

Title (en)

Fuel injection control apparatus for accumulator type engine

Title (de)

Kraftstoffeinspritzungssteuergerät für eine Brennkraftmaschine mit Kraftstoffspeicherleitung

Title (fr)

Dispositif de commande d'injection de combustible pour moteur à combustion interne à accumulateur

Publication

EP 0896145 B1 20040317 (EN)

Application

EP 98114569 A 19980803

Priority

JP 20918397 A 19970804

Abstract (en)

[origin: EP0896145A2] A fuel injection control apparatus for an accumulator type engine (1) prevents occurrence of loud combustion noises due to excessively high fuel pressure in an accumulator pipe (4) at the time of start of the engine (1). Injectors (2) of a diesel engine (1) are connected to a common rail (4) provided commonly for all the cylinders (#1-#4). The common rail (4) is connected to a supply pump (6) by a supply pipe (5). A pressure control valve (10) for controlling the pressure of fuel ejected from the supply pump (6) is provided near an ejection portion (6a) of the supply pump (6). At the time of start of the engine (1) before the cylinders are discriminated, an electronic control unit (ECU) (51) normally executes the starting-time control of the pressure control valve (10). Even before the cylinder discrimination, the ECU (51) calculates a target fuel pressure and detects actual fuel pressure in the main routine. If the actual fuel pressure exceeds the target fuel pressure, the ECU 51 switches off the pressure control valve (10) even before the cylinder discrimination. Therefore, an excessively high fuel pressure is prevented. <IMAGE>

IPC 1-7

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Citation (examination)

- JP S63266149 A 19881102 - TOYOTA MOTOR CORP
- JP H08232703 A 19960910 - TOYOTA MOTOR CORP

Cited by

EP2333283A1; CN115450778A; GB2578577A; EP1308616A3; EP2492480A4; GB2364101A; GB2364101B; DE102016207297B3; CN109072795A; GB2459018A; GB2459018B; DE102010063586B4; US10641199B2; US7025028B2; WO2017186326A1; WO03042523A1; EP2535556B1

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