

Title (en)

VACUUM PUMP AND METHOD FOR PRODUCING SAME

Title (de)

VAKUUMPUMPE UND VERFAHREN ZUR HERSTELLUNG EINER SOLCHEN

Title (fr)

POMPE À VIDE ET PROCÉDÉ DE FABRICATION D'UNE TELLE POMPE À VIDE

Publication

EP 3670924 B1 20211117 (DE)

Application

EP 19210020 A 20191119

Priority

EP 19210020 A 20191119

Abstract (en)

[origin: JP2021080917A] To facilitate the production of a Holweck groove.SOLUTION: A vacuum pump includes a Holweck pump stage 14, and the Holweck pump stage has a Holweck stator and a Holweck rotor that rotates about a rotor axis 12 during operation of the vacuum pump. The Holweck rotor interacts with the Holweck stator to produce pumping action, the Holweck pump stage has at least one threaded Holweck groove 16 and the Holweck groove is defined by at least one side wall 18. The side wall is a cross section on which the rotor axis is located, and is formed at least partially oblique to the rotor axis.SELECTED DRAWING: Figure 6

IPC 8 full level

F04D 19/04 (2006.01)

CPC (source: EP)

F04D 19/044 (2013.01); **F05D 2230/10** (2013.01)

Citation (examination)

- EP 1797331 A1 20070620 - OERLIKON LEYBOLD VACUUM GMBH [DE]
- US 7090460 B2 20060815 - ENGLAENDER HEINRICH [DE], et al

Cited by

WO2022112745A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3670924 A1 20200624; **EP 3670924 B1 20211117**; JP 2021080917 A 20210527; JP 7032500 B2 20220308

DOCDB simple family (application)

EP 19210020 A 20191119; JP 2020159322 A 20200924