

Title (en)
FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES

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EP 0162287 A3 19870909 (DE)

Application
EP 85104654 A 19850417

Priority
DE 3418437 A 19840518

Abstract (en)
[origin: US4622943A] A fuel injection pump is proposed, which is provided with a hydraulically operating injection adjuster device which is acted upon by a pressure which is determined by the feed pressure of a feed pump driven in synchronism with the fuel injection pump and by the control behavior of a pressure control valve. The pressure control valve has a piston controlling a relief line, and the piston is controllable by means of the pressure to be fed in, counter to the restoring force of a spring, and counter to a pressure controlled via a pressure maintenance valve and a switchable relief valve disposed parallel thereto. The valve is also connected to a device for adjusting the biasing of an idling spring of the governor of the fuel injection pump. With the increasing of the set pressure for the injection adjusting device upon closure of the valve, the biasing of the idling spring and thereby the idling rpm are both increased whenever the instant of injection is shifted toward "early" during starting and warmup.

IPC 1-7
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IPC 8 full level
F02D 1/02 (2006.01); **F02D 1/04** (2006.01); **F02D 1/12** (2006.01); **F02D 1/18** (2006.01); **F02M 41/12** (2006.01); **F02M 59/44** (2006.01)

CPC (source: EP US)
F02D 1/183 (2013.01 - EP US); **F02M 41/128** (2013.01 - EP US)

Citation (search report)
• [A] GB 2111252 A 19830629 - BOSCH GMBH ROBERT
• [A] EP 0075856 A2 19830406 - BOSCH GMBH ROBERT [DE]
• [A] DE 3208633 A1 19820923 - DIESEL KIKI CO [JP]
• [A] DE 2909456 A1 19800918 - BOSCH GMBH ROBERT
• [AD] DE 2844910 A1 19800430 - BOSCH GMBH ROBERT

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DE FR GB

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