

Title (en)
FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES

Publication
EP 0185914 B1 19900207 (DE)

Application
EP 85114587 A 19851116

Priority
DE 3447374 A 19841224

Abstract (en)
[origin: US4708114A] A fuel injection pump for internal combustion engines is proposed, in which for normal engine operation the control of the injection quantity and of the beginning and end of supply for injection is effected by means of a control slide which is axially displaceable on the pump piston and in which a radial bore (connecting conduit) controlled by the pump piston is present in the pump cylinder, with which radial bore the pump work chamber can be made to communicate with the suction chamber of the pump. The latest end of supply for the injection is determined in that after a predetermined stroke of the pump piston a relief conduit is arranged to coincide with the radial bore and thereby relieve the pump work chamber. Because the radial bore is only blocked after a pre-stroke has been executed by the pump piston the earliest supply onset also can be controlled with this bore as well.

IPC 1-7
F02M 59/24; **F02M 59/26**; **F02M 59/36**

IPC 8 full level
F02M 59/24 (2006.01); **F02M 59/26** (2006.01); **F02M 59/36** (2006.01)

CPC (source: EP US)
F02M 59/26 (2013.01 - EP US); **F02M 59/361** (2013.01 - EP US)

Citation (examination)
DE 3017730 A1 19811112 - BOSCH GMBH ROBERT [DE]

Cited by
EP0185915A3

Designated contracting state (EPC)
AT DE FR GB IT

DOCDB simple family (publication)
EP 0185914 A2 19860702; **EP 0185914 A3 19880107**; **EP 0185914 B1 19900207**; AT E50320 T1 19900215; DE 3447374 A1 19860710; DE 3575979 D1 19900315; JP H0561465 B2 19930906; JP S61157753 A 19860717; US 4708114 A 19871124

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