

Title (en)
AIR CONDITIONING SYSTEM, AND CONTROL DEVICE AND CONTROL METHOD FOR SAME

Title (de)
KLIMAANLAGE SOWIE STEUERUNGSVORRICHTUNG UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)
SYSTÈME DE CLIMATISATION, DISPOSITIF ET PROCÉDÉ DE COMMANDE POUR CELUI-CI

Publication
EP 3064848 A1 20160907 (EN)

Application
EP 15756043 A 20150129

Priority
• JP 2014034149 A 20140225
• JP 2015052588 W 20150129

Abstract (en)
In an air conditioning system, outdoor units (2a, 2b) and indoor units (3a, 3b) undergo autonomous decentralized control such that the change in respective coolant pressures stays within a prescribed allowable range. If, for example, the temperature setting for the indoor unit (3a) is changed, an outdoor unit such as the outdoor unit (2a) for operating in a pair with the indoor unit (3a) is selected, and the selected outdoor unit (2a) and the indoor unit (3a) having a changed target value are grouped together. Among the grouped indoor unit (3a) and outdoor unit (2a), a control instruction is generated so as to inhibit the change in coolant pressure resulting from the change in temperature setting so as to remain within the prescribed range, and respective control instructions are sent to the corresponding indoor unit (3a) and outdoor unit (2a). As a result, the change in coolant pressure resulting from the change in temperature setting can be kept to the grouped indoor unit (3a) and outdoor unit (2a), allowing the system to be stable. As a result, it is possible to attain a balance between responsiveness and stability in the system.

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 49/02** (2006.01)

CPC (source: EP US)
F24F 3/065 (2013.01 - EP); **F24F 11/00** (2013.01 - EP); **F24F 11/83** (2017.12 - EP); **F24F 11/84** (2017.12 - EP US); **F25B 13/00** (2013.01 - EP); **F25B 49/02** (2013.01 - EP); **F25B 2313/0233** (2013.01 - EP); **F25B 2313/0253** (2013.01 - EP); **F25B 2313/029** (2013.01 - EP); **F25B 2700/1931** (2013.01 - EP); **F25B 2700/1933** (2013.01 - EP); **F25B 2700/2103** (2013.01 - EP)

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 3064848 A1 20160907; **EP 3064848 A4 20170111**; **EP 3064848 B1 20200722**; ES 2811122 T3 20210310; JP 2015158336 A 20150903; JP 6215084 B2 20171018; WO 2015129381 A1 20150903

DOCDB simple family (application)
EP 15756043 A 20150129; ES 15756043 T 20150129; JP 2014034149 A 20140225; JP 2015052588 W 20150129