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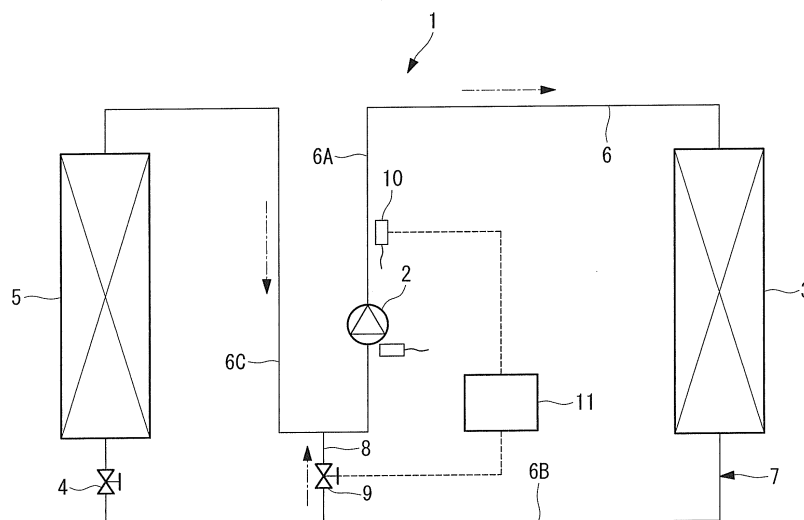
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(54) **Refrigeration/air-conditioning apparatus**

(57) The invention provides a refrigeration/air-conditioning apparatus (1) which can bypass an appropriate amount of liquid refrigerant to suppress a rise in discharge temperature, while suppressing, as much as possible, the opening/closing frequency of an electromagnetic valve (9), and in which it is possible to form a liquid bypass circuit (8) with a low-cost and simple structure. The refrigeration/air-conditioning apparatus (1), which is equipped with a liquid bypass circuit (8) provided with an electromagnetic valve (9), between a high-pressure liquid line (6B) in a refrigeration cycle (7) and a suction line (6C) running to a compressor (2), includes a control means (11) for opening and closing the electromagnetic valve (9) on the basis of a detected temperature in a discharge temperature sensor (10) provided in a discharge line (6A) from the compressor (2), and for varying a set temperature at which the electromagnetic valve (9) is closed depending on the time since the last time the electromagnetic valve was opened or closed.

uid line (6B) in a refrigeration cycle (7) and a suction line (6C) running to a compressor (2), includes a control means (11) for opening and closing the electromagnetic valve (9) on the basis of a detected temperature in a discharge temperature sensor (10) provided in a discharge line (6A) from the compressor (2), and for varying a set temperature at which the electromagnetic valve (9) is closed depending on the time since the last time the electromagnetic valve was opened or closed.

FIG. 1





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	GB 2 254 135 A (IMI CORNELIUS [GB]) 30 September 1992 (1992-09-30) * page 1, line 5 - page 6, line 14; figure 1/1 *	1	INV. F25B49/02 F25B41/04 F25B31/00
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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 9 January 2017	Examiner Kolev, Ivelin
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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 EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 13 19 3505

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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