

Title (en)  
HEAT-PUMP WATER HEATER, HEAT PUMP DEVICE EQUIPPED WITH HEAT-PUMP WATER HEATER, AND METHOD FOR ASSEMBLING HEAT-PUMP WATER HEATER

Title (de)  
WÄRMEPUMPENWASSERERHITZER, WÄRMEPUMPENVORRICHTUNG MIT DEM WÄRMEPUMPENWASSERERHITZER UND VERFAHREN ZUR MONTAGE DES WÄRMEPUMPENWASSERERHITZERS

Title (fr)  
CHAUFFE-EAU À POMPE À CHALEUR, DISPOSITIF À POMPE À CHALEUR DOTÉ DE CHAUFFE-EAU À POMPE À CHALEUR, ET PROCÉDÉ D'ASSEMBLAGE DE CHAUFFE-EAU À POMPE À CHALEUR

Publication  
**EP 4269904 A4 20240306 (EN)**

Application  
**EP 20967022 A 20201225**

Priority  
JP 2020048830 W 20201225

Abstract (en)  
[origin: EP4269904A1] A heat pump water heater and a heat pump apparatus each include: a first circuit unit in which water is circulated, and which heats the water by heat exchange between the water and refrigerant; a second circuit unit including a plurality of flow passage components, connected to an external heating load, and provided to cause the water heated by the first circuit unit to flow to the heating load and to release heat at the heating load, and mix the water heated by the first circuit unit with return water that has transferred heat; a housing unit in which the first circuit unit and the second circuit unit are housed; and a fixation sheet metal to which the flow passage components of the second circuit unit are fixed, and which is attached to the housing unit.

IPC 8 full level  
**F24H 9/06** (2006.01); **F24H 4/02** (2022.01); **F24H 4/04** (2006.01); **F24H 9/02** (2006.01); **F24H 9/16** (2022.01)

CPC (source: EP)  
**F24H 4/04** (2013.01); **F24H 9/02** (2013.01); **F24H 9/06** (2013.01); **F24H 9/16** (2013.01)

Citation (search report)

- [XAI] WO 2020152853 A1 20200730 - MITSUBISHI ELECTRIC CORP [JP]
- [IA] EP 3705820 A1 20200909 - DAIKIN IND LTD [JP], et al
- [YD] JP 2010084974 A 20100415 - SANYO ELECTRIC CO
- [Y] JP 2006275412 A 20061012 - NORITZ CORP
- See also references of WO 2022137536A1

Designated contracting state (EPC)  
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KH MA MD TN

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DOCDB simple family (application)  
**EP 20967022 A 20201225**; JP 2020048830 W 20201225; JP 2022570976 A 20201225