

Title (en)

High pressure pump for feeding fuel injectors for internal combustion engines

Title (de)

Hochdruckpumpe zum Speisen von Kraftstoffeinspritzventilen für Verbrennungsmotoren

Title (fr)

Pompe à haute pression pour alimenter des injecteurs d'essence pour moteurs à explosion

Publication

EP 0687812 B1 19981028 (FR)

Application

EP 95401303 A 19950606

Priority

FR 9407493 A 19940617

Abstract (en)

[origin: FR2721352A1] The pump has an inclined plate (9) interacting with the rounded heads (14) of hollow axial pistons (13), and an intake chamber (8). The pump body (1) is cast in one piece with two sections, the first (1a) having a cylindrical chamber containing the pump shaft (5) and its bearings (4), while the second has a chamber containing the inclined plate on the end of the shaft and a cylindrical core (11) with parallel faces (11a, 11b), traversed by channels (12) containing the pistons. A second cylindrical core (16) has a flat front face applied against the rear face (11b) of the first core and carries non-return valves (17) facing each of the piston channels, while its rear end has a circular shoulder (18). A stopper (19) is screwed into the second section of the pump body and presses against the second core's shoulder to hold the two cores close together.

IPC 1-7

F02M 59/04; **F02M 59/08**; **F02M 63/00**; **F02M 63/02**

IPC 8 full level

F02M 59/04 (2006.01); **F02M 59/08** (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP US)

F02M 59/04 (2013.01 - EP US); **F02M 59/08** (2013.01 - EP US); **F02M 63/0001** (2013.01 - EP US); **F02M 63/02** (2013.01 - EP US); **F05C 2201/0478** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP US)

Cited by

DE19708917B4; FR2756594A1; DE19740436A1; DE19708922B4

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