

Title (en)

FAILURE DETERMINATION DEVICE FOR AIR WEIGHT FLOW RATE DETECTOR, AND METHOD THEREOF

Title (de)

FEHLERBESTIMMUNGSVORRICHTUNG FÜR EINEN LUFTMASSENDURCHFLUSSDETEKTOR UND VERFAHREN DAFÜR

Title (fr)

DISPOSITIF DE DETERMINATION DE PANNES POUR DETECTEUR DE DEBIT MASSIQUE D'AIR, ET PROCEDE ASSOCIE

Publication

EP 2290213 A4 20110622 (EN)

Application

EP 09746426 A 20090310

Priority

- JP 2009054534 W 20090310
- JP 2008129034 A 20080516

Abstract (en)

[origin: EP2290213A1] A failure determination device for an air weight flow rate detector that maintains the calculation accuracy for an estimated air weight flow rate value to be compared with a detection value from the air weight flow rate detector, thereby allowing the failure determination accuracy to be improved. A failure determination device (1) for an air weight flow rate detector (22) calculates the estimated air weight flow rate value GAIREST according to a relationship of the pressure in an air-intake passage (5) between an upstream side and a downstream side of an air weight flow control mechanism (7), and determines a failure in the air weight flow rate detector in accordance with a comparison result of the estimated air weight flow rate value GAIREST calculated in such a way and the detection value GAIR for the air weight flow rate detected by the air weight flow rate detector. Further, the failure determination device (1) detects an open degree parameter representing the open degree of the air-intake passage (5), while prohibiting failure determination for the air weight flow rate detector by the use of a failure determination means when the open degree of the air-intake passage (5) that is represented by the detected open degree parameter exceeds a given value.

IPC 8 full level

F02D 45/00 (2006.01)

CPC (source: EP)

F02D 41/18 (2013.01); **F02D 41/222** (2013.01); **F02D 2200/0402** (2013.01)

Citation (search report)

- [X] US 2004111211 A1 20040610 - TAKIZAWA OSAMU [JP], et al
- [A] DE 19953933 C1 20010215 - DAIMLER CHRYSLER AG [DE]
- See references of WO 2009139219A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2290213 A1 20110302; **EP 2290213 A4 20110622**; JP 2009275643 A 20091126; WO 2009139219 A1 20091119

DOCDB simple family (application)

EP 09746426 A 20090310; JP 2008129034 A 20080516; JP 2009054534 W 20090310