

Title (en)  
Axial piston pump.

Title (de)  
Axialkolbenpumpe.

Title (fr)  
Pompe à piston axial.

Publication  
**EP 0421461 A1 19910410 (DE)**

Application  
**EP 90119160 A 19901005**

Priority  
CH 366689 A 19891006

Abstract (en)  
[origin: JPH03124976A] PURPOSE: To simply carry out stroke motion of a plunger in a wear-resistant manner by providing such an arrangement that a cam transmission device has a cam support and an engaging member therefor, and the relative position of the cam support limits the stroke of the plunger during one revolution. CONSTITUTION: A periodical axial motion Y of a plunger 6 is carried out by a cam transmission device which is composed of a cam support 8 extending annularly about the plunger axis, and an engaging member 9 operatively connected to the cam support 8. The relative position of the cam support 8 limits the stroke of the plunger 6 during one revolution. With this arrangement, the cam transmission device is relatively tough and wear-resistant in comparison with a conventional one, and a completely different means can be selected in accordance with a position and an arrangement of the cam support 8 and the engaging member 9. Thereby it is possible to provide an axial plunger pump which can simply carry out the stroke motion of the plunger 6 in a wear- resistance manner as far as possible.

Abstract (de)  
Die periodische axiale Bewegung des Drehkolbens (6) wird durch ein Kurvengetriebe ausgeführt, das einen um die Kolbenachse umlaufenden Kurventräger (8) und ein mit dem Kurventräger in Wirkverbindung stehendes Eingriffsglied (9) aufweist. Die Relativlage des Kurventrägers bestimmt dabei den Kolbenhub im Verlaufe einer Umdrehung. Bei dieser Anordnung kann die Antriebswelle (5) koaxial mit dem Kolben (6) verlaufen. Besonders vorteilhaft wird das Eingriffsglied unter Federvorspannung gegen den Kurventräger gepresst.

IPC 1-7  
**F04B 7/06**

IPC 8 full level  
**F04B 9/04** (2006.01); **F04B 7/06** (2006.01)

CPC (source: EP US)  
**F04B 7/06** (2013.01 - EP US)

Citation (search report)  
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Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0421461 A1 19910410**; CH 679172 A5 19911231; JP H03124976 A 19910528; US 5102310 A 19920407

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