

Title (en)
TIME PRESSURE INJECTION DEVICE WITH PREDOSAGE

Publication
EP 0077716 B1 19850529 (FR)

Application
EP 82401861 A 19821011

Priority
FR 8119395 A 19811015

Abstract (en)
[origin: ES8307336A1] An electronically controlled device for premetered pressure-time injection using high injection pressure and low feed pressure, which include one source (5-6) of medium pressure (MP) which is intermediate the high and low pressures, a two-stage rotary distributor which cyclically distributes the high and low pressure into single piping systems for each cylinder, a plurality of injection nozzles wherein, in each injector nozzle (30), a metering piston is provided (8) whose delivery chamber (21) is connected to the single piping system, and an injector control piston (11) having a control chamber (31) which is connected, via a three-channel electrovalve (9), through a medium pressure channel for the purposes of initiating injection, and through a second channel to the injection chamber (22) for purposes of initiating metering.

IPC 1-7
F02M 59/10

IPC 8 full level
F02M 45/00 (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 59/10** (2006.01); **F02M 59/36** (2006.01)

CPC (source: EP US)
F02M 47/027 (2013.01 - EP US); **F02M 59/105** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US)

Citation (examination)
EP 0032168 A1 19810722 - BOSCH GMBH ROBERT [DE]

Cited by
EP0289467A1

Designated contracting state (EPC)
AT BE DE GB IT LU NL SE

DOCDB simple family (publication)
EP 0077716 A1 19830427; **EP 0077716 B1 19850529**; AT E13580 T1 19850615; DE 3263913 D1 19850704; ES 516408 A0 19830616; ES 8307336 A1 19830616; FR 2514827 A1 19830422; FR 2514827 B1 19831223; JP H0579824 B2 19931104; JP S5879663 A 19830513; PT 75579 A 19821001; PT 75579 B 19841126; US 4440133 A 19840403

DOCDB simple family (application)
EP 82401861 A 19821011; AT 82401861 T 19821011; DE 3263913 T 19821011; ES 516408 A 19821011; FR 8119395 A 19811015; JP 18004682 A 19821015; PT 7557982 A 19820920; US 42491682 A 19820927