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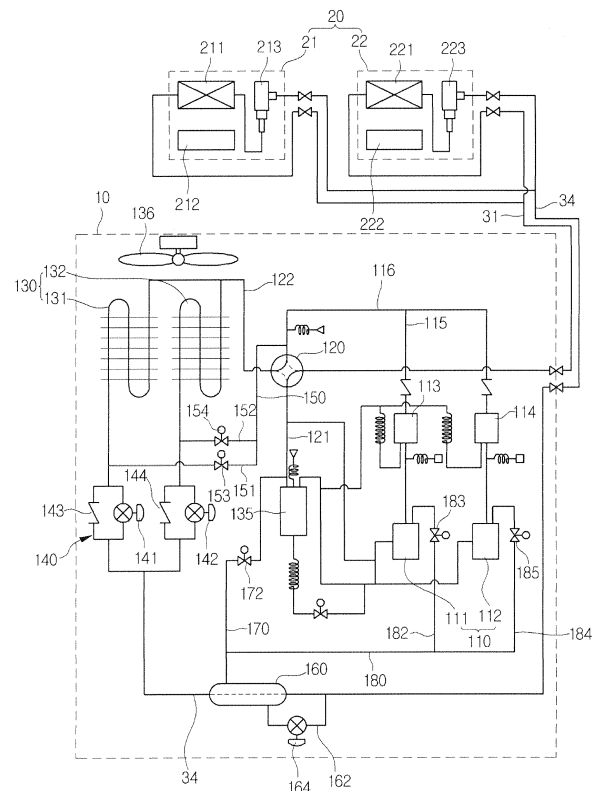
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(54) **Air conditioner**

(57) Provided is an air conditioner. The air conditioner includes an indoor unit and an outdoor unit. The outdoor unit includes a compressor, an outdoor heat exchanger, a supercooling unit for supercooling a refrigerant, a first refrigerant pipe allowing the supercooling unit to communicate with a suction side of the compressor, a first valve disposed in the first refrigerant pipe, a second refrigerant pipe connecting the compressor to the first refrigerant pipe, and a second valve disposed in the second refrigerant pipe. In a first refrigerant flow mode, a refrigerant flowing into the supercooling unit is introduced into the compressor through the second refrigerant pipe. In a second refrigerant flow mode, a refrigerant compressed by the compressor is discharged into the second refrigerant pipe.

Fig.1





EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2009/082367 A1 (CARRIER CORP [US]; TARAS MICHAEL F [US]; LIFSON ALEXANDER [US]) 2 July 2009 (2009-07-02) * abstract; figures 1, 2 * * paragraphs [0018], [0019], [0020] *	1-14	INV. F25B1/10 F25B49/02 F24F11/06 F24F1/30
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			TECHNICAL FIELDS SEARCHED (IPC)
			F25B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 October 2017	Examiner Yousufi, Stefanie
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 12 16 1716

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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26-10-2017

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