

Title (en)
Pressure accumulation type fuel injection system

Title (de)
Druckspeicherkraftstoffeinspritzvorrichtung

Title (fr)
Dispositif d'injection de combustible à accumulateur de pression

Publication
EP 1441120 A3 20110413 (EN)

Application
EP 04001588 A 20040126

Priority
JP 2003017787 A 20030127

Abstract (en)
[origin: EP1441120A2] An engine control unit (ECU) (10) of a common rail type fuel injection system of an internal combustion engine (1) determines that an abnormality failure of a fuel supply pump (4) is generated, if an abnormally high-pressure state in which a common rail pressure exceeds a first threshold or a second threshold continues for a long time. The ECU (10) stops an operation of the engine (1) immediately or after an elapse of a predetermined period in accordance with a level of the abnormality failure. Thus, the abnormally high-pressure state in the common rail (2) can be avoided quickly and seizing and the like of the fuel supply pump (4) can be prevented. As a result, reliability and safety of the common rail type fuel injection system can be ensured.

IPC 8 full level
F02D 41/38 (2006.01); **F02M 47/00** (2006.01); **F02D 41/22** (2006.01); **F02D 45/00** (2006.01); **F02M 51/00** (2006.01)

CPC (source: EP)
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Citation (search report)
• [X] DE 19623150 A1 19961212 - NIPPON DENSO CO [JP]
• [A] DE 19604552 A1 19970814 - BOSCH GMBH ROBERT [DE]

Cited by
US7775102B2; EP2151565A4; CN109488473A; DE102009050469A1; DE102009050469B4; CN115126637A; US8881707B2; US9657653B2; US8195355B2; WO2006015893A1; WO2019057666A1; WO2007097226A1

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AL LT LV MK

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