

Title (en)

Fuel injection device with pilot- and main-injection

Title (de)

Kraftstoffeinspritzvorrichtung für eine Vor-und Haupteinspritzung

Title (fr)

Dispositif d'injection de combustible à pré-injection et injection principale

Publication

EP 0610585 B1 19960904 (DE)

Application

EP 93120308 A 19931216

Priority

AT 22493 A 19930209

Abstract (en)

[origin: EP0610585A1] The invention relates to a fuel injection device for a pilot and main injection of identical or different fuel. For this purpose a special injection pump (1), not itself delivering fuel but only generating pressure, and a special two-needle injection valve (9) for each cylinder with valve needles (18, 19) fitted axially parallel side by side and adjusted to different opening pressures, and with a control piston (33) are provided. The latter in a receiver bore (34) is axially freely movable between two limit positions and is responsible both for exact metering of the pilot injection fuel quantity and precisely timed control of the pilot injection, and for a staggered, controlled main injection, starting with and without overlap. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Cited by

CN107013339A; US5996558A; CN114704410A; EP0718489A1; US5647316A; US8944027B2; WO9851925A1; US8459576B2; US8683979B2

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