

Title (en)

Accumulator fuel injection system controller and control method and accumulator fuel injection system

Title (de)

Steuergerät für ein Akkumulator-Brennstoffeinspritzsystem und Steuerverfahren und Akkumulator-Brennstoffeinspritzsystem

Title (fr)

Contrôleur de système d'injection de carburant d'accumulateur et procédé de contrôle et système d'injection de carburant d'accumulateur

Publication

**EP 2336531 A1 20110622 (EN)**

Application

**EP 10187665 A 20101015**

Priority

JP 2009287344 A 20091218

Abstract (en)

To provide an accumulator fuel injection system that can maintain a rail pressure equal to or greater than an injectable pressure for a relatively long time while an internal combustion engine is automatically stopped. An accumulator fuel injection system controller capable of executing idling stop control of an internal combustion engine is equipped with fuel injection valve controlling means that causes fuel injection valves to stop fuel injection after the establishment of an idling stop condition and causes the fuel injection valves to resume fuel injection after the establishment of a restart condition, and rail pressure controlling means that regulates the pressure inside a common rail on the basis of a calculated target rail pressure, wherein the rail pressure controlling means sets the target rail pressure after the establishment of the idling stop condition to a value that is larger than the target rail pressure at the time of the establishment of the idling stop condition.

IPC 8 full level

**F02D 41/04** (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP)

**F02D 41/042** (2013.01); **F02D 41/3836** (2013.01); **F02D 41/3845** (2013.01); **F02D 41/3863** (2013.01); **F02D 2250/31** (2013.01); **F02N 11/0814** (2013.01)

Citation (applicant)

JP 3724392 B2 20051207

Citation (search report)

- [XY] EP 1154154 A2 20011114 - TOYOTA MOTOR CO LTD [JP]
- [X] DE 102004006523 A1 20050623 - MITSUBISHI ELECTRIC CORP [JP]
- [X] JP 2004036459 A 20040205 - TOYOTA MOTOR CORP
- [YA] EP 0886058 A2 19981223 - TOYOTA MOTOR CO LTD [JP]

Cited by

CN110630398A; FR3050236A1; CN109072794A; EP3061956A3; WO2017182724A1; WO2013006251A3; US9512799B2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

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