

Title (en)

Screw rotor pump

Title (de)

Schraubenspindelpumpe zum Fördern eines Strömungsmediums

Title (fr)

Pompe à rotors à vis

Publication

EP 1496257 A3 20050817 (DE)

Application

EP 04012939 A 20040529

Priority

- DE 20310651 U 20030710
- DE 20313288 U 20030826

Abstract (en)

[origin: EP1496257A2] The screw spindle pump has a drive spindle flanked by working spindles (30), whereby the turns (13,33) of the spindles are in contact. The spindles are provided at least partially with an elastic coating (40) which may consist of an elastomer or may be vulcanized on. The elastic coating is provided outside the pump casing on the suction side end of the spindles. The elastic coating may be constructed in cup form and fitted onto the end of the spindle.

IPC 1-7

F04C 2/16

IPC 8 full level

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

CPC (source: EP)

F04C 2/084 (2013.01); **F04C 2/165** (2013.01); **F04C 2230/91** (2013.01); **F05C 2225/02** (2013.01)

Citation (search report)

- [XY] CH 232200 A 19440515 - FRIED KRUPP GERMANIAWERFT AKTI [DE]
- [X] SU 1437575 A1 19881115 - CHESNOKOV IVAN M [SU], et al
- [X] US 5314321 A 19940524 - YAMAMOTO AKIHIKO [JP], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 007, no. 269 (M - 259) 30 November 1983 (1983-11-30) & DATABASE WPI Section PQ Derwent World Patents Index; Class Q56, AN 1989-157669, "Abrasive compound double-screw pump"

Cited by

CN106640628A; DE102018103446A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1496257 A2 20050112; **EP 1496257 A3 20050817**; **EP 1496257 B1 20070718**; AT E367528 T1 20070815; DE 20318594 U1 20040408; DE 502004004339 D1 20070830

DOCDB simple family (application)

EP 04012939 A 20040529; AT 04012939 T 20040529; DE 20318594 U 20031202; DE 502004004339 T 20040529