

Title (en)

MAGNETIC SUSPENSION PUMP, REFRIGERATION DEVICE HAVING SAME, AND AIR CONDITIONER OUTDOOR UNIT

Title (de)

MAGNETSUSPENSIONSPUMPE, KÜHLVORRICHTUNG DAMIT UND AUSSENEINHEIT EINER KLIMAANLAGE

Title (fr)

POMPE À SUSPENSION MAGNÉTIQUE, DISPOSITIF DE RÉFRIGÉRATION DOTÉ DE CELLE-CI, ET UNITÉ EXTÉRIEURE DE CONDITIONNEUR D'AIR

Publication

**EP 4361448 A1 20240501 (EN)**

Application

**EP 22857400 A 20220615**

Priority

- CN 202110954737 A 20210819
- CN 2022098940 W 20220615

Abstract (en)

A magnetic suspension pump, comprising a motor, a pump, a first sealing ring, a second sealing ring and a buffering member. The motor comprises a housing and a rotating shaft; the pump comprises a pump housing and an impeller, the pump housing is fixedly connected to or integrally formed with the housing, and the impeller is coaxially and fixedly connected to the rotating shaft; the first sealing ring is disposed on the housing and/or the pump housing; the second sealing ring is disposed on the impeller and mated with the first sealing ring, and when the second sealing ring rotates, an annular groove is marked on the first sealing ring or by the first sealing ring; the buffering member is provided between the first sealing ring and the housing and/or the pump housing, and the buffering member can deform along the axial direction of the first sealing ring; the buffering member is disposed between the second sealing ring and the impeller, and the buffering member can deform along the axial direction of the second sealing ring.

IPC 8 full level

**F04D 17/08** (2006.01); **F04D 29/08** (2006.01)

CPC (source: CN EP)

**F04D 25/06** (2013.01 - CN); **F04D 29/056** (2013.01 - CN); **F04D 29/058** (2013.01 - CN EP); **F04D 29/083** (2013.01 - CN); **F04D 29/102** (2013.01 - EP); **F04D 29/668** (2013.01 - CN EP); **F24F 1/46** (2013.01 - CN); **F04D 29/059** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4361448 A1 20240501**; CN 113864211 A 20211231; WO 2023020087 A1 20230223

DOCDB simple family (application)

**EP 22857400 A 20220615**; CN 202110954737 A 20210819; CN 2022098940 W 20220615