

Title (en)  
AIR CONDITIONER

Title (de)  
KLIMAANLAGE

Title (fr)  
CLIMATISEUR

Publication  
**EP 3296664 A1 20180321 (EN)**

Application  
**EP 17191590 A 20170918**

Priority  
KR 20160119464 A 20160919

Abstract (en)  
An air conditioner includes an air-conditioning cycle circuit including a first compressor, a first condenser, a first expansion device and a first evaporator in order to perform an air-conditioning operation using first refrigerant, a refrigeration cycle circuit including a second compressor, a second condenser, a second expansion device and a second evaporator in order to refrigerate food using second refrigerant, a cooling receiver for performing heat exchange between the first refrigerant having passed through the first condenser and the second refrigerant having passed through the second condenser, a first bypass unit for diverting a portion of the second refrigerant having passed through the second compressor so as to exchange heat with the second refrigerant having passed through the second evaporator, and a control unit. In an oil recovery operation, the second refrigerant discharged from the second compressor exchanges heat with the second refrigerant having passed through the second evaporator.

IPC 8 full level  
**F25B 7/00** (2006.01); **F25B 13/00** (2006.01); **F25B 31/00** (2006.01); **F25B 40/02** (2006.01)

CPC (source: EP KR)  
**F24F 11/30** (2017.12 - KR); **F24F 11/65** (2017.12 - KR); **F24F 11/83** (2017.12 - KR); **F25B 7/00** (2013.01 - EP KR); **F25B 13/00** (2013.01 - EP KR); **F25B 31/004** (2013.01 - EP KR); **F25B 40/02** (2013.01 - EP KR); **F25B 41/26** (2021.01 - KR); **F25B 41/31** (2021.01 - KR); **F25B 2400/0403** (2013.01 - EP KR); **F25B 2400/0409** (2013.01 - EP KR); **F25B 2400/0411** (2013.01 - EP KR); **F25B 2400/16** (2013.01 - EP KR); **F25B 2500/16** (2013.01 - EP KR); **F25B 2600/2501** (2013.01 - EP KR); **F25B 2700/03** (2013.01 - EP KR)

Citation (search report)  
• [A] EP 2615392 A2 20130717 - LG ELECTRONICS INC [KR]  
• [A] KR 100897131 B1 20090514 - YOU IN SEOK [KR]

Cited by  
CN110469926A; CN108375150A; CN115325654A; EP3951283A4; US11067315B2; US11988419B2; WO2020095381A1

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 3296664 A1 20180321**; **EP 3296664 B1 20190515**; KR 102032283 B1 20191015; KR 20180031256 A 20180328

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