

Title (en)

Axial piston pump with adjustable control plate

Title (de)

Axialkolbenmaschine mit variabler Fixierung der Steuerscheibe

Title (fr)

Machine à piston axiaux comportant un disque de commande adjustable

Publication

EP 0837241 A3 19980722 (DE)

Application

EP 97117281 A 19971006

Priority

DE 19643389 A 19961021

Abstract (en)

[origin: DE19643389C1] The plungers work in a drum (6) rotating about its axis, while a connection plate (26) contains low and high pressure ports (60,61). Other ports in a control plate (25) connect the piston bores in the cylinder cyclically with the low and high pressure ones. One or more locking pins (43), accessible from the side of the connection plate furthest from the control plate, determine the relative angular positions of the two plates. There can be two or more recesses in each plate, the angular interval between those in the connection plate being different from that between those in the control plate. The recesses can be formed by round bores (49,50) or part-circular recesses. When two of these are aligned they determine one particular angular position.

IPC 1-7

F04B 1/20

IPC 8 full level

F04B 1/20 (2006.01)

CPC (source: EP)

F04B 1/2042 (2013.01)

Citation (search report)

- [A] FR 2476762 A2 19810828 - LEDUC & FILS RENE [FR], et al
- [A] DE 3743125 A1 19890706 - BRUENINGHAUS HYDRAULIK GMBH [DE]
- [A] FR 2582738 A1 19861205 - LEDUC RENE HYDRO SA [FR]
- [A] US 4034652 A 19770712 - HUEBNER ROBERT J

Cited by

EP1757811A1; CN102220972A; WO2005042975A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 19643389 C1 19980102; DE 59703045 D1 20010405; EP 0837241 A2 19980422; EP 0837241 A3 19980722; EP 0837241 B1 20010228

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