

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2636961 A4 20180321 (EN)

Application
EP 11837878 A 20111021

Priority
• JP 2011009066 A 20110119
• JP 2010249178 A 20101105
• JP 2011074245 W 20111021

Abstract (en)
[origin: EP2636961A1] This air conditioner appropriately controls the temperature of a radiant panel (radiant heat exchanger). The air conditioner has a compressor (60), an outdoor motor-operated valve (64), an outdoor heat exchanger (62), an indoor heat exchanger (20), and a radiant panel (30), and is provided with a refrigerant circuit (10) that is configured in a manner so that high-temperature refrigerant flows to the radiant panel (30) during a radiant heating operation. During the radiant heating operation, a panel incoming temperature sensor (25) is provided to the conduit upstream from the radiant conduit of the radiant panel (30), and a panel outgoing temperature sensor (26) is provided to the conduit downstream from the radiant conduit of the radiant panel (30). An indoor motor-operated valve control unit controls an indoor motor-operated valve (23) provided upstream from the radiant conduit of the radiant panel (30) on the basis of the temperatures detected by the panel incoming temperature sensor (25) and the panel outgoing temperature sensor (26).

IPC 8 full level
F24F 1/0063 (2019.01); **F24F 5/00** (2006.01); **F25B 49/02** (2006.01); **F24F 140/20** (2018.01)

CPC (source: EP US)
F24F 1/0063 (2019.01 - EP US); **F24F 5/0089** (2013.01 - EP); **F25B 13/00** (2013.01 - EP); **F24F 2140/20** (2017.12 - EP); **F25B 2313/02334** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP)

Citation (search report)
• [XY] WO 2010106771 A1 20100923 - DAIKIN IND LTD [JP], et al
• [XY] JP H04369327 A 19921222 - SHARP KK
• [Y] JP H0448140 A 19920218 - TOSHIBA CORP
• See references of WO 2012060227A1

Cited by
CN104949377A; US10775065B2

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 2636961 A1 20130911; **EP 2636961 A4 20180321**; **EP 2636961 B1 20210324**; AU 2011324586 A1 20130627; AU 2011324586 B2 20150924; CN 103201565 A 20130710; CN 103201565 B 20160406; ES 2865098 T3 20211015; JP 2012112638 A 20120614; JP 5088520 B2 20121205; WO 2012060227 A1 20120510

DOCDB simple family (application)
EP 11837878 A 20111021; AU 2011324586 A 20111021; CN 201180052786 A 20111021; ES 11837878 T 20111021; JP 2011009066 A 20110119; JP 2011074245 W 20111021