

Title (en)
VANE MOTOR

Title (de)
LAMELLENMOTOR

Title (fr)
MOTEUR À PALETTES

Publication
EP 3746637 B1 20211117 (DE)

Application
EP 19704559 A 20190130

Priority
• DE 102018102393 A 20180202
• EP 2019052251 W 20190130

Abstract (en)
[origin: WO2019149753A1] The invention relates to a vane motor (1), comprising a rotor body (2), which is driven by compressed air and which has vane gaps (3) for radially movable vanes, and a rotor shaft (4) for rotatably mounting the rotor body (2) with respect to a motor bush (11). In order to provide a vane motor (1) and a method for lubricating a vane motor (1) that ensure particularly long, low-maintenance operation, the vane motor (1) being easy to maintain and being capable of particularly economical and environmentally friendly operation, it is provided that the rotor shaft (4) is designed as a hollow shaft having a first lubricant reservoir (5) in the interior, the first lubricant reservoir (5) having a lubricant introduction opening (6) accessible from the exterior (Ä) of the vane motor (1), and the first lubricant reservoir (5) being connected, by means of at least one radial lubricant bore (7), to at least one further lubricant reservoir (50) arranged in a portion (20) of the rotor body (2) between two vane gaps (3) and/or to an outlet opening (8) arranged in one of the vane gaps (3) for feeding lubricant into the vane gap (3).

IPC 8 full level
F01C 1/344 (2006.01); **F01C 21/04** (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP US)
F01C 1/344 (2013.01 - US); **F01C 1/3442** (2013.01 - EP); **F01C 21/04** (2013.01 - EP US); **F04C 18/3442** (2013.01 - US); **F04C 29/023** (2013.01 - EP US); **F04C 2210/1005** (2013.01 - EP); **F04C 2240/603** (2013.01 - US)

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)
WO 2019149753 A1 20190808; AU 2019216279 A1 20200924; AU 2019216279 B2 20240502; CA 3089171 A1 20190808; CN 111742113 A 20201002; CN 111742113 B 20220816; DE 102018102393 A1 20190808; DK 3746637 T3 20220124; EP 3746637 A1 20201209; EP 3746637 B1 20211117; ES 2905170 T3 20220407; PL 3746637 T3 20220307; SI 3746637 T1 20220429; US 11448071 B2 20220920; US 2021047929 A1 20210218

DOCDB simple family (application)
EP 2019052251 W 20190130; AU 2019216279 A 20190130; CA 3089171 A 20190130; CN 201980011027 A 20190130; DE 102018102393 A 20180202; DK 19704559 T 20190130; EP 19704559 A 20190130; ES 19704559 T 20190130; PL 19704559 T 20190130; SI 201930160 T 20190130; US 201916966239 A 20190130