

Title (en)

METHOD AND DEVICE FOR DIAGNOSING THE OPERATING CONDITION OF AN INTERNAL COMBUSTION ENGINE EXHAUST GAS RECYCLING VALVE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DIAGNOSE DES BETRIEBSZUSTANDS EINES VERBRENNUNGSMOTOR-ABGASRÜCKFÜHRVENTILS

Title (fr)

PROCEDE ET DISPOSITIF DE DIAGNOSTIC DE L'ETAT DE FONCTIONNEMENT D' UNE VANNE DE RECIRCULATION DE GAZ D'ECHAPPEMENT D' UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1478838 A1 20041124 (FR)**

Application

**EP 03732622 A 20030225**

Priority

- FR 0300601 W 20030225
- FR 0202362 A 20020225

Abstract (en)

[origin: WO03071121A1] The invention concerns a method for diagnosing the operating condition of an internal combustion engine exhaust gas recycling valve (24) which consists in: acquiring a measurement value of a reference position of the recycling valve (24) at a predetermined time corresponding to a normally closed position of the valve, calculating the difference between the acquired reference value and a reference value acquired during the diagnostic cycle previously carried out and comparing the calculated difference with a threshold value for detecting opening of the valve (24).

IPC 1-7

**F02M 25/07**

IPC 8 full level

**F02D 21/08** (2006.01); **F02D 41/00** (2006.01); **F02D 41/22** (2006.01); **F02M 25/07** (2006.01); **F02D 41/14** (2006.01)

CPC (source: EP US)

**F02D 21/08** (2013.01 - EP US); **F02M 26/49** (2016.02 - EP US); **F02M 26/53** (2016.02 - EP US); **F02M 26/57** (2016.02 - EP US); **F02D 41/1446** (2013.01 - EP US); **F02D 41/2464** (2013.01 - EP US); **F02D 2200/0414** (2013.01 - EP US); **F02M 26/05** (2016.02 - EP US)

Citation (search report)

See references of WO 03071121A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

**WO 03071121 A1 20030828**; DE 60316667 D1 20071115; DE 60316667 T2 20080717; EP 1478838 A1 20041124; EP 1478838 B1 20071003; ES 2290469 T3 20080216; FR 2836517 A1 20030829; FR 2836517 B1 20040528; JP 2005522613 A 20050728; JP 4277687 B2 20090610; US 2005145231 A1 20050707; US 7100585 B2 20060905

DOCDB simple family (application)

**FR 0300601 W 20030225**; DE 60316667 T 20030225; EP 03732622 A 20030225; ES 03732622 T 20030225; FR 0202362 A 20020225; JP 2003569995 A 20030225; US 50414205 A 20050222