Title (en)

## FUEL INJECTION PUMP FOR INTERNAL-COMBUSTION ENGINES

Publication

EP 0191930 B1 19880601 (DE)

#### Application

## EP 85115959 A 19851213

Priority

DE 3506041 A 19850221

### Abstract (en)

[origin: EP0191930A1] 1. Fuel injection pump for internal-combustion engines, with a suction space (17) filled with fuel, the pressure of which is controlled as a function of the engine speed, with a fuel-rate adjusting lever (2) adjustable by means of a controller, and with a stop (3) for the fuel-rate adjusting lever (2) by means of which the regulating travel of the latter can be limited in the direction of an increase in the fuel-injection rate, and which can be adjusted by means of a regulating piston (11) which, on the one hand, is exposed to the fuel pressure prevailing in the suction space (17) and, on the other hand, limits a restoring space (23) and is subjected there to a restoring force which is exerted on the fuel-rate adjusting lever (2) in the direction of a reduction in the fuel-injection rate and which is modified by means of a fuel pressure controlled as a function of operating parameters, the restoring space (23) being connectable to a relief line, characterized in that fuel at the pressure prevailing in the suction space (17) can be fed to the restoring space (23), and the restoring space is connectable to the relief line (28) via an electrically controlled valve (27, 31) controlled by an electrical control device (30) when a maximum engine-speed or maximum driving-speed value is exceeded.

IPC 1-7

## F02D 1/12

IPC 8 full level

### F02D 1/02 (2006.01); F02D 1/04 (2006.01); F02D 1/12 (2006.01); F02M 59/44 (2006.01)

CPC (source: EP)

F02D 1/127 (2013.01); F02M 59/447 (2013.01)

Cited by

FR2592917A1; EP0338708A3; EP0403791A3

Designated contracting state (EPC) DE FR GB

# DOCDB simple family (publication)

EP 0191930 A1 19860827; EP 0191930 B1 19880601; DE 3506041 A1 19860821; DE 3563092 D1 19880707; JP S61192819 A 19860827

DOCDB simple family (application)

EP 85115959 A 19851213; DE 3506041 A 19850221; DE 3563092 T 19851213; JP 3403286 A 19860220