

Title (en)

A positive-displacement rotary pump with helical rotors

Title (de)

Drehkolben-Verdrängungspumpe mit Schraubenrotoren

Title (fr)

Pompe rotative à déplacement positif avec de rotors hélicoïdaux

Publication

EP 1132618 A3 20020710 (EN)

Application

EP 01105738 A 20010308

Priority

IT BO20000119 A 20000308

Abstract (en)

[origin: EP1132618A2] A positive-displacement rotary pump comprises a pair of meshing rotors or gears (10, 11), that is, a driving rotor or gear and a driven rotor or gear, respectively, enclosed in a casing with a delivery opening and an intake opening for a fluid. The gears (10, 11) comprise a plurality of teeth (16a, 16b) meshing without encapsulation and at the same time defining sets of helical teeth with a face overlap substantially equal to or close to unity. The combination of a profile of the teeth which prevents encapsulation and of the helical arrangement of the teeth reduces ripple and the noise resulting therefrom when the pump is in operation. <IMAGE>

IPC 1-7

F04C 2/16

IPC 8 full level

F04C 2/08 (2006.01); **F04C 2/16** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)

F04C 2/084 (2013.01); **F04C 2/088** (2013.01); **F04C 2/16** (2013.01); **F04C 15/0042** (2013.01)

Citation (search report)

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