

Title (en)
Injection pump for internal-combustion engines.

Title (de)
Einspritzpumpe für Brennkraftmaschinen.

Title (fr)
Pompe d'injection pour moteurs à combustion interne.

Publication
EP 0018354 A1 19801029 (DE)

Application
EP 80890045 A 19800415

Priority
AT 287479 A 19790417

Abstract (en)
1. A fuel-injection pump for internal combustion engines with a flanged plunger bushing inserted into a bore of the pump housing, said bushing containing a first and a second control bore for each pump element - of which the second is located opposite the first along the same axis - and guiding the plunger and its two upper and one lower control edges, the first control bore corresponding to the first upper control edge and passing through said plunger bushing in a straight line, and the second control bore corresponding to the second upper control edge and to the lower control edge of said plunger, wherein the second control bore ends in a cross-hole preferably positioned at right angles relative to the axis of said plunger and to that of said control bores, and wherein only the second control bore is opened by the lower control edge at the end of the feed stroke.

Abstract (de)
Einspritzpumpe mit einer Kolbenbüchse (4), die eine erste (16) und eine gleichachsig gegenüberliegende zweite (17) Steuerbohrung besitzt, wobei die Steuerbohrungen (16, 17) mit den Steuerkanten (20, 20', 21') des Pumpenkolbens (5) zusammenarbeiten. Zur Verhinderung von Materialausschwemmungen bei Beginn der Öffnung der zweiten Steuerbohrung (17), mündet diese Steuerbohrung (17) in eine Querböhrung (19). Diese Querböhrung (19) bewirkt eine Ablenkung und Dämpfung des Absteuerstrahles.

IPC 1-7
F02M 59/26; **F02M 55/00**

IPC 8 full level
F02M 55/00 (2006.01); **F02M 59/26** (2006.01)

CPC (source: EP)
F02M 55/001 (2013.01); **F02M 59/265** (2013.01)

Citation (search report)
• GB 359384 A 19311029 - NAPIER & SON LTD, et al
• DE 2220164 A1 19721214
• DE 861762 C 19530105 - EIDENEIER FRITZ DIPL-ING
• GB 429667 A 19350604 - BOSCH ROBERT
• DE 1947763 A1 19700402 - CAV LTD
• FR 1318296 A 19630215 - BOSCH GMBH ROBERT

Cited by
EP0090791A1; US5285758A

Designated contracting state (EPC)
AT DE FR GB IT

DOCDB simple family (publication)
EP 0018354 A1 19801029; **EP 0018354 B1 19821110**; AT 362199 B 19810427; AT A287479 A 19800915; DE 3061056 D1 19821216; JP S55139966 A 19801101; JP S5855349 B2 19831209; PL 223503 A1 19810227; YU 104180 A 19830121

DOCDB simple family (application)
EP 80890045 A 19800415; AT 287479 A 19790417; DE 3061056 T 19800415; JP 5023080 A 19800415; PL 22350380 A 19800416; YU 104180 A 19800416