

Title (en)
RADIAL PISTON PUMP

Title (de)
RADIALKOLBENPUMPE

Title (fr)
UNITE DE POMPE A PISTONS RADIAUX

Publication
EP 1521914 B1 20100825 (DE)

Application
EP 03740096 A 20030617

Priority
• DE 0302024 W 20030617
• DE 10228552 A 20020626

Abstract (en)
[origin: WO2004003385A1] The invention relates to a radial piston pump unit for a high pressure injection system with a pump housing (1) in which a driveshaft (2) with an eccentric section (3) is mounted. A reciprocating ring (4) sits on the above section and drives at least one spring-loaded piston (5) which may be displaced in a direction radial to the drive axis (2). The driveshaft (2) is embodied to comprise an end region (6) which has a floating mounting and is also the drive for a fuel supply pump (8).

IPC 8 full level
F02M 39/00 (2006.01); **F02M 59/06** (2006.01); **F02M 59/10** (2006.01); **F02M 59/44** (2006.01); **F04B 1/04** (2006.01); **F04B 23/10** (2006.01); **F04B 53/16** (2006.01); **F04C 2/344** (2006.01)

CPC (source: EP US)
F02M 39/005 (2013.01 - EP US); **F02M 59/06** (2013.01 - EP US); **F02M 59/102** (2013.01 - EP US); **F02M 59/445** (2013.01 - EP US); **F04B 1/0404** (2013.01 - EP US); **F04B 23/103** (2013.01 - EP US); **F04B 23/12** (2013.01 - EP US); **F04B 53/16** (2013.01 - EP US); **F05C 2201/0442** (2013.01 - EP US)

Citation (examination)
EP 1013921 A2 20000628 - DENSO CORP [JP]

Cited by
CN104358664A

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 2004003385 A1 20040108; DE 10228552 A1 20040122; DE 10228552 B4 20060209; DE 10228552 B9 20070329; DE 10228552 B9 20070823; DE 50313020 D1 20101007; EP 1521914 A1 20050413; EP 1521914 B1 20100825; JP 2005535820 A 20051124; US 2005100448 A1 20050512; US 7118350 B2 20061010

DOCDB simple family (application)
DE 0302024 W 20030617; DE 10228552 A 20020626; DE 50313020 T 20030617; EP 03740096 A 20030617; JP 2004516484 A 20030617; US 1557304 A 20041217