

Title (en)

Hydraulic machine, in particular hydraulic pressure exchanger

Title (de)

Hydraulikmaschine, insbesondere Hydraulikdruckaustauscher

Title (fr)

Machine hydraulique, en particulier échangeur de pression hydraulique

Publication

EP 2837823 B1 20170426 (EN)

Application

EP 13180505 A 20130815

Priority

EP 13180505 A 20130815

Abstract (en)

[origin: EP2837823A1] A hydraulic machine (1) comprising a drum (2) rotatable around a rotational axis (3), a motor connection for driving said drum (2), a first front plate arrangement (5) at a first front face of said drum (2), a second front plate arrangement (5) at a second front face of said drum (2), said drum (2) comprising a plurality of cylinders (4), said first front plate arrangement (5) comprising a first front plate (7), a pressure shoe (8), and first sealing means (9), said first front plate (7) comprising at least a high pressure supply port (10). Such a pressure exchanger should have a simple construction. To this end, said pressure shoe (8) comprises at least a high pressure channel (17) connected to said high pressure supply port (10) and an outer pressure area (18) loaded by a pressure in said high pressure supply port (10) in a direction towards said drum (2), said outer pressure area (18) being larger than an inner pressure area (19) on a side of said pressure shoe (8) facing said drum (2).

IPC 8 full level

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CPC (source: EP US)

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