Title (en)

PUMP

Title (de)

PUMPE

Title (fr)

POMPE

Publication

EP 1485619 B1 20070509 (DE)

Application

EP 03714804 A 20030312

Priority

- DE 10212239 A 20020319
- EP 0302524 W 20030312

Abstract (en)

[origin: WO03078841A1] The invention relates to a pump (1) with an oscillating part, wherein said pump has a housing (2) with a working chamber (3) and a crankcase (4) defined by said chamber by means of the pump part. A pump drive mechanism (6) with a drive shaft (7) is located inside said crankcase and the drive shaft is mounted on bearing (8, 9) that are arranged in the walls of the crankcase. At least one of said bearings is mounted in a passage hole (11) in a crankcase wall. The pump has a suction inlet separate from the crankcase. The pump (1) according to the invention is characterized in that at least one flow channel is provided in the crankcase wall for compensating pressure in the crankcase when the pump part oscillates and in that a flow damper is arranged in the at least one flow channel. In a preferred embodiment, the at least one passage hole having at least one bearing is configured as a flow channel.

IPC 8 full level

F04B 53/16 (2006.01); **F04B 9/04** (2006.01); **F04B 39/12** (2006.01); **F04B 43/02** (2006.01); **F04B 45/04** (2006.01); **F04B 53/00** (2006.01); **F04B 53/06** (2006.01)

CPC (source: EP US)

F04B 39/128 (2013.01 - EP US); **F04B 45/04** (2013.01 - EP US); **F04B 53/001** (2013.01 - EP US); **F04B 53/006** (2013.01 - EP US); **F04B 53/06** (2013.01 - EP US); **F04B 53/16** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 03078841 A1 20030925; DE 10212239 A1 20031009; DE 50307237 D1 20070621; EP 1485619 A1 20041215; EP 1485619 B1 20070509; JP 2005527727 A 20050915; TW 200304986 A 20031016; TW 576895 B 20040221; US 2005112004 A1 20050526; US 7270048 B2 20070918

DOCDB simple family (application)

EP 0302524 W 20030312; DE 10212239 A 20020319; DE 50307237 T 20030312; EP 03714804 A 20030312; JP 2003576816 A 20030312; TW 92105352 A 20030312; US 50785604 A 20040915