

Title (en)
AIR CONDITIONING SYSTEM

Title (de)
KLIMATISIERUNGSSYSTEM

Title (fr)
SYSTÈME DE CONDITIONNEMENT D'AIR

Publication
EP 3315877 A4 20180620 (EN)

Application
EP 16857220 A 20160921

Priority
• JP 2015207928 A 20151022
• JP 2016077763 W 20160921

Abstract (en)
[origin: EP3315877A1] An air conditioning system (1) includes a backup operation control unit (61A, 61B) configured to perform backup operation on an operational outdoor unit of a plurality of outdoor units (2A, 2B) when a compressor (10) of any of the plurality of outdoor units (2A, 2B) becomes non-operational; and the backup operation control unit (61A, 61B) is provided with a four-way selector valve synchronization control unit (62A, 62B) configured to operate a four-way selector valve (13) in backup operation to switch from a cooling cycle position to a heating cycle position, such that the four-way selector valve synchronization control unit (62A, 62B) operates the four-way selector valve (13) of the operational outdoor unit temporarily in a cooling cycle position so as to reduce a low pressure of the non-operational outdoor unit and to secure an operating pressure difference of the four-way selector valve (13) of the non-operational outdoor unit, and then operates the four-way selector valve (13) of the non-operational outdoor unit to switch to a heating cycle position, and subsequently operates the four-way selector valve (13) of the operational outdoor unit to switch to a heating cycle position, and synchronizes the four-way selector valves (13).

IPC 8 full level
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CPC (source: EP)
F24F 11/89 (2017.12); **F25B 1/00** (2013.01); **F25B 13/00** (2013.01); **F25B 49/02** (2013.01); **F25B 2313/0253** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2313/02792** (2013.01); **F25B 2600/2507** (2013.01)

Citation (search report)
• [A] JP 2009144967 A 20090702 - DAIKIN IND LTD
• [A] WO 2014046236 A1 20140327 - TOSHIBA CARRIER CORP [JP]
• [A] WO 2008059922 A1 20080522 - HITACHI APPLIANCES INC [JP], et al
• [A] JP 2009236397 A 20091015 - TOSHIBA CARRIER CORP
• See references of WO 2017068902A1

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

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EP 3315877 A1 20180502; **EP 3315877 A4 20180620**; **EP 3315877 B1 20190605**; CN 107850352 A 20180327; ES 2732660 T3 20191125; JP 2017078561 A 20170427; JP 6552939 B2 20190731; WO 2017068902 A1 20170427

DOCDB simple family (application)
EP 16857220 A 20160921; CN 201680043745 A 20160921; ES 16857220 T 20160921; JP 2015207928 A 20151022; JP 2016077763 W 20160921