

Title (en)
FRICTION VACUUM PUMP WITH A STATOR AND A ROTOR

Title (de)
REIBUNGSVAKUUMPUMPE MIT STATOR UND ROTOR

Title (fr)
POMPE A VIDE A FRICTION AVEC STATOR ET ROTOR

Publication
EP 1119709 B1 20030507 (DE)

Application
EP 99940068 A 19990728

Priority
• DE 19846188 A 19981007
• EP 9905394 W 19990728

Abstract (en)
[origin: DE19846188A1] The invention relates to a friction vacuum pump (1) which is provided with a stator (3) comprising a set of stator blades which consists of several rows of stator blades. The pump is also provided with a rotor, comprising a set of rotor blades which consists of several rows of rotor blades. Once mounted and ready for operation, the rows of stator blades and the rows of rotor blades intermesh. According to the invention, the blades of one of these sets of blades are provided with slots (61) in order to enable production of such a pump (1) using substantially fewer parts. The arrangement, depth and width of said slots are chosen in such a way that the stator (9) and rotor (8) can be screwed together and unscrewed as required.

IPC 1-7
F04D 19/04; **F04D 29/64**; **F04D 29/66**

IPC 8 full level
F04D 19/04 (2006.01); **F04D 29/64** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F04D 19/04 (2013.01 - EP US); **F04D 29/644** (2013.01 - EP US); **F04D 29/668** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19846188 A1 20000413; DE 59905492 D1 20030612; EP 1119709 A1 20010801; EP 1119709 B1 20030507; JP 2002526720 A 20020820; US 6619911 B1 20030916; WO 0020762 A1 20000413

DOCDB simple family (application)
DE 19846188 A 19981007; DE 59905492 T 19990728; EP 9905394 W 19990728; EP 99940068 A 19990728; JP 2000574840 A 19990728; US 80710101 A 20010406