

Title (en)
REFRIGERATING AND AIR-CONDITIONING APPARATUS

Title (de)
KÜHL- UND KLIMAAANLAGENVORRICHTUNG

Title (fr)
APPAREIL DE RÉFRIGÉRATION ET CLIMATISATION

Publication
EP 3165846 A1 20170510 (EN)

Application
EP 14896722 A 20140703

Priority
JP 2014067827 W 20140703

Abstract (en)
An operation control device in a refrigerating and air-conditioning apparatus includes a correction amount setting unit configured to reduce, by a predetermined change amount at each setting, a temperature correction amount for such a correction that a necessary air-conditioning capability is lower than an air-conditioning capability corresponding to a set temperature, a target suction temperature setting unit configured to set a target suction temperature based on the temperature correction amount set by the correction amount setting unit and the set temperature, a target refrigerant temperature setting unit configured to set a target refrigerant temperature of refrigerant flowing into a use side heat exchanger so that a suction temperature is equal to the target suction temperature, and a compressor control unit configured to control a capacity of a compressor so that the refrigerant flowing into the use side heat exchanger has the target refrigerant temperature.

IPC 8 full level
F24F 11/02 (2006.01)

CPC (source: EP US)
F24F 11/89 (2017.12 - EP US); **F25B 13/00** (2013.01 - EP); **F25B 49/022** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP); **F25B 2500/15** (2013.01 - EP); **F25B 2500/19** (2013.01 - EP); **F25B 2700/2103** (2013.01 - EP)

Cited by
US11485191B2

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

DOCDB simple family (publication)
EP 3165846 A1 20170510; **EP 3165846 A4 20180314**; **EP 3165846 B1 20190327**; JP 6271011 B2 20180131; JP WO2016002052 A1 20170427; WO 2016002052 A1 20160107

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