

Title (en)

HEAT PUMP HOT-WATER SUPPLY DEVICE AND HOT-WATER STORAGE SYSTEM EQUIPPED WITH HEAT PUMP HOT-WATER SUPPLY DEVICE

Title (de)

WARMWASSERZUFUHRVORRICHTUNG MIT EINER WÄRMEPUMPE UND WARMWASSERSPEICHERSYSTEM MIT DER WARMWASSERZUFUHRVORRICHTUNG MIT EINER WÄRMEPUMPE

Title (fr)

DISPOSITIF D'ALIMENTATION EN EAU CHAUDE DE POMPE À CHALEUR ET SYSTÈME DE STOCKAGE D'EAU CHAUDE POURVU DU DISPOSITIF D'ALIMENTATION EN EAU CHAUDE DE POMPE À CHALEUR

Publication

EP 2990736 A4 20161130 (EN)

Application

EP 13883242 A 20130426

Priority

JP 2013062452 W 20130426

Abstract (en)

[origin: EP2990736A1] A heat pump hot water dispenser includes a heat pump cycle device 50 connecting at least a compressor 51, a refrigerant-water heat exchanger 52, a pressure reducing device 53, and an evaporator 54 by pipes, the refrigerant-water heat exchanger 52 being configured to allow refrigerant and water to exchange heat, a flow rate detection unit 40 for detecting a flow rate of water flowing through the refrigerant-water heat exchanger 52, and a control unit 60 for controlling operation of the heat pump cycle device 50. The control unit 60 is configured to determine an occurrence of abnormal water supply disruption and suspend the operation of the heat pump cycle device 50 when a flow rate of water detected by the flow rate detection unit 40 continues to be lower than a threshold for a set time period T1 or longer.

IPC 8 full level

F24H 1/00 (2006.01); **F24D 17/02** (2006.01); **F24D 19/10** (2006.01)

CPC (source: EP US)

F24D 17/02 (2013.01 - EP); **F24D 19/1054** (2013.01 - EP US); **F24H 15/212** (2022.01 - EP US); **F24H 15/238** (2022.01 - EP US); **F24H 15/31** (2022.01 - EP US); **F24H 15/335** (2022.01 - EP US); **F24H 15/38** (2022.01 - EP US); **F24H 15/395** (2022.01 - EP US); **F24H 15/421** (2022.01 - EP US); **F24D 2220/044** (2013.01 - EP); **F24D 2220/08** (2013.01 - EP)

Citation (search report)

- [A] JP 2011220676 A 20111104 - MITSUBISHI ELECTRIC CORP
- [A] JP 2008025980 A 20080207 - DENSO CORP
- [A] JP 2008045841 A 20080228 - RINNAI KK, et al
- See references of WO 2014174678A1

Cited by

ES2735648A1; US11040318B2; EP3336445B1

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)

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DOCDB simple family (application)

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