

Title (en)

Method for testing an exhaust gas recirculation system

Title (de)

Verfahren zur Überprüfung einer Abgasrückführanlage

Title (fr)

Procédé pour tester un système de recirculation de gaz d'échappement

Publication

EP 1180594 A2 20020220 (DE)

Application

EP 01118459 A 20010731

Priority

DE 10039952 A 20000816

Abstract (en)

Process for monitoring an exhaust gas in a recirculating device of an I.C. engine comprises adjusting a determined change of the exhaust gas recirculating rate; measuring the NOx concentration in the exhaust gas; and establishing a defect in the recirculating device from the concentration difference depending on the change of the exhaust gas recirculating rate. Preferred Features: The concentration difference from the NOx concentration measured before and after the change of the exhaust gas recirculating rate. The NOx concentration is measured downstream of a NOx storage catalyst and the catalyst is saturated to its maximum storage capability before adjusting the determined change of the exhaust gas recirculating rate. Saturation is recognized downstream of the catalyst. Monitoring is only carried out when the operating parameters of the engine lie within a determined region and/or have limited dynamics.

Abstract (de)

Verfahren zur Überprüfung einer Abgas mit einer Abgasrückführrate vom Auspufftrakt zum Ansaugtrakt rückführenden Abgasrückführanlage einer Brennkraftmaschine, bei dem eine bestimmte Veränderung der Abgasrückführrate (Δ AGR) eingestellt, die NOx-Konzentration (NOx1, NOx2) im Abgas gemessen und bei Ausbleiben einer bestimmten von der Veränderung der Abgasrückführrate abhängigen Konzentrationsdifferenz ein Defekt der Abgasrückführanlage festgestellt wird. <IMAGE>

IPC 1-7

F02M 25/07

IPC 8 full level

F02M 26/46 (2016.01); **F02M 26/49** (2016.01)

CPC (source: EP US)

F02M 26/46 (2016.02 - EP US); **F02M 26/49** (2016.02 - EP US); **F02D 41/0055** (2013.01 - EP US); **F02D 41/146** (2013.01 - EP US);
F02M 26/48 (2016.02 - EP US)

Citation (applicant)

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- DE 4216044 A1 19931118 - BOSCH GMBH ROBERT [DE]
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Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 1180594 A2 20020220; EP 1180594 A3 20030102; EP 1180594 B1 20060906; DE 10039952 A1 20020228; DE 10039952 C2 20030424;
DE 50110924 D1 20061019; US 2002033045 A1 20020321; US 6598470 B2 20030729

DOCDB simple family (application)

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