

Title (en)  
RADIAL PISTON PUMP

Title (de)  
RADIALKOLBENPUMPE

Title (fr)  
POMPE A PISTONS RADIAUX

Publication  
**EP 1230481 B1 20041222 (DE)**

Application  
**EP 00975952 A 20001028**

Priority  
• DE 19953248 A 19991104  
• EP 0010640 W 20001028

Abstract (en)  
[origin: WO0133077A1] The invention relates to a radial piston pump, comprising an inlet chamber with an inlet connection, an eccentric which may be driven in a rotating manner, arranged within the inlet chamber, for driving at least one piston of the radial piston pump, a cylinder bore for guiding the piston and an inlet controller, which opens and closes a connection between the inlet chamber and the cylinder bore, depending upon the piston position. The radial piston pump is characterised by at least one balancing element (24, 25) for the eccentric (17), which rotates synchronously with the eccentric (17) in the inlet chamber (20), whereby the balancing element (24, 25) is so formed and/or so arranged in the inlet chamber (20), that a hydraulic resistance is formed between the inlet connector (8') and the inlet controller (31), or the flow of medium at the inlet controller (31) is unaffected.

IPC 1-7  
**F04B 1/04**

IPC 8 full level  
**F04B 1/04** (2006.01); **F04B 1/047** (2006.01); **F04B 1/053** (2006.01); **F04B 49/22** (2006.01)

CPC (source: EP US)  
**F04B 1/0404** (2013.01 - EP US); **F04B 49/225** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 0133077 A1 20010510**; DE 10083435 D2 20020926; DE 19953248 A1 20010523; DE 50009061 D1 20050127; EP 1230481 A1 20020814; EP 1230481 B1 20041222; JP 2003514173 A 20030415; JP 4565792 B2 20101020; US 6779986 B1 20040824

DOCDB simple family (application)  
**EP 0010640 W 20001028**; DE 10083435 T 20001028; DE 19953248 A 19991104; DE 50009061 T 20001028; EP 00975952 A 20001028; JP 2001535735 A 20001028; US 12945002 A 20020813