

Title (en)
Sensor activation monitor

Title (de)
Monitor zur Sensorenaktivierung

Title (fr)
Surveillance de l'activation d'un capteur

Publication
EP 1959121 A1 20080820 (EN)

Application
EP 07102404 A 20070214

Priority
EP 07102404 A 20070214

Abstract (en)
The present invention relates to a method and on-board diagnostic system for verifying timely activation of a heated exhaust gas binary oxygen sensor arranged in an exhaust after-treatment system of a vehicle following start-up of an associated internal combustion engine. It is determined if entry conditions are met. Changes in an electrical signal output by the sensor are detected. A maximum value of the signal is detected. The detected signal changes are accumulated. It is determined if the accumulation is above a predetermined threshold within a first time period following start-up. It is determined if the maximum value is above a predetermined reference value within a second time period following start-up. If at least one of the determinations is positive, a functioning sensor is indicated and if both determinations are negative, a malfunctioning sensor is indicated.

IPC 8 full level
F02D 41/14 (2006.01)

CPC (source: EP)
F02D 41/1454 (2013.01); **F02D 41/1474** (2013.01); **F02D 41/1495** (2013.01)

Citation (applicant)
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DE102012013781A1; DE102012013781B4

Designated contracting state (EPC)
DE GB SE

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1959121 A1 20080820; EP 1959121 B1 20090819; CN 101245739 A 20080820; CN 101245739 B 20130508;
DE 602007002050 D1 20091001

DOCDB simple family (application)
EP 07102404 A 20070214; CN 200810008232 A 20080214; DE 602007002050 T 20070214