

Title (en)
FRICTION VACUUM PUMP

Title (de)
REIBUNGSVAKUUMPUMPE

Title (fr)
POMPE A VIDE A FRICTION

Publication
EP 1119710 B1 20020904 (DE)

Application
EP 99938360 A 19990728

Priority
• DE 19846189 A 19981007
• EP 9905395 W 19990728

Abstract (en)
[origin: DE19846189A1] The invention relates to a friction vacuum pump which is provided with a stator unit (9), a rotor unit (12) and a housing (2, 7). During operation of said pump, a narrow gap should be maintained between the stator and rotor. In order to maintain the narrow gaps, the invention provides that the stator (9) and rotor (8) are coupled to each other in such a manner that they practically perform identical oscillations. In addition, the system (3) consisting of the stator unit (9) and the rotor unit (8) is held in the housing (2, 7) by means of the oscillating elements (4, 5).

IPC 1-7
F04D 29/66; F04D 19/04; F04D 17/16

IPC 8 full level
F04D 17/16 (2006.01); **F04D 19/04** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)
F04D 17/168 (2013.01 - EP US); **F04D 19/04** (2013.01 - EP US); **F04D 19/044** (2013.01 - EP US); **F04D 29/668** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19846189 A1 20000413; DE 59902592 D1 20021010; EP 1119710 A1 20010801; EP 1119710 B1 20020904; JP 2002526721 A 20020820; US 6641376 B1 20031104; WO 0020763 A1 20000413

DOCDB simple family (application)
DE 19846189 A 19981007; DE 59902592 T 19990728; EP 9905395 W 19990728; EP 99938360 A 19990728; JP 2000574841 A 19990728; US 80705801 A 20010406