Title (en)

DEVICE AND METHOD FOR DETECTING A STATE OF A SENSOR IN THE EXHAUST SYSTEM OF A MOTOR VEHICLE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR ERKENNUNG DES STATUS EINES SENSORS IM ABGASSYSTEM EINES MOTORFAHRZEUGS

Title (fr)

DISPOSITIF ET PROCEDE DE DETECTION D'ETAT DE CAPTEUR DANS SYSTEME D'ECHAPPEMENT DE VEHICULE AUTOMOBILE

Publication

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Application

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Abstract (en)

[origin: WO2011126429A1] The invention relates to a method for determining a state of at least one sensor (240; 270) of a motor vehicle (100; 112) which has an engine (230) and an exhaust system with a catalyst (260). The method comprises the steps of: - altering a NOx gas concentration downstream of the engine (230) by controlling operation of the engine (230) in a predetermined way; - determining a difference in a first NOx gas concentration upstream of said catalyst (260); - determining a difference in a second NOx gas concentration downstream of said catalyst; and - determining a state of said at least one sensor (240; 270) on the basis of said difference in the first NOx gas concentration and said difference in the second NOx gas concentration. The invention relates also to a computer programme product comprising programme code (P) for a computer (200; 210) for implementing a method according to the invention. The invention relates also to a device for determining a state of a sensor of a motor vehicle, and to a motor vehicle which is equipped with the device.

IPC 8 full level

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Citation (search report)

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