

Title (en)

HEAT PUMP SYSTEM AND CONTROL METHOD THEREOF

Title (de)

HEIZPUMPENSYSTEM UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)

SYSTÈME DE POMPE À CHALEUR ET SON PROCÉDÉ DE COMMANDE

Publication

EP 3945267 A1 20220202 (EN)

Application

EP 20215663 A 20201218

Priority

CN 202010758274 A 20200731

Abstract (en)

The present disclosure provides a heat pump system and a control method thereof. The heat pump system according to an embodiment includes: a compressor (4), a first flow path (100), a second flow path (200) and a third flow path (300); wherein the second end (14) of the first flow path (100), the second end (24) of the second flow path (200) and the second end (34) of the third flow path (300) are connected; two of the first end (11) of the first flow path (100), the first end (21) of the second flow path (200) and the first end (31) of the third flow path (300) are connected to the inlet (42) and outlet (41) of the compressor (4) in specific modes through a switching assembly (90), so that the heat pump system can operate in one or more of a cooling mode, a heating mode, a hot water preparing mode, and a cooling heat recovery mode.

IPC 8 full level

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CPC (source: CN EP US)

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Citation (search report)

- [I] WO 2018208539 A1 20181115 - CARRIER CORP [US]
- [A] WO 2015023354 A1 20150219 - CARRIER CORP [US]
- [A] EP 2610559 A2 20130703 - SAMSUNG ELECTRONICS CO LTD [KR]
- [A] EP 3415839 A1 20181219 - MITSUBISHI ELECTRIC CORP [JP]

Designated contracting state (EPC)

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Designated extension state (EPC)

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