Title (en)

REFRIGERATING/AIR-CONDITIONING DEVICE

Title (de)

KÜHL-/KLIMAANLAGENVORRICHTUNG

Title (fr)

DISPOSITIF DE RÉFRIGÉRATION/CLIMATISATION

Publication

EP 3130870 B1 20180509 (EN)

Application

EP 16183268 A 20160808

Priority

JP 2015158200 A 20150810

Abstract (en)

[origin: EP3130870A1] In a refrigeration / air-conditioning device including a refrigeration cycle (29), and an expansion valve control means (35), the expansion valve control means (35) includes a target value switching means (36) which adopts the lower one of a target degree of discharge superheat TdSH plus a high pressure saturation temperature and an upper-limit value of the discharge temperature Td as a target value, or compares a target discharge temperature Td obtained by calculation from the rotational speed of a compressor and the high pressure saturation temperature with an upper-limit value and adopts the lower one of the target discharge temperature Td and the upper-limit value as the target discharge temperature Td while performing the control at the predetermined degree of discharge superheat TdSH or the control at the predetermined discharge temperature Td.

IPC 8 full level

F25B 49/02 (2006.01)

CPC (source: EP)

F25B 49/02 (2013.01); F25B 2600/2513 (2013.01); F25B 2700/21151 (2013.01); F25B 2700/21152 (2013.01)

Cited by

CN109798626A; CN111566422A; CN115930392A; CN112710071A; US2019248209A1; US10870332B2; EP3730875A4; US11340002B2; US10955179B2; CN111664559A; EP3825630A1; IT201900021534A1; US11428447B2; WO2019113094A1; WO2019133720A1; TWI801460B; WO2023010931A1

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

DOCDB simple family (publication)

EP 3130870 A1 20170215; **EP 3130870 B1 20180509**; AU 2016213701 A1 20170302; AU 2016213701 B2 20171130; JP 2017036881 A 20170216; JP 6594698 B2 20191023

DOCDB simple family (application)

EP 16183268 A 20160808; AU 2016213701 A 20160808; JP 2015158200 A 20150810