

Title (en)

A malfunction determining apparatus of an exhaust gas recirculation system

Title (de)

Vorrichtung zur Detektion einer Fehlfunktion eines Abgasrückführungssystems

Title (fr)

Dispositif pour détecter un fonctionnement défectueux d'un système de récirculation de gaz d'échappement

Publication

EP 0812983 A3 19980701 (EN)

Application

EP 97108755 A 19970602

Priority

JP 15130396 A 19960612

Abstract (en)

[origin: EP0812983A2] A malfunction determining apparatus of an exhaust gas recirculation system (1) performs an accurate determination of malfunctioning of an EGR valve (4) based on an amount of change in the actual degree of opening of the EGR valve (4). The EGR valve (4) is provided between an exhaust passage (10) and an intake passage (9) of an internal combustion engine (2) of a vehicle. An actual valve opening degree detector detects an actual valve opening degree (ELIFTD) of the EGR valve (4). A target valve opening degree calculator calculates a target valve opening degree (ETLIFTD) of the EGR valve (4). A malfunction determining part calculates an amount of change (ELIFTD-ETLIFTD1) in the actual valve opening degree (ELIFTD) when an amount of change (ETLIFTD-ETLIFTD1) in the target valve opening degree is equal to or greater than a predetermined value (α) so as to determine an occurrence of malfunction in the exhaust gas recirculation system (1) based on a comparison between the amount of change (ELIFTD-ELIFTD1) in the actual valve opening degree (ELIFTD) and a second predetermined value (β). <IMAGE>

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F02M 25/07

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CPC (source: EP)

F02M 26/49 (2016.02); **F02M 26/57** (2016.02); **F02M 26/47** (2016.02); **F02M 26/48** (2016.02)

Citation (search report)

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