

Title (en)
AIR-CONDITIONING AND REFRIGERATING SYSTEM

Title (de)
KLIMATISIERUNGS- UND KÜHLANLAGE

Title (fr)
SYSTÈME DE CLIMATISATION ET FRIGORIFIQUE

Publication
EP 2333445 A1 20110615 (EN)

Application
EP 09815892 A 20090925

Priority
• JP 2009004846 W 20090925
• JP 2008250037 A 20080929

Abstract (en)
An air-conditioning refrigerating system that enables demand control based on operation control of an air-conditioning system and a refrigerating system is provided. The air-conditioning refrigerating system 1 is constructed to have an air-conditioning system 10 in which plural indoor units 34 are connected to an outdoor unit 32 to air-condition a building, a refrigerating system 12 in which plural low-temperature showcases 7 are connected to a rack system refrigerating machine 3 to cool each of the low-temperature showcases 7, a main controller 4 for generating and outputting air-conditioning demand data for varying power consumption of the refrigerating system and refrigerating demand data for varying power consumption of the refrigerating system 12 on the basis of commercial power consumption of the building, and an external controller 14 that is provided separately from the refrigerating system 12, receives the refrigerating demand data from the main controller 4 and controls the operation of the rack system refrigerating machine on the basis of the refrigerating demand data.

IPC 8 full level
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CPC (source: EP US)
F24F 11/30 (2017.12 - EP US); **F24F 11/46** (2017.12 - EP US); **F24F 11/63** (2017.12 - EP US); **F24F 11/84** (2017.12 - EP US); **F24F 11/86** (2017.12 - EP US); **F24F 11/871** (2017.12 - EP US); **F25B 49/02** (2013.01 - EP US); **F24F 2140/00** (2017.12 - EP US); **F24F 2140/60** (2017.12 - EP US); **F25B 2400/06** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US); **F25B 2400/22** (2013.01 - EP US); **F25B 2700/172** (2013.01 - EP US); **F25B 2700/1931** (2013.01 - EP US); **F25B 2700/1933** (2013.01 - EP US)

Cited by
CN103836773A; CN103398447A; CN103062846A; CN104456827A; US10627146B2; US11009250B2; EP3317597A4; AU2016288216B2; EP3889524A1; EP3919841A1; WO2017004406A1; US10775085B2

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2333445 A1 20110615; **EP 2333445 A4 20140813**; CN 101915481 A 20101215; CN 101915481 B 20121003; JP 2010078272 A 20100408; JP 5405076 B2 20140205; US 2011167852 A1 20110714; WO 2010035470 A1 20100401

DOCDB simple family (application)
EP 09815892 A 20090925; CN 200910258491 A 20090929; JP 2008250037 A 20080929; JP 2009004846 W 20090925; US 200913120321 A 20090925