

Title (en)

RADIAL PISTON PUMP COMPRISING A PLANE SEAL BETWEEN THE FLANGE AND THE HOUSING

Title (de)

RADIALKOLBENPUMPE MIT FLACHIGER DICHTUNG ZWISCHEN FLANSCH UND GEHÄUSE

Title (fr)

POMPE À PISTON RADIAL POURVUE D'UNE GARNITURE D'ÉTANCHEITÉ PLANE ENTRE LE FLASQUE ET LE CARTER

Publication

EP 1576288 A1 20050921 (DE)

Application

EP 03799410 A 20030811

Priority

- DE 0302705 W 20030811
- DE 10253189 A 20021115

Abstract (en)

[origin: WO2004046547A1] The invention relates to a radial piston pump comprising a flange part and a housing part, a pumping element which is arranged in the housing part, and an eccentric drive shaft which actuates a piston that can be radially displaced in relation to the drive shaft in the pump element, seals a pumping volume in a displaceable manner, transports fuel out of a suction chamber into the pumping volume when said pumping volume enlarges, and, when the pumping volume diminishes, puts the fuel in the pumping volume under pressure and transports the same out of the pumping volume under high pressure. Said radial piston pump also comprises an inner chamber which receives the eccentricity, and a separating plane located between the housing part and the flange part and intersecting the inner chamber and the suction chamber. The inventive radial piston pump is characterised by a plane, single-component seal which is arranged in the separating plane and respectively seals the suction chamber, the environment of the radial piston pump, and the inner chamber, in relation to each other.

IPC 1-7

F04B 1/04

IPC 8 full level

F04B 1/04 (2006.01)

CPC (source: EP US)

F04B 1/0421 (2013.01 - EP US); **F04B 1/0448** (2013.01 - EP US)

Citation (search report)

See references of WO 2004046547A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

WO 2004046547 A1 20040603; CN 100429398 C 20081029; CN 1695008 A 20051109; DE 10253189 A1 20040527; EP 1576288 A1 20050921; JP 2006506572 A 20060223; US 2005084389 A1 20050421

DOCDB simple family (application)

DE 0302705 W 20030811; CN 03825180 A 20030811; DE 10253189 A 20021115; EP 03799410 A 20030811; JP 2004552366 A 20030811; US 50344604 A 20040804