Title (en)

SCREW TYPE FLUID MACHINE

Title (de)

FLUIDMASCHINE VOM SCHRAUBENTYP

Title (fr)

MACHINE À FLUIDE DU TYPE À VIS

Publication

EP 3604814 A4 20201118 (EN)

Application

EP 17861211 A 20171116

Priority

- JP 2017059472 A 20170324
- JP 2017041299 W 20171116

Abstract (en)

[origin: EP3604814A1] There is provided a screw fluid machine having high energy efficiency and high performance, this screw fluid machine being capable of suppressing oil from being mixed with the main stream of gas sucked from an inlet to lower intake gas heating.An intermediate portion 4A of a casing 4 includes, formed therein, a male penetration hole 4b through which a male rotor shaft 5b of a male rotor 5 passes, a female penetration hole 4c through which a female rotor shaft 6b of a female rotor 6 passes, an inlet opening 10 positioned below the male penetration hole 4b and the female penetration hole 4c so as to suck gas from a motor 14 toward the male rotor 5 and the female rotor 6, and an oil exhaust passage portion 20 that communicates with the male penetration hole 4b and the female penetration hole 4c so as to return the oil that has lubricated the shaft support means 12a and 13a toward the motor 14 are. The oil that has lubricated the shaft support means 12a and 13a is caused to flow into the oil exhaust passage portion 20 through a male oil passage 17d and a female oil passage 17e and is caused to flow from an edge 10b in a horizontal direction of the inlet opening 10 toward the motor 14.

IPC 8 full level

F04C 18/16 (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP)

F04C 18/16 (2013.01); **F04C 29/02** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2018173362A1

Cited by

US12025129B2

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 3604814 A1 20200205; **EP 3604814 A4 20201118**; CN 108934174 A 20181204; CN 108934174 B 20191227; JP 2018162694 A 20181018; JP 6448698 B2 20190109; WO 2018173362 A1 20180927

DOCDB simple family (application)

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