

Title (en)

DISHWASHER INCLUDING A HEAT PUMP APPARATUS

Title (de)

GESCHIRRSPÜLMASCHINE MIT EINER WÄRMEPUMPENVORRICHTUNG

Title (fr)

LAVE-VAISSELLE COMPRENANT UN APPAREIL DE POMPE À CHALEUR

Publication

EP 4295742 A1 20231227 (EN)

Application

EP 23179500 A 20230615

Priority

KR 20220075290 A 20220621

Abstract (en)

There is a dishwasher including a tub defining a washing space and accommodating dishes; and a heat pump apparatus configured to heat wash water introduced into the tub. The heat pump apparatus may include a compressor configured to compress refrigerant; a condenser to which refrigerant is introduced from the compressor, the condenser configured to heat water introduced into the tub; an expansion valve to which refrigerant is introduced from the condenser, the expansion valve configured to expand refrigerant; a first evaporator to which refrigerant is introduced from the expansion valve, the first evaporator configured to evaporate refrigerant by absorbing heat from room-temperature air; and a second evaporator to which refrigerant is introduced from the first evaporator, the second evaporator configured to discharge refrigerant to the compressor and evaporate refrigerant by absorbing heat from stored water.

IPC 8 full level

A47L 15/42 (2006.01)

CPC (source: EP KR)

A47L 15/4225 (2013.01 - KR); **A47L 15/4246** (2013.01 - KR); **A47L 15/4285** (2013.01 - KR); **A47L 15/4291** (2013.01 - EP KR); **F24H 4/06** (2013.01 - KR); **F25B 5/04** (2013.01 - KR); **F25B 30/06** (2013.01 - KR); **A47L 15/4219** (2013.01 - EP); **A47L 15/4285** (2013.01 - EP)

Citation (applicant)

EP 2064982 A1 20090603 - V ZUG AG [CH]

Citation (search report)

- [XI] WO 2019233819 A1 20191212 - ARCELIK AS [TR]
- [XI] EP 3257422 A1 20171220 - ELECTROLUX PROFESSIONAL SPA [IT]
- [A] JP 2008136639 A 20080619 - HANSHIN ELECTRICS
- [A] EP 2682036 A2 20140108 - MIELE & CIE [DE]
- [A] WO 2019132818 A2 20190704 - ARCELIK AS [TR]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4295742 A1 20231227; KR 20230174405 A 20231228

DOCDB simple family (application)

EP 23179500 A 20230615; KR 20220075290 A 20220621