

Title (en)
Fuel pressure control apparatus

Title (de)
Einrichtung zur Brennstoffdrucksteuerung

Title (fr)
Dispositif de commande de pression de combustible

Publication
EP 1304471 A3 20040519 (EN)

Application
EP 03001464 A 20000203

Priority
• EP 00102392 A 20000203
• JP 4135899 A 19990219

Abstract (en)
[origin: EP1030048A2] The present invention proposes a fuel pressure control apparatus and method for a high-pressure fuel injection system which sufficiently reduces a fuel pressure in an accumulator line while preventing the high-pressure fuel injection system from being adversely affected. The fuel pressure control apparatus for the high-pressure fuel injection system is equipped with an accumulator line for accumulating fuel supplied from a fuel pump at a high pressure and supplying the fuel to fuel injection valves, and with a relief valve for discharging fuel in the accumulator line. Furthermore, the apparatus is equipped with fuel pressure control means for detecting a fuel pressure in the accumulator line and driving the relief valve so as to reduce the fuel pressure in accordance with a pressure reduction requirement based on a comparison between the detected fuel pressure and a target pressure. The fuel pressure control means controls an opening movement of the relief valve such that the open-valve period of the relief valve does not overlap with an open-valve period of the fuel injection valves, a timing for detecting fuel pressure, a period for force-feeding fuel from the fuel pump or the like. <IMAGE>

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Citation (search report)
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• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 478 (M - 1036) 18 October 1990 (1990-10-18)
• [DA] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06 30 April 1998 (1998-04-30)

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EP 1030048 A2 20000823; **EP 1030048 A3 20020327**; **EP 1030048 B1 20041229**; DE 60016989 D1 20050203; DE 60016989 T2 20050609; DE 60022233 D1 20050929; DE 60022233 T2 20060309; EP 1304470 A2 20030423; EP 1304470 A3 20040519; EP 1304470 B1 20050824; EP 1304471 A2 20030423; EP 1304471 A3 20040519; ES 2232336 T3 20050601; ES 2243809 T3 20051201; JP 2000240494 A 20000905; JP 4023020 B2 20071219

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