

Title (en)
A PUMP ASSEMBLY COMPRISING TWO DISPLACEMENT PUMPS

Title (de)
PUMPEINHEIT MIT ZWEI VERDRÄNGERPUMPEN

Title (fr)
ENSEMBLE POMPE COMPRENANT DEUX POMPES VOLUMETRIQUES

Publication
EP 0592395 B1 19960814 (EN)

Application
EP 90915533 A 19900905

Priority
SE 9000566 W 19900905

Abstract (en)
[origin: WO9204543A1] A pump of displacement type, designed to be driven hydraulically, comprises at least one pump housing chamber (5, 5A), one pump housing cylinder and a plunger (10, 10A) mounted in the pump housing cylinder, which plunger during the pump stroke is driven into the pump housing chamber, and one hydraulic cylinder with a driving chamber (42A, 58'), which can be connected to a pressure source in order to develop in the driving chamber a certain hydraulic pressure (Ph), which is to drive the plunger. A rinsing water chamber (34, 34', 134) contains a certain amount of rinsing water, which during the pump stroke by means of the hydraulic pressure is maintained at a pressure (Pv), which is higher than the pump pressure (Pp) but lower than the hydraulic pressure (Ph > Pv > Pp). In the pump housing cylinder at least one first annular element (17, 17') is fastened in the pump housing and faces the cylinder surface (16) of the plunger. On the rear side of the first annular element there is an annular space (22, 22', 122), which surrounds the plunger (10). The rinsing water from the rinsing water chamber (34, 34') is caused, during the pump stroke, to be fed to said space (22, 22') behind said first annular element, to flow through said space and subsequently to flow past said first annular element (17, 17') into said pump housing chamber.

IPC 1-7
F04B 15/02

IPC 8 full level
F04B 9/117 (2006.01); **F04B 11/00** (2006.01); **F04B 15/02** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP)
F04B 9/1178 (2013.01); **F04B 11/005** (2013.01); **F04B 53/164** (2013.01)

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
WO 9204543 A1 19920319; DE 69028123 D1 19960919; DE 69028123 T2 19970123; EP 0592395 A1 19940420; EP 0592395 B1 19960814; SE 467839 B 19920921; SE 8901213 D0 19890406; SE 8901213 L 19901007

DOCDB simple family (application)
SE 9000566 W 19900905; DE 69028123 T 19900905; EP 90915533 A 19900905; SE 8901213 A 19890406