

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 A3 20000628 (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)

Citation (search report)

- [A] DE 2534001 A1 19770217 - HAMMELMANN PAUL
- [A] FR 1595812 A 19700615
- [AD] DE 1403754 A1 19690123 - MINI OF TECHNOLOGY
- [X] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 10 30 November 1995 (1995-11-30)

Cited by

DE102021208329A1; DE102022207272A1

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