

Title (en)

Refrigeration cycle apparatus and hot water heater

Title (de)

Kühlzyklusvorrichtung und Heißwassererhitzer

Title (fr)

Appareil de cycle de réfrigération et radiateur à eau chaude

Publication

EP 2320165 A2 20110511 (EN)

Application

EP 10186452 A 20101004

Priority

JP 2009231659 A 20091005

Abstract (en)

A refrigeration cycle apparatus 1A includes: a refrigerant circuit 2 provided with a subcooling heat exchanger 23; a bypass passage 3 extending through the subcooling heat exchanger 23; and a controller 4 for controlling a main expansion means 24 in the refrigerant circuit 2 and a bypass expansion means 31 in the bypass passage 3. The bypass expansion means 31 is controlled so that a bypass side outlet temperature conforms to a saturation temperature at a pressure of a refrigerant to be drawn into a compressor 21, and a degree of superheat at an outlet of an evaporator 25 calculated based on an evaporator outlet temperature is equal to or lower than a predetermined degree of superheat.

IPC 8 full level

F25B 40/02 (2006.01)

CPC (source: EP)

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Cited by

EP2765370A1; EP2535674A3

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2320165 A2 20110511; **EP 2320165 A3 20150225**; **EP 2320165 B1 20180411**; CN 102032698 A 20110427; CN 102032698 B 20141217; DK 2320165 T3 20180723; JP 2011080633 A 20110421; JP 5421717 B2 20140219

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