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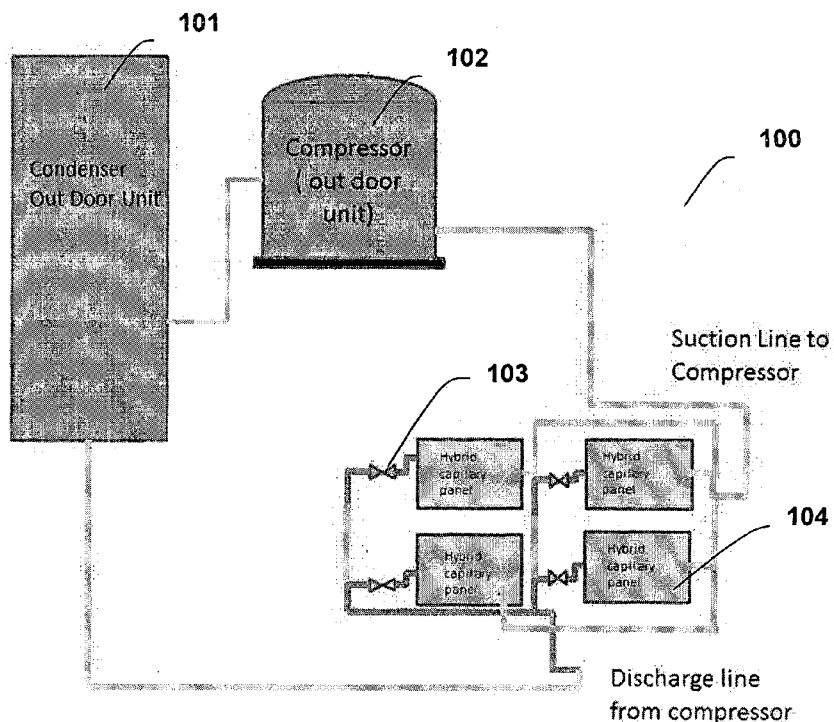
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**Declarations under Rule 4.17:**

— as to the identity of the inventor (Rule 4.17(i))

[Continued on next page]

(54) Title: HYBRID AIRCONDITIONING MODULE



(57) Abstract: A system for providing effective and efficient air conditioning using a plurality of hybrid capillary panels installed. The system includes a compressor and a condenser. The compressor has suction and discharge ports and a number of hybrid capillary panel units run between the compressor suction port and the condenser. One or more solenoid valves block and unblock at least one of the panel units. Further the hybrid capillary panel units comprise PCM (phase changing material) packs.





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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
  - *of inventorship (Rule 4.17(iv))*
  - *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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27 December 2013

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IN2013/000269

## A. CLASSIFICATION OF SUBJECT MATTER

See the extra sheet

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: F24F5/-; F25B39/-; F24F3/-

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CNPAT, EPODOC, WPL, air condition+, refrigerat+, capillary+, panel+, plat+, board+, radiat+, end+, phase chang+, valv+, control+

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN102032712A(CHONGQING UNIV.) 27 April 2011 (27. 04. 2011) paragraphs [0003] to [0013], figure 1	1-4
Y		5
Y	CN201666635U(ZHANG, Shizhong) 08 December 2010 (08. 12. 2010) paragraphs [0003] to [0019], figure 1	5
A	CN101571333A(CHONGQING UNIV.) 04 November 2009 (04. 11. 2009) the whole document	1-5
A	CN101033873A(WANG, Qikun)12 September 2007(12. 09. 2007) the whole document	1-5
A	CN101936580A(ZHENGZHOU MIDSOUTH KELAI AIR CONDITIONING EQUIPMENT CO., LTD.)05 January 2011(05. 01. 2011) the whole document	1-5

Further documents are listed in the continuation of Box C.

See patent family annex.

<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“L” document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>“&amp;”document member of the same patent family</p>
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Date of the actual completion of the international search  
**16 Sep. 2013 (16.09.2013)**

Date of mailing of the international search report  
**07 Nov. 2013 (07.11.2013)**

Name and mailing address of the ISA/CN  
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**INTERNATIONAL SEARCH REPORT**

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN202195547U(CHONGQING TIANHUI SHENGQUAN ELECTROMECHANICAL EQUIPMENT CO., LTD.)18 April 2012(18. 04. 2012) the whole document	1-5
A	US6990816B1(ADVANCED COOLING TECHNOLOGIES INC.)31 January 2006(31. 01. 2006) the whole document	1-5
A	EP1382916A2(CLINA HEIZ UND KUEHLELEMENTE GMBH)21 January 2004(21. 01. 2004) the whole document	1-5
A	DE102006008921A1(HERBST DONALD et al.)30 August 2007(30.08.2007) the whole	1-5
A	JP2001021159A(YASUZAWA TOMOMICHI)26 January 2001(26.01.2001) the whole document	1-5

**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.

PCT/IN2013/000269

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN102032712A	27. 04. 2011	None	
CN201666635U	08. 12. 2010	None	
CN101571333A	04. 11. 2009	None	
CN101033873A	12. 09. 2007	None	
CN101936580A	05. 01. 2011	None	
CN202195547U	18. 04. 2012	None	
US6990816B1	31. 01. 2006	None	
EP1382916A2	21. 01. 2004	DE10313384A1	29.01.2004
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DE102006008921A1	30.08.2007	WO2007042331A1	19.04.2007
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JP2001021159A	26.01.2001	None	

# INTERNATIONAL SEARCH REPORT

International application No.

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## CLASSIFICATION OF SUBJECT MATTER

F24F5/00(2006.01)i

F25B39/02(2006.01)j

F24F3/00(2006.01)i