

Title (en)

CYLINDER BLOCK FOR A HYDRAULIC WOBBLE PLATE PUMP

Publication

EP 0216740 B1 19900228 (FR)

Application

EP 86870120 A 19860825

Priority

BE 215530 A 19850902

Abstract (en)

[origin: EP0216740A1] 1. Hydraulic pump with hollow axial pistons (2) and a rotating swash plate (3), having : a pump body (1) which accommodates a plurality of cylindrical chambers which are parallel to the axis of the drive shaft (6) of the pump, abovementioned pistons driven in alternating movement by the rotation of the said swash plate (3) of the shaft (6) and by the pressure of springs (9) housed inside each of the pistons (2), each piston resting against the swash plate (3) via a block (8), the pistons being supplied, in the course of the traversing of the block (8) for the bearing of the pistons (2) against the face of the swash plate (3), through a crescent (12) cut on the said face, and discharge valves (15) mounted in the base of each cylinder in their extension, characterized in that the body of the pump (1) is formed from an outer tube (13) in which cylindrical sleeves (14) forming the pump cylinders are annularly distributed and, at the periphery of the said sleeves (14), threaded tubular inserts (17) intended to fasten the pump body (1) to an end frame (18), the free spaces (16) around the sleeves (14) and the inserts (17) inside the tube (13) being filled with a material having, after heat treating or setting, a good mechanical strength.

IPC 1-7

F04B 1/14

IPC 8 full level

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CPC (source: EP)

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