

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Climatiseur

Publication
EP 2565559 A2 20130306 (EN)

Application
EP 12157794 A 20120301

Priority
JP 2011192671 A 20110905

Abstract (en)
The air conditioner is capable of executing heating operation while user's comfort is maintained. The air conditioner includes an indoor temperature detection means 7 for detecting an indoor temperature, and a target temperature setting means for setting a target temperature, wherein a specified compressor-stop condition that is satisfied when a state that the indoor temperature is higher than the target temperature by a specified temperature difference has lasted for a specified duration time is previously set, and wherein after the indoor temperature has exceeded the target temperature and when the specified compressor-stop condition is satisfied, the compressor 11 is stopped. The air conditioner further includes a bypass circuit 16 for connecting one point between the indoor heat exchanger 5 and the pressure reducer 13 with another point between the four-way valve 12 and an inlet port of the compressor 11, and a bypass-use two-way valve 17 provided in the bypass circuit 16. After the indoor temperature has exceeded the target temperature and before the specified compressor-stop condition is satisfied, the bypass-use two-way valve 17 is opened. Thus, the likelihood that the compressor 11 may be stopped and the air conditioning may be stopped is lowered, so that the indoor user's comfort can be maintained.

IPC 8 full level
F25B 13/00 (2006.01); **F25B 47/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
F25B 47/022 (2013.01); **F25B 49/02** (2013.01); **F25B 13/00** (2013.01); **F25B 2313/0314** (2013.01); **F25B 2313/0315** (2013.01); **F25B 2400/0403** (2013.01); **F25B 2400/0409** (2013.01); **F25B 2400/24** (2013.01); **F25B 2600/23** (2013.01); **F25B 2600/2501** (2013.01)

Citation (applicant)
JP H06249542 A 19940906 - MITSUBISHI HEAVY IND LTD

Cited by
CN111351248A; EP2876384A1; AU2014253572B2

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 2565559 A2 20130306; **EP 2565559 A3 20150218**; **EP 2565559 B1 20190508**; CN 102980247 A 20130320; CN 102980247 B 20161214; JP 2013053818 A 20130321; JP 5375904 B2 20131225

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EP 12157794 A 20120301; CN 201210054053 A 20120302; JP 2011192671 A 20110905