

Title (en)
SINGLE-SHAFT VACUUM POSITIVE DISPLACEMENT PUMP

Title (de)
EINWELLIGE VAKUUM-VERDRÄNGERPUMPE

Title (fr)
POMPE A VIDE VOLUMETRIQUE A ARBRE UNIQUE

Publication
EP 1851433 A1 20071107 (DE)

Application
EP 06707865 A 20060127

Priority
• EP 2006050481 W 20060127
• DE 102005008887 A 20050226

Abstract (en)
[origin: DE102005008887A1] The single shaft pump has two pump stages (12,14) and a drive motor (16) mounted axially between same. The shaft (22) supports two pump rotors (13,15) and the motor rotor (17). Two rolling bearings (32, 34) can be provided between the motor rotor and pump rotors. The shaft is surrounded by a stator housing which has no shaft seal. The motor rotor acts as a lubricant pump to pump lubricant from the high vacuum pump stage to the pre-vacuum pump stage on the output side.

IPC 8 full level
F04B 41/06 (2006.01); **F04C 23/00** (2006.01); **F04D 25/16** (2006.01)

CPC (source: EP KR US)
F04B 41/06 (2013.01 - EP KR US); **F04C 23/00** (2013.01 - KR); **F04C 23/001** (2013.01 - EP US); **F04C 23/005** (2013.01 - EP US); **F04C 25/02** (2013.01 - EP US); **F04D 25/16** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2006089828A1

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