

Title (en)  
AXIAL PISTON MACHINE

Publication  
**EP 0105222 A3 19850515 (DE)**

Application  
**EP 83108866 A 19830908**

Priority  
DE 3233579 A 19820910

Abstract (en)  
[origin: US4520712A] A rotating drum-shaped cylinder block with pistons longitudinally displaceable in the cylinder bores is mounted in the housing of a reciprocating-piston pump of inclined-disc construction. The cylinder block is fitted on the free end of a rotating driving shaft which, in a median zone along its length, is mounted on two roller bearings in a bearing box which is completely sealed off from the machine housing. The pistons are supported in piston shoes on a stationary inclined disc the inclined position of which can be adjusted in the machine housing. For the purpose of sealing off the machine housing from the bearing box, there are slide-ring sealing means composed of a rotating ring secured to the driving shaft and of a stationary ring in the machine housing.

IPC 1-7  
**F01B 3/00**

IPC 8 full level  
**F01B 3/00** (2006.01)

CPC (source: EP US)  
**F01B 3/00** (2013.01 - EP US)

Citation (search report)  
• FR 2140065 A1 19730112 - GALILEO SPA OFF  
• US 3690789 A 19720912 - SPENCE PETER  
• CH 424486 A 19661115 - MOBAX LIMITED [GB]  
• DE 2740821 A1 19790322 - HEMSCHIEDT MASCHF HERMANN  
• E. MAYER: "Mechanical Seals". Second ed, 1972, Iliffe Books, London, (GB) \*seiten 1-7; seite 111, Absatz 1; figur 1.5 \*  
• PATENT ABSTRACTS OF JAPAN, Band 7, Nr. 5 (M-184) (1150), Januar 11, 1983, seite 12 & JP-A-57163174 (Hitachi Seisakusho K.K.) 07-10-1982

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**EP 83108866 A 19830908; AT 83108866 T 19830908; DE 3233579 A 19820910; US 54756683 A 19831101**