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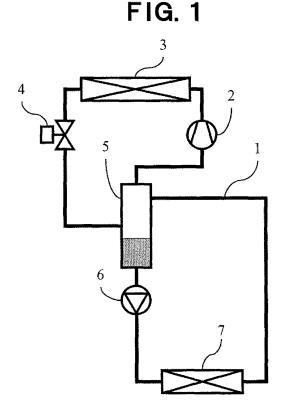
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(54) Vapor compression refrigerating systems

(57)A vapor compression refrigerating system includes a compressor configured to compress a refrigerant, and a radiator connected to the compressor, in which the radiator is configured to receive the refrigerant from the compressor and to reduce a temperature of the refrigerant. The system also includes a pressure reducing mechanism connected to the radiator, and the pressure reducing mechanism is configured to receive the refrigerant from the radiator and to reduce a pressure of the refrigerant. The system also includes a separator connected to the pressure reducing mechanism and to the compressor, a pump connected to the separator, and an evaporator connected to the pump and to the separator. The separator is configured to receive the refrigerant from the pressure reducing mechanism, to separate a liquid portion of the refrigerant from a gas portion of the refrigerant, and to transmit the gas portion to the compressor. Moreover, the pump is configured to pump the liquid portion from the separator to the evaporator, and the evaporator is configured to evaporate the liquid portion into an evaporated portion, and to transmit the evaporated portion to the separator.



EP 1 798 498 A3



EUROPEAN SEARCH REPORT

Application Number EP 06 12 5926

Category Citation of document with indication, where					
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		-/			
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	Place of search	Date of completion of the search	<u> </u>	Examiner	
	Munich	4 June 2008	Rit	ter, Christoph	
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EUROPEAN SEARCH REPORT

Application Number EP 06 12 5926

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	Place of search Munich	Date of completion of the search 4 June 2008	D÷+	Examiner ter, Christoph		
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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		E : earlier patent doc after the filing date D : document cited in L : document cited co	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 oited for other reasons			
A : technological background O : non-written disclosure P : intermediate document		& : member of the sa	& : member of the same patent family, corresponding document			



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CLAIMS INCURRING FEES
The present European patent application comprised at the time of filling more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-12

claim 1 concerns features of a vapor compression refrigerating system with an evaporator connected to a separator.

2. claims: 13-22

claim 13 concerns features of a vapor compression refrigerating system using an expander driving pumping means.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 06 12 5926

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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