

Title (en)
INJECTION PUMP FOR AN INTERNAL-COMBUSTION ENGINE COMPRISING A MECHANISM FOR CONTROLLING THE START OF THE FUEL INJECTION DELIVERY

Publication
EP 0063523 B1 19840926 (FR)

Application
EP 82400665 A 19820414

Priority
FR 8107685 A 19810416

Abstract (en)
[origin: ES8304266A1] Internal combustion engine fuel injection pump of the type comprising an injection piston having a head with a helical ramp and provided with a device for adjusting in time the beginning of the fuel injection delivery. The adjusting device comprises a valve for closing and opening a bypass passage adapted to connect the said admission chamber to a space communicating with the chamber filling fuel source, and a system for the control of the valve including a control device for closing the valve depending on the angular position of a rotary member of the engine, such as a crankshaft, and for opening the valve in response to a partial vacuum created in the admission chamber by the suction stroke of the injection piston.

IPC 1-7
F02M 59/36

IPC 8 full level
F02M 59/20 (2006.01); **F02D 1/02** (2006.01); **F02M 59/36** (2006.01); **F02M 65/00** (2006.01)

CPC (source: EP KR US)
F02M 59/36 (2013.01 - EP KR US); **F02M 59/365** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US)

Cited by
EP0195920A3; GB2132706A; FR2538456A1; EP0111200A1; US4630588A

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

DOCDB simple family (publication)
EP 0063523 A1 19821027; EP 0063523 B1 19840926; EP 0063523 B2 19891004; AT E9606 T1 19841015; AU 549787 B2 19860213; AU 8267482 A 19821021; BR 8202126 A 19830322; CS 261858 B2 19890210; CS 274782 A2 19880715; DD 202197 A5 19830831; DE 3260819 D1 19841031; DK 155290 B 19890320; DK 155290 C 19890807; DK 161982 A 19821017; ES 511459 A0 19830216; ES 8304266 A1 19830216; FI 70300 B 19860228; FI 70300 C 19860915; FI 821295 A0 19820413; FI 821295 L 19821017; FR 2504203 A1 19821022; FR 2504203 B1 19850531; IN 157868 B 19860712; JP H0413552 B2 19920310; JP S57181967 A 19821109; KR 830010291 A 19831230; KR 880001501 B1 19880816; NO 156801 B 19870817; NO 156801 C 19871125; NO 821235 L 19821018; PL 137665 B1 19860731; PL 236003 A1 19821108; SU 1192636 A3 19851115; US 4705006 A 19871110; YU 45861 B 19920907; YU 84482 A 19890228

DOCDB simple family (application)
EP 82400665 A 19820414; AT 82400665 T 19820414; AU 8267482 A 19820416; BR 8202126 A 19820414; CS 274782 A 19820416; DD 23906782 A 19820416; DE 3260819 T 19820414; DK 161982 A 19820407; ES 511459 A 19820415; FI 821295 A 19820413; FR 8107685 A 19810416; IN 290DE1982 A 19820412; JP 6376682 A 19820416; KR 820001642 A 19820414; NO 821235 A 19820415; PL 23600382 A 19820416; SU 3426508 A 19820415; US 36798082 A 19820413; YU 84482 A 19820416