

Title (en)

Screw rotor pump

Title (de)

Schraubenspindelpumpe

Title (fr)

Pompe à rotors à vis

Publication

EP 0727581 B1 19990210 (DE)

Application

EP 96105318 A 19910307

Priority

- DE 4007273 A 19900308
- EP 91710004 A 19910307

Abstract (en)

[origin: EP0451085A2] In the case of a screw rotor pump with a drive spindle and at least one running spindle, which are supported in a recess of a housing enclosing them between an intake chamber and a pressure chamber, the pressure-side profile run-out of the spindle (14) is conically tapered on the outside diameter (d) and the angle of inclination (w) of the tapered surface (43) is less than 10 DEG , and possibly less than 5 DEG or 3 DEG . In addition the spindle (14) may have a tapered surface (43s) with a corresponding angle of inclination (W1) on its intake side end.
<IMAGE>

IPC 1-7

F04C 2/16; F04C 15/00

IPC 8 full level

F04C 2/16 (2006.01); **F04C 2/08** (2006.01); **F04C 14/00** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP KR US)

F04C 2/084 (2013.01 - EP US); **F04C 15/0049** (2013.01 - EP US); **F04C 18/16** (2013.01 - KR)

Designated contracting state (EPC)

AT GB IT SE

DOCDB simple family (publication)

EP 0451085 A2 19911009; **EP 0451085 A3 19920708**; **EP 0451085 B1 19980812**; AT E169721 T1 19980815; AT E176717 T1 19990215; BR 9100993 A 19911105; EP 0727581 A1 19960821; EP 0727581 B1 19990210; JP 3036874 B2 20000424; JP H05231341 A 19930907; KR 0177815 B1 19990415; KR 910017081 A 19911105; US 5123821 A 19920623

DOCDB simple family (application)

EP 91710004 A 19910307; AT 91710004 T 19910307; AT 96105318 T 19910307; BR 9100993 A 19910308; EP 96105318 A 19910307; JP 6913891 A 19910308; KR 910003767 A 19910308; US 61767890 A 19901126