

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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