

Title (en)
Gear pump

Title (de)
Zahnradförderpumpe

Title (fr)
Pompe à engrenages

Publication
EP 1291526 B2 20200318 (EN)

Application
EP 02020146 A 20020909

Priority
IT BO20010540 A 20010907

Abstract (en)
[origin: EP1291526A2] A positive-displacement rotary pump comprising a pair of meshing gears (13, 14) or rotors, consisting of a driving gear and a driven gear, contained in a shell (10) having an output opening and an intake opening for a fluid. The gears (13, 14) comprise shafts (23, 24) which are supported by bushings (15a, 15b) having two faces (17a, 17b) which are subjected, in use, to pressures which bring about an axial load on the bushing itself, characterized in that the resultant of the axial loads (S', S'') on the two bushings has a predetermined direction so as to move the bushings (15a, 15b) and the gears (13, 14) as a whole into close abutment with a predetermined reference plane (VI-VI). <IMAGE>

IPC 8 full level
F04C 2/18 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 15/0026 (2013.01); **F04C 15/0042** (2013.01)

Cited by
JP2012519799A; JPWO2013186839A1; CN102348897A; EP2063126A3; CN102362073A; EP3792493A1; WO2015082257A1; WO2015040962A1; WO2010102723A3; WO2014141377A1; WO2010102723A2; DE102009012916A1; WO2010102724A2; DE102009012854A1; EP2354551A2; DE102010005900A1; WO2010102722A2; DE102009012853A1; DE102009012856A1; US8979518B2; JP2012519798A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
EP 1291526 A2 20030312; EP 1291526 A3 20031112; EP 1291526 B1 20140305; EP 1291526 B2 20200318; IT BO20010540 A0 20010907; IT BO20010540 A1 20030307

DOCDB simple family (application)
EP 02020146 A 20020909; IT BO20010540 A 20010907