

Title (en)

GEAR PUMP FOR DELIVERING A LIQUID

Title (de)

ZAHNRADPUMPE ZUM FÖRDERN EINES FLIESSFÄHIGEN MEDIUMS

Title (fr)

POMPE A ENGRENAGES POUR LE REFOULEMENT D'UN LIQUIDE

Publication

**EP 0692073 A1 19960117 (DE)**

Application

**EP 94913058 A 19940326**

Priority

- DE 4310518 A 19930331
- EP 9400961 W 19940326

Abstract (en)

[origin: WO9423209A1] A gear pump or compressed air motor for delivering a liquid has the following characteristics: meshing pairs of gears (1, 2) with parallel axes; a housing (3) that encloses the gears and has an envelope wall (3.1, 3.2); an inner wall surface that forms delivering gaps with the gears, said delivering gaps extending over part of the circumference of the gears; a low pressure chamber arranged in the inlet area of the feeding gap provided with an inlet and a high pressure chamber arranged in the outlet area of the feeding gap, provided with an outlet for the liquid to be delivered; one of the gears is rigidly fixed to the housing whereas the other gear is movable in the axial direction. The invention has the following characteristics: the movable gear (1) carries a face wall (7, 8) firmly secured to each of its two ends; both face walls (7, 8) sealingly lie on the inner surface of the envelope wall (3.1, 3.2) of the housing (3); the inner wall surface is made of a wall (9) which interconnects both movable face walls (7, 8) and forms together with them a carriage movable in the housing (3); the fixed gear (2) carries at its free end a front wall (6) firmly linked thereto which sealingly lies on the inner surface of the wall (9).

IPC 1-7

**F04C 15/04**

IPC 8 full level

**F04C 2/18** (2006.01); **F03C 2/08** (2006.01); **F04C 14/18** (2006.01); **F04C 14/20** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP KR US)

**F04C 2/12** (2013.01 - KR); **F04C 14/185** (2013.01 - EP US); **F04C 2/18** (2013.01 - EP US)

Citation (search report)

See references of WO 9423209A1

Designated contracting state (EPC)

DK FR GB IT SE

DOCDB simple family (publication)

**DE 4310518 C1 19940728**; EP 0692073 A1 19960117; JP H09502234 A 19970304; KR 960702064 A 19960328; US 5620315 A 19970415; WO 9423209 A1 19941013

DOCDB simple family (application)

**DE 4310518 A 19930331**; EP 9400961 W 19940326; EP 94913058 A 19940326; JP 52165394 A 19940326; KR 19950704258 A 19950930; US 53021895 A 19950929