Title (en)

A method and system for controlling pressure in a pressure accumulator

Title (de)

Verfahren und Vorrichtung zur Steuerung des Drucks in einem Common Rail System

Title (fr)

Procédé et dispositif de contrôle de la pression dans un accumulateur à pression

Publication

EP 2333283 A1 20110615 (EN)

Application

EP 09252726 A 20091204

Priority

EP 09252726 A 20091204

Abstract (en)

This disclosure relates to a method and system for controlling pressure in a pressure accumulator, such as a common rail, of a fuel injection system in the event of valve failure during cranking. The method comprises the steps of monitoring the speed of the engine and the valve to determine a fault which would cause the valve to remain open. When such a fault is detected, and the engine speed is in a predetermined cranking range, the continuous activation and deactivation of one or more injectors is effected. The duration and frequency of the activation is such as to enable fuel to leak from the injectors into a fuel return path without injection into the combustion chambers to reduce pressure in the accumulator. The system comprises means for effecting the method.

IPC 8 full level

F02D 41/06 (2006.01); **F02D 41/22** (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP)

F02D 41/06 (2013.01); **F02D 41/221** (2013.01); **F02D 41/3872** (2013.01); F02D 2041/224 (2013.01); F02D 2200/0602 (2013.01); F02D 2250/31 (2013.01)

Citation (applicant)
- EP 2110543 A1 20091021 - CATERPILLAR MOTOREN GMBH & CO [DE]
- EP 1024274 A2 20000802 - DENSO CORP [JP]
- US 6273067 B1 20010814 - BAZINET VINCENT [FR]

Citation (search report)
- [Y] DE 102005012998 B3 20060921 - SIEMENS AG [DE]
- [Y] GB 2332241 A 19990616 - DENSO CORP [JP]
- [A] DE 19951132 A1 20010510 - BOSCH GMBH ROBERT [DE]
- [A] DE 102005012997 A1 20060928 - SIEMENS AG [DE]
- [A] EP 0896145 A2 19990210 - TOYOTA MOTOR CO LTD [JP]
- [AD] EP 1024274 A2 20000802 - DENSO CORP [JP]

Cited by

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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 SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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