

Title (en)
REFRIGERATING AND AIR CONDITIONING DEVICE

Title (de)
KÜHL- UND KLIMAANLAGENVORRICHTUNG

Title (fr)
DISPOSITIF DE RÉFRIGÉRATION ET DE CLIMATISATION

Publication
EP 3171096 A1 20170524 (EN)

Application
EP 14897709 A 20140716

Priority
JP 2014068959 W 20140716

Abstract (en)
It is an object to a refrigerating and air-conditioning apparatus capable of preventing dew condensation on a refrigerant pipe by adjusting a temperature of liquid refrigerant even when refrigerant condensed at a refrigerant cooling unit (2) using a first heat source at a temperature lower than the dew-point temperature of outdoor air is equal to or lower than the dew-point temperature of ambient outdoor air. The refrigerating and air-conditioning apparatus includes a main refrigerant circuit in which a compressor (1), the refrigerant cooling unit (2), a first decompression device (3), and an evaporator (4) are connected circularly through a refrigerant pipe, and a bypass (11) connecting a refrigerant pipe on an inflow side of the refrigerant cooling unit (2) and a refrigerant pipe on an outflow side of the refrigerant cooling unit (2). The bypass (11) transfers part of refrigerant discharged from the compressor (1) to the refrigerant pipe on the outflow side of the refrigerant cooling unit (2), bypassing the refrigerant cooling unit (2).

IPC 8 full level
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CPC (source: EP)
F25B 1/00 (2013.01); **F25B 1/10** (2013.01); **F25B 2400/0417** (2013.01); **F25B 2400/13** (2013.01)

Cited by
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