

Title (en)
Lambda sensor diagnosis

Title (de)
Fehlererkennungsvorrichtung einer Lambdasonde

Title (fr)
Détection de la défaillance d'une sonde lambda

Publication
EP 1437501 A1 20040714 (EN)

Application
EP 03000494 A 20030113

Priority
EP 03000494 A 20030113

Abstract (en)
The method involves measuring a time delay by a sensor (14) until rear lambdasond (17) senses the oxygen loaded or oxygen unloaded condition of a catalyst (16). Another delay is measured by the lambdasond until it senses the oxygen unloaded or loaded condition of the catalyst. The conditions and the time delays are compared and the difference is reported to an engine control unit (11) to verify the state of the lambdasond.

IPC 1-7
F02D 41/14

IPC 8 full level
F02D 41/14 (2006.01)

CPC (source: EP)
F02D 41/1441 (2013.01); **F02D 41/1495** (2013.01)

Citation (applicant)
WO 9838415 A1 19980903 - MOTOROLA INC [US]

Citation (search report)

- [X] EP 0796988 A2 19970924 - MAGNETI MARELLI SPA [IT]
- [X] US 5305727 A 19940426 - GOPP ALEXANDER Y [US]
- [A] US 5610321 A 19970311 - SHINMOTO KAZUHIRO [JP]
- [A] DE 19859176 A1 20000713 - SIEMENS AG [DE]
- [A] EP 0952322 A2 19991027 - MAGNETI MARELLI SPA [IT]
- [DA] US 5842339 A 19981201 - BUSH KEVIN J [US], et al

Cited by
DE102008046605B3; DE102006024182B4; DE102005024872A1; CN100464062C; DE102006024180B4; DE102006014916A1;
DE102006014916B4; DE102006047188B4; DE102006047188A1; EP1734241A1; US7793489B2; US7499792B2; WO2008040732A1;
US8250912B2; US8196460B2; US7997064B2; US8484946B2; US9261033B2

Designated contracting state (EPC)
DE GB SE

DOCDB simple family (publication)
EP 1437501 A1 20040714; EP 1437501 B1 20070307; DE 60312298 D1 20070419; DE 60312298 T2 20071108

DOCDB simple family (application)
EP 03000494 A 20030113; DE 60312298 T 20030113