

Title (en)  
Heat pump assembly

Title (de)  
Wärmepumpenanlage

Title (fr)  
Installation de pompe de chaleur

Publication  
**EP 2051027 A3 20141119 (DE)**

Application  
**EP 08018307 A 20081020**

Priority  
DE 102007050469 A 20071019

Abstract (en)  
[origin: EP2051027A2] The system has valves (20, 21) provided in front of an evaporator (3), and valves (17, 18) provided behind the evaporator. Two paths (B, C) are provided parallel to the evaporator. The valves (17, 18, 20, 21) are designed such that a flow direction at the evaporator is unchanged independent of change of a flow direction of a refrigerant e.g. carbon hydride. The evaporator is used as a liquefier in an operation mode for liquefying the refrigerant and is used as a vaporizer in another operation mode for evaporating the refrigerant.

IPC 8 full level  
**F25B 13/00** (2006.01)

CPC (source: EP)  
**F25B 13/00** (2013.01); **F25B 40/00** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2313/02742** (2013.01); **F25B 2400/13** (2013.01)

Citation (search report)

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CN110645736A; CN102494439A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2051027 A2 20090422; EP 2051027 A3 20141119; EP 2051027 B1 20180516**; DE 102007050469 A1 20090423

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