

Title (en)

Axial piston machine with swash plate.

Title (de)

Axialkolbenmaschine in Schrägscheibenbauweise.

Title (fr)

Moteur à pistons axiaux à plateau incliné.

Publication

EP 0433730 B1 19940223 (DE)

Application

EP 90122886 A 19901129

Priority

DE 3942189 A 19891220

Abstract (en)

[origin: US5095807A] The invention relates to an axial piston machine of the swashplate type in which the drive shaft passes through the swash plate, the swash plate can be tilted about an effective tilt axis so that its working surface supporting the pistons has a radial component of motion relative to the drive shaft as it is tilted in the direction of which the effective tilt axis is displaced parallel as the swashplate is tilted. In order to adjust the swashplate to a larger tilt angle, according to the invention the effective tilt axis is adjusted radially in a direction opposite to the direction of the radial component of motion (R) of the swashplate working surface.

IPC 1-7

F01B 3/10; F04B 1/20

IPC 8 full level

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CPC (source: EP US)

F01B 3/0032 (2013.01 - EP US); **F04B 1/2085** (2013.01 - EP US); **F04B 1/324** (2013.01 - EP US); **Y10T 74/18336** (2015.01 - EP US)

Cited by

EP0661478A1; EP0793018A4; FR2716939A1; US5649468A; WO2014187545A1; WO2016045849A1

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