

Title (en)
Piston pump with variable eccentricity

Title (de)
Kolbenpumpe mit variabler Exzentrizität

Title (fr)
Pompe à pistons avec excentricité variable

Publication
EP 2006544 A3 20090218 (DE)

Application
EP 08005400 A 20080322

Priority
AT 9372007 A 20070618

Abstract (en)
[origin: EP2006544A2] The pump has displacing units (6) movable from a mantle surface (18) of an eccentric sleeve (17) against fluid pressure, where the displacing units are movable radial to a main axis (16) of the pump. A spring unit (39) acts on the eccentric sleeve in an axial direction, and a pump shaft section (23) is formed as a narrow eccentric pin (24) with an eccentric pin axis (25), which runs to the main axis at an angle of inclination (26). The eccentric sleeve is guided to the eccentric pin and has a cylindrical mantle surface whose ends (20) run parallel to the main axis. An independent claim is also included for a method for driving a fluid driven motor of a hydraulic cylinder or a hydraulic motor.

IPC 8 full level
F04B 49/20 (2006.01)

CPC (source: EP US)
F04B 1/07 (2013.01 - EP US); **F04B 49/125** (2013.01 - EP US); **Y10T 83/869** (2015.04 - EP US)

Citation (search report)

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- [A] US 3119280 A 19640128 - MANN ROBERT W, et al
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
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DOCDB simple family (application)
EP 08005400 A 20080322; AT 08005400 T 20080322; AT 2008000199 W 20080606; AT 9372007 A 20070618; DE 502008002260 T 20080322; US 66497109 A 20090606