20040302

DOCDB simple family (application)

**DE 0004128 W 20001122**; DE 19956822 A 19991125; EP 00989790 A 20001122; JP 2001540362 A 20001122; KR 20027006735 A 20020525; US 15648302 A 20020528