

Title (en)

Continuously variable annular gear pump

Title (de)

Stufenlos verstellbare Zahnringpumpe

Title (fr)

Pompe annulaire à engrenages continuellement variable

Publication

EP 0846861 B1 20030319 (DE)

Application

EP 97112646 A 19970723

Priority

- DE 29621073 U 19961204
- DE 29703369 U 19970225

Abstract (en)

[origin: EP0846861A1] The pump has a stationary housing (1) and an annular ring set (5) with inner rotor (3) and meshing outer rotor (4). The gear ratio of the inner rotor and the annular ring set is equal to 1. The bearing (12) of the outer rotor along its outer diameter (13) is inside the adjusting ring (14) of preferably the same width. The adjusting ring moves slip-free with its outer part circle (15) on an inner part circle (16). The difference between the diameters of the two part circles is double the eccentricity (17) of the ring set.

IPC 1-7

F04C 15/04

IPC 8 full level

F04C 2/08 (2006.01); **F04C 14/10** (2006.01)

CPC (source: EP)

F04C 2/084 (2013.01); **F04C 14/10** (2013.01); **F04C 2270/052** (2013.01); **F04C 2270/20** (2013.01)

Cited by

EP3034780A1; EP2738388A1; DE10338212A1; EP2261508A4; US9127671B2; WO2005093259A1; WO2005019650A1; DE202014106121U1; US9932982B2; WO03095840A1; WO0015976A1; US8950169B2; US9080568B2; US9309766B2; US10472966B2; DE202007018987U1; US9399994B2

Designated contracting state (EPC)

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EP 0846861 A1 19980610; **EP 0846861 B1 20030319**; AT E235003 T1 20030415; ES 2192242 T3 20031001

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