

Title (en)

Rotary positive displacement hydraulic machines

Title (de)

Hydraulische Drehkolben-Verdrängungsmaschinen

Title (fr)

Machines hydrauliques rotatives à déplacement positif

Publication

**EP 0797002 A1 19970924 (EN)**

Application

**EP 97301811 A 19970318**

Priority

GB 9605941 A 19960321

Abstract (en)

A rotary positive displacement hydraulic machine in the form of a gear pump or motor comprises a housing 10 incorporating two axially extending working chambers 11 and 12 arranged with their axes parallel to one another, and first and second gears 24, 25 and 27, 28 mounted in each chamber for rotation about the chamber axis to effect fluid pumping. Each gear in each chamber forms a meshing pair with a respective one of the gears in the other chamber. The first and second gears in each chamber are mounted so that their gear teeth are out of phase by about a quarter of a tooth pitch relative to one another. The gear teeth of the two gears of each meshing pair mesh with one another in such a manner that each tooth of each gear engages the flanks of two adjacent teeth of the other gear simultaneously along two parallel lines of contact. <IMAGE>

IPC 1-7

**F04C 11/00**

IPC 8 full level

**F04C 2/12** (2006.01); **F04C 2/18** (2006.01); **F04C 11/00** (2006.01)

CPC (source: EP)

**F04C 11/001** (2013.01)

Citation (search report)

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