

Title (en)

A fuel injection system for an internal combustion engine

Title (de)

Kraftstoffeinspritzsystem für eine Brennkraftmaschine

Title (fr)

Système d'injection de combustible pour moteur à combustion interne

Publication

EP 0860600 B1 20030917 (EN)

Application

EP 98102890 A 19980219

Priority

- JP 3797997 A 19970221
- JP 4241197 A 19970226

Abstract (en)

[origin: EP0860600A2] Fuel injection valves (1) of the engine (10) are connected to the common rail (3). The high pressure fuel pump (5) supplies pressurized fuel to the common rail (3). The electronic control unit (ECU) (20) determines whether one or more of the fuel injection valves has failed. When one or more of the fuel injection valves is determined as having failed, the ECU stops the high pressure fuel pump and injects fuel from all of the fuel injection valves including the fuel injection valve determined as being failed. Since the fuel remained in the common rail is expelled from the common rail through, not only the failed fuel injection valve, but also other fuel injection valves, the common rail is depressurized in a short time and, thereby, the abnormal fuel injection from the failed fuel injection valve stops in a short time. <IMAGE>

IPC 1-7

F02D 41/38; **F02D 41/20**

IPC 8 full level

F02D 41/22 (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP)

F02D 41/221 (2013.01); **F02D 41/3809** (2013.01); **F02D 2041/224** (2013.01); **F02D 2041/225** (2013.01)

Cited by

KR100730664B1; EP1350941A1; EP1036923A3; US7556023B2; DE102007028900B4; EP1039117A3; CN102705121A; CN100425816C; EP0969195A3; EP1128049A3; FR2803875A1; DE112008001486B4; DE102004009026B4; FR3007135A1; CN114233501A; GB2486417A; CN113250838A; EP0860601A3; EP1122418A3; US8333109B2; US6823844B2; WO2009000647A3; WO2014199086A1; WO0186139A1; US7225075B2; US10704490B2; US6474292B1; US9874189B2; US8897996B2; WO0052319A1; WO2015005844A1; WO2018065223A1; WO2008147319A1; WO2004070195A1; WO2018013032A1; KR101877946B1

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