

Title (en)

RADIAL PISTON PUMP WITH A ROLLER PLUNGER

Title (de)

RADIALKOLBENPUMPE MIT ROLLENSTÖßEL

Title (fr)

POMPE A PISTONS RADIAUX COMPRENANT UN POUSSOIR A GALET

Publication

EP 1797320 B1 20111005 (DE)

Application

EP 05774194 A 20050727

Priority

- EP 2005053671 W 20050727
- DE 102004048711 A 20041006

Abstract (en)

[origin: WO2006037673A1] The invention relates to a radial piston pump, comprising a pump housing (1) and at least one pump unit (2) comprising a pump piston (3) and a cylinder (4) wherein the pump piston (3) can be mounted such that it can be moved backwards and forth, wherein the pump unit (2) can be driven by means of a camshaft (5) mounted in the pump housing (1); and a roller plunger (6) is arranged between the camshaft (5) and the pump unit (2), consisting of a plunger (7) and a roller (8), wherein the plunger has a guide area (9) which is used to guide it a first slot-shaped guide groove (10) of the cylinder insert (4). The roller plunger (6) is thus reliably prevented from rotating inside the cylinder insert (4). Said radial piston pumps are particularly suited for high rotational speeds occurring in high-pressure fuel pumps.

IPC 8 full level

F04B 1/04 (2006.01); **F04B 49/00** (2006.01)

CPC (source: EP US)

F04B 1/0426 (2013.01 - EP US); **F04B 1/0439** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

DE 102004048711 A1 20060413; **DE 102004048711 B4 20060914**; CN 100473827 C 20090401; CN 101035984 A 20070912; EP 1797320 A1 20070620; EP 1797320 B1 20111005; US 2008034959 A1 20080214; US 7762176 B2 20100727; WO 2006037673 A1 20060413

DOCDB simple family (application)

DE 102004048711 A 20041006; CN 200580034090 A 20050727; EP 05774194 A 20050727; EP 2005053671 W 20050727; US 57679805 A 20050727