

Title (en)

Axial piston machine with hydrostatic relief of the cylinder bores

Title (de)

Axialkolbenmaschine mit hydrostatischer Entlastung der Zylinderbohrungen

Title (fr)

Machine axiale à pistons avec compensation hydrostatique des alésages des cylindres

Publication

EP 0943798 B1 20040818 (DE)

Application

EP 99105278 A 19990315

Priority

- DE 19811312 A 19980316
- DE 19815614 A 19980407

Abstract (en)

[origin: EP0943798A2] The axial piston machine has a drum (6) rotating round an axis (47), with cylinders (26) in which pistons (29) supported by a swash plate (3) move. The bore walls have recesses for the hydraulic relief of the sliding motion of the pistons in the cylinders, in the form of elongated relief grooves running spirally or in a zigzag. Alternatively, the borings may be of oval cross section and the pistons of circular cross section, forming intermediate relief cavities

IPC 1-7

F04B 1/20; F01B 3/00; F04B 53/16

IPC 8 full level

F01B 3/00 (2006.01); **F04B 1/20** (2006.01)

CPC (source: EP)

F01B 3/0041 (2013.01); **F04B 1/2007** (2013.01)

Cited by

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