

Title (en)

Fuel injection pump for internal-combustion engines.

Title (de)

Kraftstoffeinspritzpumpe für Brennkraftmaschinen.

Title (fr)

Pompe d'injection de combustible pour moteurs à combustion interne.

Publication

EP 0192978 A1 19860903 (DE)

Application

EP 86101107 A 19860128

Priority

DE 3507014 A 19850228

Abstract (en)

1. Fuel injection pump for internal-combustion engines with a distributor piston (17), which executes a rotary stroke in a cylinder of the casing of the pump and feeds fuel to the cylinders of the internal-combustion engine according to its stroke and delivery phases and with a cam plate (15), which can be driven by a shaft (11) and has a pressure cam (45) and an interception cam (46), and with a plurality of pressure rollers (33), which are supported axially on the casing and are mounted in roller ring (28) and of interception rollers (41), which are mounted in a counter-roller ring (35), both roller rings being supported axially on the casing (10), on which rollers the cams roll and thereby bring about a guidance of the cam plate (15) effecting the rotary stroke, characterized in that the force of at least one spring (55) acts on the counter-roller ring (35), by which force the counter-roller ring (35) can be displaced by an amount determined by a stop (57, 58, 60) and defining a play.

Abstract (de)

Der Verteilerkolben (17) der Kraftstoffeinspritzpumpe für Brennkraftmaschinen führt im Gehäuse (10) einen Drehhub aus und führt entsprechend seinen Hub- und Förderphasen Kraftstoff den Zylindern zu. Die durch die Welle (11) angetriebene Hubscheibe (15) hat zwei zwischen Rollen (33, 41) zwangsgeführte Nockenbahnen (45, 46). Die Hubscheibe (15) ist während ihrer Beschleunigungs- und Verzögerungsphasen (1-4) mit Spiel zwischen den Rollen (33, 41) geführt.

IPC 1-7

F02M 41/12

IPC 8 full level

F02M 41/12 (2006.01)

CPC (source: EP)

F02M 41/121 (2013.01)

Citation (search report)

- [AD] DE 1039309 B 19580918 - BOSCH GMBH ROBERT
- [A] US 3220217 A 19651130 - ARTHUR KRAVITS

Cited by

EP0615063A1; US5474430A; WO9951880A3

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