

Title (en)

FUEL INJECTION PUMP FOR INTERNAL COMBUSTION ENGINES

Publication

**EP 0261156 B1 19901122 (DE)**

Application

**EP 87901398 A 19870320**

Priority

DE 3609759 A 19860322

Abstract (en)

[origin: WO8705665A1] A fuel injection pump for internal combustion engines is equipped with a reciprocating pump piston (3) and a distributor (5) slidable thereon with a control drilling (28) which cooperates with an oblique groove (15) on the pump piston (3) which is linked via a passage (24, 25) with the working chamber (26) of the pump. To control the initiation of pumping the oblique groove (15) is linked with a cylindrical depression (21) at its end region (22) located at a distance from the pump working chamber. In addition, in the case of relatively shallow oblique grooves (15) the pump working chamber can be linked in the region of the end (23) of the control groove (15) with a second depression in order to ensure that zero delivery is achieved.

IPC 1-7

**F02M 59/24**

IPC 8 full level

**F02M 59/24** (2006.01); **F02M 59/26** (2006.01)

CPC (source: EP US)

**F02M 59/24** (2013.01 - EP US); **F02M 59/265** (2013.01 - EP US)

Citation (examination)

DE 3428174 A1 19860213 - BOSCH GMBH ROBERT [DE]

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 8705665 A1 19870924**; BR 8706768 A 19880223; DE 3766331 D1 19910103; EP 0261156 A1 19880330; EP 0261156 B1 19901122; JP H086659 B2 19960129; JP S63503076 A 19881110; US 4830587 A 19890516

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**DE 8700125 W 19870320**; BR 8706768 A 19870320; DE 3766331 T 19870320; EP 87901398 A 19870320; JP 50186087 A 19870320; US 13515887 A 19871118