

Title (en)

AXIAL COMPENSATION IN AN INNER GEARED PUMP FOR A CLOSED CIRCUIT

Title (de)

AXIALKOMPENSATION EINER INNENZAHNRADPUMPE FÜR DEN GESCHLOSSENEN KREISLAUF

Title (fr)

COMPENSATION AXIALE D'UNE POMPE A DENTURE INTERIEURE POUR LE CIRCUIT FERME

Publication

EP 1192357 B1 20040922 (DE)

Application

EP 00951342 A 20000705

Priority

- DE 19930911 A 19990706
- EP 0006341 W 20000705

Abstract (en)

[origin: DE19930911C1] The geared pump with inner teeth has a pinion (1) with external teeth and a hollow wheel (2) with internal teeth which meshes with the pinion. The pump has a housing (6) and a filling of two identical filler parts (3,4) in the sickle-shaped zone between the pinion (1) and hollow wheel (2). A limit stop pin (5) is in the housing (6), against the end surfaces (5.1,5.2) of the fillers (3,4). An axial disk is on both sides of the pinion (1), and an axial pressure spring is between the disks and the housing (6). A control spring is between each axial disk and the pinion (1).

IPC 1-7

F04C 2/10; F04C 15/04; F04C 15/00

IPC 8 full level

F04C 2/10 (2006.01); **F04C 14/04** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)

F04C 2/101 (2013.01 - EP US); **F04C 14/04** (2013.01 - EP US); **F04C 15/0026** (2013.01 - EP US)

Designated contracting state (EPC)

DK FR GB IT NL

DOCDB simple family (publication)

DE 19930911 C1 20000720; DK 1192357 T3 20050124; EP 1192357 A1 20020403; EP 1192357 B1 20040922; JP 2003503641 A 20030128; US 6659748 B1 20031209; WO 0102729 A1 20010111

DOCDB simple family (application)

DE 19930911 A 19990706; DK 00951342 T 20000705; EP 0006341 W 20000705; EP 00951342 A 20000705; JP 2001507935 A 20000705; US 1979602 A 20020430