

Title (en)

CONTROL DEVICE, METHOD, AND PROGRAM, AND MULTI-TYPE AIR CONDITIONING SYSTEM COMPRISING SAME

Title (de)

STEUERUNGSVORRICHTUNG, VERFAHREN UND PROGRAMM SOWIE MULTITYP-KLIMAAANLAGE DAMIT

Title (fr)

DISPOSITIF DE COMMANDE, PROCÉDÉ ET PROGRAMME, ET SYSTÈME DE CLIMATISATION DE TYPE MULTIPLE LES COMPRENANT

Publication

EP 2835595 A4 20151230 (EN)

Application

EP 13772647 A 20130318

Priority

- JP 2012087322 A 20120406
- JP 2013057584 W 20130318

Abstract (en)

[origin: EP2835595A1] An indoor fan of an indoor unit in a thermo-OFF state is operated intermittently while reducing a necessary amount of refrigerant and suppressing an increase in receiver capacity. Provided is a control unit (41) for controlling operation of a packaged air conditioning system (1) in which a plurality of indoor units (7) are connected to an outdoor unit (2). During a heating operation, if an indoor fan (73) of each of the indoor units (7A, 7B) performs an intermittent operation for repeating ON/OFF operations to stop for a predetermined time after rotating for a predetermined time at a time at which a thermostat is turned off, the control unit (41) forms a plurality of groups of the indoor units for matching timings for the intermittent operation of the respective indoor units, shifts the timing for the intermittent operation for each group, and controls assignment of the indoor units (7A, 7B) to the groups so that total model capacities of the indoor units (7A, 7B) that are included in the respective groups and are in a thermo-OFF state become approximately equal to each other.

IPC 8 full level

F24F 11/02 (2006.01); **F24F 3/06** (2006.01); **F24F 11/00** (2006.01); **F25B 13/00** (2006.01); **F25B 40/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)

F24F 3/065 (2013.01 - EP); **F24F 11/83** (2017.12 - EP); **F24F 11/84** (2017.12 - EP US); **F25B 13/00** (2013.01 - EP); **F25B 40/02** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); **F25B 2313/005** (2013.01 - EP); **F25B 2313/006** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/02741** (2013.01 - EP); **F25B 2313/0293** (2013.01 - EP); **F25B 2400/13** (2013.01 - EP); **F25B 2600/01** (2013.01 - EP); **F25B 2600/11** (2013.01 - EP); **F25B 2600/23** (2013.01 - EP)

Citation (search report)

- [A] JP 2006029693 A 20060202 - SHIMIZU CONSTRUCTION CO LTD
- [A] EP 1491826 A1 20041229 - DAIKIN IND LTD [JP]
- [A] JP H05346258 A 19931227 - TOSHIBA CORP
- See references of WO 2013150885A1

Cited by

EP3855089A4; US11236924B2; US10808960B2; EP3370004A4

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 2835595 A1 20150211; **EP 2835595 A4 20151230**; CN 104081131 A 20141001; CN 104081131 B 20161116; JP 2013217550 A 20131024; JP 5916489 B2 20160511; WO 2013150885 A1 20131010

DOCDB simple family (application)

EP 13772647 A 20130318; CN 201380007117 A 20130318; JP 2012087322 A 20120406; JP 2013057584 W 20130318