

Title (en)
DRY-COMPRESSING SCREW PUMP

Title (de)
TROCKENVERDICHTENDE SCHRAUBENSPINDELPUMPE

Title (fr)
POMPE A BROCHE HELICOIDALE A COMPRESSION A SEC

Publication
EP 1108143 A1 20010620 (DE)

Application
EP 99941399 A 19990629

Priority
• DE 9901879 W 19990629
• DE 19839501 A 19980829

Abstract (en)
[origin: US6497563B1] A dry-compressing screw pump in the form of a two-shaft positive displacement pump. A first and a second rotor spindle are disposed parallel to each other. The rotor spindles are hollow. A cooling medium is fed at a first front face of the rotor spindles and evacuated at a second front face of the rotor spindles. A cooling medium feeding and evacuation means is connected to an external cooling medium circuit. The inner diameter of the rotor spindles monotonously increases from the first front face toward the second front face so that the cooling medium is conveyed from the first front face to the second front face substantially under the influence of centrifugal force acting on the cooling medium due to the rotation of the rotor spindle.

IPC 1-7
F04C 18/16; **F04C 29/04**; **F04C 29/02**; **F04C 27/00**

IPC 8 full level
F04C 18/08 (2006.01); **F04C 18/16** (2006.01); **F04C 25/02** (2006.01); **F04C 27/00** (2006.01); **F04C 29/00** (2006.01); **F04C 29/02** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP KR US)
F04C 18/084 (2013.01 - EP US); **F04C 18/16** (2013.01 - EP KR US); **F04C 27/009** (2013.01 - EP US); **F04C 29/025** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US)

Citation (search report)
See references of WO 0012899A1

Cited by
DE102008019449A1

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AT BE CH DE DK ES FI FR GB IT LI LU NL PT SE

DOCDB simple family (publication)
US 6497563 B1 20021224; AT E248993 T1 20030915; AU 4902799 A 20000321; CA 2327080 A1 20000309; DE 19839501 A1 20000302; DE 59906892 D1 20031009; EP 1108143 A1 20010620; EP 1108143 B1 20030903; ES 2207965 T3 20040601; JP 2002523684 A 20020730; KR 100682586 B1 20070215; KR 20010043430 A 20010525; WO 0012899 A1 20000309; WO 0012900 A1 20000309

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