

Title (en)
REFRIGERATING AND AIR CONDITIONING DEVICE

Title (de)
KÜHL- UND KLIMAAANLAGENVORRICHTUNG

Title (fr)
DISPOSITIF DE RÉFRIGÉRATION ET DE CLIMATISATION

Publication
EP 3171096 A4 20180314 (EN)

Application
EP 14897709 A 20140716

Priority
JP 2014068959 W 20140716

Abstract (en)
[origin: EP3171096A1] 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
F25B 1/00 (2006.01); **F25B 1/10** (2006.01)

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

Citation (search report)

- [XA] JP 2013257057 A 20131226 - PANASONIC CORP
- [XI] WO 2005116540 A1 20051208 - CARRIER CORP [US], et al
- [A] EP 2482014 A2 20120801 - PANASONIC CORP [JP]
- See references of WO 2016009516A1

Cited by
EP3879207A1; US2021285704A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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