

Title (en)

Refrigeration cycle apparatus and warm water producing apparatus having refrigeration cycle apparatus

Title (de)

Kältekreislaufvorrichtung sowie Warmwasserherstellungsvorrichtung mit Kältekreislaufvorrichtung

Title (fr)

Appareil à cycle de réfrigération et appareil de production d'eau chaude disposant d'un appareil à cycle de réfrigération

Publication

EP 2735819 A3 20160622 (EN)

Application

EP 13193564 A 20131119

Priority

JP 2012257049 A 20121126

Abstract (en)

[origin: EP2735819A2] The refrigeration cycle apparatus includes a refrigerant circuit 2, a refrigerant/refrigerant heat exchanger 23 and a control device 4. The refrigerant/refrigerant heat exchanger 23 includes an outer pipe 23a through which high pressure refrigerant flows, and an inner pipe 23b which is disposed in the outer pipe 23a and through which low pressure refrigerant flows. At least a portion of air flowing through the evaporator 25 is induced by the refrigerant/refrigerant heat exchanger 23. Therefore, the high pressure refrigerant is cooled by the air, a supercooling degree of refrigerant is increased, temperature of air flowing into the evaporator 25 is made to rise, and a heat exchanging amount in the evaporator 25 is increased. Therefore, it is possible to enhance energy efficiency.

IPC 8 full level

F25B 13/00 (2006.01); **F25B 40/02** (2006.01)

CPC (source: EP)

F25B 13/00 (2013.01); **F25B 40/02** (2013.01); **F25B 29/003** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2339/047** (2013.01); **F25B 2400/13** (2013.01); **F25B 2600/21** (2013.01); **F25B 2600/2509** (2013.01); **F25B 2700/1933** (2013.01); **F25B 2700/2101** (2013.01); **F25B 2700/21173** (2013.01)

Citation (search report)

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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

Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

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