

Title (en)
HYDROSTATIC MACHINE

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EP 0384974 B1 19930901 (DE)

Application
EP 89123243 A 19891215

Priority
DE 3905936 A 19890225

Abstract (en)
[origin: EP0384974A1] The hydrostatic machine is designed as a radial piston machine, the pistons (16) of which slide in radial bores (17) in a rotor (18) and are supported by means of sliding shoes (15) on a lifting ring (13). The bores (17) have a lateral admission via slots (26) in the rotor which are joined to corresponding ducts (28, 29) in the housing (10) of the machine (so-called lateral admission radial piston machine). The axial thrust produced thereby on the rotor (18) and/or the shaft (19) is absorbed by a device (31) which comprises a disc (32) firmly located on the shaft (19), in contact with which disc are small pistons (39) which are arranged in bores (40) in the housing and acted on by the high pressure. In this way a short-circuited thrust equalisation is obtained from the rotor via the shaft and the disc (32) back to the rotor. This method of thrust equalisation makes it possible to reduce the dimensions of the machine. In addition this also results in improved noise characteristics. <IMAGE>

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IPC 8 full level
F04B 1/10 (2006.01); **F04B 1/107** (2006.01)

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