

Title (en)

CONTROL DEVICE FOR COMMON-RAIL SYSTEM IN ABNORMAL CONDITION

Title (de)

STEUERVORRICHTUNG FÜR COMMON-RAIL-SYSTEM UNTER ABNORMALEN BEDINGUNGEN

Title (fr)

DISPOSITIF DE COMMANDE POUR SYSTÈME À RAMPE COMMUNE DANS UN ÉTAT ANORMAL

Publication

EP 2246550 B1 20140723 (EN)

Application

EP 08872836 A 20081118

Priority

- JP 2008003365 W 20081118
- JP 2008042874 A 20080225

Abstract (en)

[origin: EP2246550A1] Provided is an abnormality control system for a common rail system that can prevent an incorrect abnormality detection in low temperature conditions. Upon starting of a fuel leakage determining process, the abnormality detecting unit (91) computes a pressure difference #Pr between a target rail pressure P_{rtgt} and a rail pressure detection value P_{rr} in step S1, and then determines if the pressure difference #Pr is higher than a rail pressure drop detection threshold value P_{rth} in step S2. When the determination result of step S2 is Yes, the abnormality detecting unit (91) sets an abnormality code C_{err} to 1 in step S5, sets the output reduction flag F_{fc} to 1 in step S6, and determines if the fuel temperature T_f received from the fuel temperature sensor (73) is higher than a waxing detection threshold value T_{fth} in step S7. When the fuel temperature T_f is relatively high, and the determination result of step S7 is thereby Yes, the abnormality detecting unit (91) sets the fuel leakage flag F_{fl} to 1 in step S8 as a case of leakage in the fuel system.

IPC 8 full level

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CPC (source: EP)

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Citation (examination)

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Cited by

DE102010050853A1; CN104736825A; EP4123147A1; KR20190005275A; DE112017002487T5; US10704490B2; DE112017002487B4

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