

Title (en)
VANE MOTOR

Title (de)
FLÜGELMOTOR

Title (fr)
MOTEUR À PALETTES

Publication
EP 3839207 A1 20210623 (EN)

Application
EP 20020103 A 20200305

Priority
KR 20190171567 A 20191220

Abstract (en)
Disclosed is a vane motor including: a casing including an inlet port and an outlet port, through which a pressurized fluid comes in or out; and a rotor being installed in the casing, turning around a rotational shaft by the pressurized fluid and including a rotor body which has a substantially cylindrical shape and an axis coinciding with an axis of the rotational shaft and a plurality of vanes which is installed in grooves formed on an outer circumferential surface of the rotor body and has a portion protruding from the groove and having a length varied in accordance with a rotational phase, wherein a rear edge portion of the opening of the groove formed on the rotor body to receive the vane is partially removed to form an enlarged portion through which a rear surface of the vane is more exposed. According to the present invention, more pressurized fluid flows quickly in the space between the rotor body and the casing, thereby increasing the pressure applied to the vane and improving rotation efficiency of the rotor which is rotated by the pressure.

IPC 8 full level
F01C 21/08 (2006.01)

CPC (source: EP)
F01C 1/3442 (2013.01); **F01C 1/348** (2013.01); **F01C 21/0809** (2013.01); **F04C 2250/20** (2013.01)

Citation (applicant)
• KR 101116511 B1 20120228 - LEE BYEONG ROK [KR]
• KR 101874583 B1 20180704

Citation (search report)
• [X1] AT 505061 A1 20081015 - TCG UNITECH SYSTEMTECHNIK GMBH [AT]
• [X1] US 3301194 A 19670131 - BRUNSON VIRGIL A
• [X1] CH 369540 A 19630531 - RAWYLER EHRAT ERNST [CH]

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3839207 A1 20210623; WO 2021125463 A1 20210624

DOCDB simple family (application)
EP 20020103 A 20200305; KR 2020007094 W 20200601