

Title (en)

DEVICE AND METHOD FOR DETERMINATION OF THE QUANTITY OF NOX EMITTED BY A DIESEL ENGINE IN A MOTOR VEHICLE AND DIAGNOSTIC AND ENGINE MANAGEMENT SYSTEM COMPRISING SUCH A DEVICE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BESTIMMUNG DER VON EINEM DIESELMOTOR EINES KRAFTFAHRZEUGES AUSGESTOSSENEN NOX-MENGE UND DIAGNOSE- SOWIE MOTORVERWALTUNGSSYSTEM MIT EINER DERARTIGEN VORRICHTUNG

Title (fr)

DISPOSITIF ET PROCEDE DE DETERMINATION DE LA QUANTITE DE NOX EMISE PAR UN MOTEUR DIESEL DE VEHICULE AUTOMOBILE ET SYSTEMES DE DIAGNOSTIC ET DE CONTROLE DU FONCTIONNEMENT DU MOTEUR COMPRENANT UN TEL DISPOSITIF.

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Application

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Abstract (en)

[origin: WO2006056702A1] The invention relates to a device for determination of the quantity of NO_x emitted by a diesel engine (10) in a motor vehicle with common-rail fuel supply means (12) for the cylinders thereof, of the type comprising pressure recording means (32) in at least one cylinder of the engine and means (50), for determining the mass fraction of oxygen in the mixture admitted into the cylinder. Said device comprises means (58, 68), for determining a temperature of the flame front on combustion of the mixture, means (52), for determining the mass of fuel burnt in the cylinder and means (70), for calculating the quantity of NO_x emitted by the combustion of the mixture in the cylinder as a function of the recorded pressure, the mass fraction of oxygen in the mixture, the temperature of the flame front and the mass of fuel burnt.

IPC 8 full level

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