Title (en)

AIR CONDITIONER

Title (de)

KLIMAANLAGE

Title (fr)

CLIMATISEUR

Publication

EP 2918947 A1 20150916 (EN)

Application

EP 13851368 A 20130819

Priority

- JP 2012239888 A 20121031
- JP 2013004893 W 20130819

Abstract (en)

This air conditioner using a refrigerant of R32 controls the opening degree of an expansion valve so as to stably control the temperature of the refrigerant discharged from a compressor. The air conditioner (10) includes a refrigerant circuit (11) in which a compressor (12), an outdoor heat exchanger (14), an expansion valve (15), and an indoor heat exchanger (16) are connected together, and through which HFC32 circulates as the refrigerant, and a controller (30) which performs an opening degree control every predetermined sampling time t to change the opening degree of the expansion valve (15) to a predetermined extent such that a discharge pipe temperature Tp of the compressor (12) reaches a target discharge pipe temperature Tpa. The sampling time t is set to be longer in a range where the opening degree of the expansion valve (15) is less than a predetermined value than in a range where the opening degree is equal to or more than the predetermined value.

IPC 8 full level

F25B 1/00 (2006.01)

CPC (source: CN EP)

F25B 9/002 (2013.01 - CN EP); **F25B 13/00** (2013.01 - CN EP); F25B 2313/02741 (2013.01 - CN EP); F25B 2313/0314 (2013.01 - CN EP); F25B 2313/0315 (2013.01 - CN EP); F25B 2600/2513 (2013.01 - CN EP)

Cited by

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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 2918947 A1 20150916; **EP 2918947 A4 20160921**; **EP 2918947 B1 20180103**; CN 104736944 A 20150624; CN 104736944 B 20160810; ES 2660871 T3 20180326; JP 2014089006 A 20140515; JP 5672290 B2 20150218; WO 2014068821 A1 20140508

DOCDB simple family (application)

EP 13851368 A 20130819; CN 201380055419 A 20130819; ES 13851368 T 20130819; JP 2012239888 A 20121031; JP 2013004893 W 20130819