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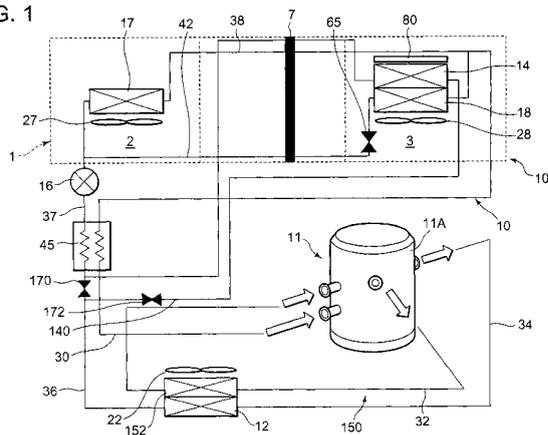
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(54) **Heating/cooling system**

(57) An object is to provide a heating/cooling system (100) capable of achieving reduction of power consumption, and enhancement of performance in a heating/cooling system usable in such a manner as to be switched to be hot/cold. The heating/cooling system having a storage chamber (1) usable in such a manner as to be switched to be hot/cold, comprises: a refrigerant circuit (10) comprising a compressor (11), a gas cooler (12), a pressure reducing device (16), an evaporator (17) and the like, containing carbon dioxide sealed as a refrigerant

therein, and having a supercritical pressure on a high-pressure side; a radiator (14) through which the refrigerant flowing out of the gas cooler (12) flows before entering the pressure reducing device (16); and an air blower (22) which sends air through the gas cooler (12), the inside of the storage chamber (1) is heated by the radiator (14), the inside of the storage chamber (1) is cooled by the evaporator (17), and the air blower (22) is stopped in a case where the inside of the storage chamber (1) is heated by the radiator (14).

FIG. 1



EP 1 564 506 A3



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	EP 1 316 450 A (BOSCH GMBH ROBERT [DE]) 4 June 2003 (2003-06-04) * paragraph [0012] - paragraph [0016]; figures 1,2 *	1,3	INV. F25B9/00 F25B5/02 F25B29/00 F25B41/04 F25D23/06 F25D11/02
X	----- WO 03/051657 A (SINVENT AS [NO]; AFLEKT KAARE [NO]; HAFNER ARMIN [NO]; JACKOBSEN ARNE) 26 June 2003 (2003-06-26) * page 6 - page 23; figures 1-34 * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			F25B F25D
-The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 5 February 2007	Examiner Szilagyi, Barnabas
CATEGORY OF CITED DOCUMENTS		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	
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			

4

EPO FORM 1503 03.82 (P04C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing 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:

1-4



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: 1-4

Heating/cooling system with functional features for
operating a fan

2. claims: 5-7

Heating/cooling system with a partition member for dividing
the storage chamber

3. claims: 8-20

Heating/cooling system with switching means and bypass
circuit

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

EP 05 25 0429

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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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82