

Title (en)  
Refrigeration/air-conditioning apparatus

Title (de)  
Kühl-/Klimaanlage

Title (fr)  
Appareil de climatisation d'air/de réfrigération

Publication  
**EP 2735822 A2 20140528 (EN)**

Application  
**EP 13193505 A 20131119**

Priority  
JP 2012255396 A 20121121

Abstract (en)  
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.

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Citation (applicant)  
JP H05172408 A 19930709 - HITACHI LTD, et al

Cited by  
GB2550921A; CN104729023A; CN112178978A; CN107560248A; CN111322731A

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