

Title (en)

FUEL INJECTION PUMP FOR INTERNAL-COMBUSTION ENGINES

Publication

EP 0204117 B1 19880720 (DE)

Application

EP 86105435 A 19860419

Priority

DE 3517974 A 19850518

Abstract (en)

[origin: US4733645A] A fuel injection pump for internal combustion engines which has an rpm-proportional injection onset adjusting device, a pressure control valve controlling the supply pressure (phd f), a cold-start acceleration device having a pressure valve associated with the pressure control valve, and a full-load stop, controlled by an adjustment device, for limiting the maximum full-load quantity injected by the fuel injection pump. The adjustment device has a piston, which is acted upon on one end by the supply pressure in the suction chamber of the injection pump and on the other end by a pressure (pa) that is made to differ from the supply pressure by means of two separate throttles. The two throttles have the effect that if the pressure valve is closed, the adaptation device is subjected to a differential pressure which is approximately equal to that when the pressure valve is opened, and so the full-load courses attained in normal operation and in cold operation are virtually identical.

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