

Title (en)

Lubricating system for regenerative vacuum pumps

Title (de)

Schmierungsvorrichtung für Seitenkanalvakuumpumpen

Title (fr)

Dispositif de lubrification pour pompes à vide régénératives

Publication

EP 1267082 A3 20031015 (EN)

Application

EP 02253949 A 20020606

Priority

GB 0114397 A 20010613

Abstract (en)

[origin: EP1267082A2] In a vacuum pump of the regenerative type or including a regenerative section in which a rotatable substantially vertical shaft is supported by upper and lower bearings, a lubricating system for lubricating the bearings comprising an axial bore extending along the shaft and in communication with radial holes aligned respectively with the lower bearing and the upper bearing, the lower open end of the axial bore extending in to a shaft reservoir containing lubricating fluid, and in which the radial holes in alignment with the lower bearing are formed in a tapered surface of the axial bore <IMAGE>

IPC 1-7

F04D 29/06; **F04D 23/00**

IPC 8 full level

F04D 29/063 (2006.01); **F04D 19/04** (2006.01); **F04D 23/00** (2006.01); **F04D 29/06** (2006.01)

CPC (source: EP US)

F04D 17/168 (2013.01 - EP US); **F04D 23/008** (2013.01 - EP US); **F04D 29/063** (2013.01 - EP US)

Citation (search report)

- [A] FR 2136664 A5 19721222 - LEYBOLD HERAEUS VERWALTUNG
- [A] GB 923779 A 19630418 - LICENTIA GMBH

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1267082 A2 20021218; **EP 1267082 A3 20031015**; **EP 1267082 B1 20061018**; AT E343067 T1 20061115; DE 60215418 D1 20061130; DE 60215418 T2 20070830; GB 0114397 D0 20010808; JP 2003042091 A 20030213; US 2003000772 A1 20030102; US 2005271528 A1 20051208

DOCDB simple family (application)

EP 02253949 A 20020606; AT 02253949 T 20020606; DE 60215418 T 20020606; GB 0114397 A 20010613; JP 2002172444 A 20020613; US 14757705 A 20050608; US 16479502 A 20020607