

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 February 2008 (21.02.2008)

PCT

(10) International Publication Number
WO 2008/021775 A3

(51) International Patent Classification:

<i>F25D 17/06</i> (2006.01)	<i>F28D 3/00</i> (2006.01)
<i>F28C 1/00</i> (2006.01)	<i>F28D 5/00</i> (2006.01)
<i>B01D 9/04</i> (2006.01)	<i>F25B 39/04</i> (2006.01)
<i>B01D 47/16</i> (2006.01)	<i>F25B 23/00</i> (2006.01)
<i>B01D 47/00</i> (2006.01)	<i>F24F 7/06</i> (2006.01)
<i>B01D 24/00</i> (2006.01)	<i>F24F 1/00</i> (2006.01)
<i>B01D 39/00</i> (2006.01)	<i>F24F 3/00</i> (2006.01)
<i>B01D 53/22</i> (2006.01)	<i>F24F 5/00</i> (2006.01)
<i>B01D 59/12</i> (2006.01)	<i>F24F 7/007</i> (2006.01)
<i>B01D 39/02</i> (2006.01)	<i>F24F 7/00</i> (2006.01)
<i>B01D 39/14</i> (2006.01)	<i>F24F 13/00</i> (2006.01)
<i>C02F 1/22</i> (2006.01)	<i>G08B 21/00</i> (2006.01)

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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2007/075241

(22) International Filing Date: 6 August 2007 (06.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/463,037 8 August 2006 (08.08.2006) US

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(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

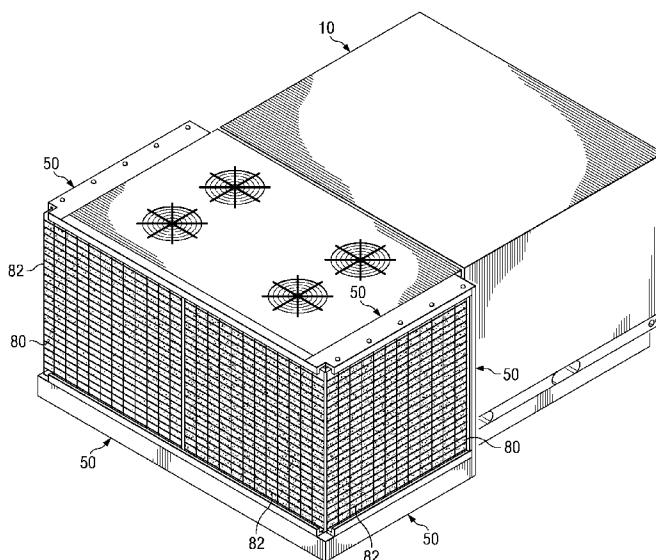
Published:

— with international search report

(88) Date of publication of the international search report:

6 November 2008

(54) Title: PREFILTER SYSTEM FOR HEAT TRANSFER UNIT AND METHOD



(57) Abstract: A method of transferring heat is accomplished by providing a heat exchanger unit (10) that is at least partially air cooled. The heat exchanger unit (10) has an evaporator, condenser (20), compressor and a fan (22) for forcing air over an exteriorly located heat exchange surface of the condenser (20). A fiberglass filter element (80) is positioned adjacent to the heat exchange surface of the condenser (20) for capturing at least one of grease, debris and other contaminants that are not entrained within any liquid cooling fluid that would otherwise contact the heat exchange surface (20). The filter element (80) is allowed to capture the at least one of grease, debris and other contaminants prior to contact with the heat exchange surface of the condenser (20).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/75241

A. CLASSIFICATION OF SUBJECT MATTER

IPC: Please See Continuation Sheet

USPC: Please See Continuation 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)

U.S. : Please See Continuation Sheet

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)
Conducted electronic search by using search engine EAST.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,067,205 A (MAYHUE) 10 January 1978, see Fig. 1, column 3, line 58 to column3, line 45.	1-2, 4, 10-13 and 15
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Y		3, 5-9, 14 and 16-18
Y	JP 2002-282706 A (MORITA et al) 02 October 2002, see the abstract.	3
Y	US 6,737,277 B1 (KANG et al) 18 May 2004, see column 6, lines 29-45.	5
Y	US 6,579,350 B2 (DOHERTY) 17 June 2003, see column 9, lines 21-26.	6
Y	US Re.31,360 E (MANNO) 30 August 1983, see Fig. 2 item 6.	7-8 and 17-18
Y	US 6,490,879 B1 (LLOYD et al) 10 December 2002, see Fig. 9 for first filter 27 and second filter 29.	9

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
29 July 2008 (29.07.2008)

Date of mailing of the international search report
22 AUG 2008

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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.
Y	US 5,476,526 A (ATTERMEYER) 19 December 1995, see Fig. 1 and 2 for mesh support made by frame member 42 and 44.	14
Y	US 5,351,035 A (CHRISCO) 27 September 1994, see column 1, line 61 to column 2, line 27.	16

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 1:

62/92, 121, 123, 171, 183, 305, 419, 467, 506; 454/228, 229, 230, 233, 236, 239, 241, 249; 261/98, 111; 210/503, 505; 96/8, 10; 340/607, 626

Continuation of IPC:

F25D 17/06(2006.01); **F28C 1/00**(2006.01); **B01D 9/04**(2006.01); **47/16**(2006.01); **47/00**(2006.01); **24/00**(2006.01); **39/00**(2006.01); **52/22, 59/12**(2006.01); **39/02**(2006.01); **39/14**(2006.01); **C02F 1/22**(2006.01); **F28D 3/00**(2006.01); **5/00**(2006.01); **F25B 39/04**(2006.01); **23/00**(2006.01); **F24F 7/06**(2006.01); **1/00**(2006.01); **3/00**(2006.01); **5/00**(2006.01); **7/007**(2006.01); **7/00**(2006.01); **13/00**(2006.01); **G08B 21/00**(2006.01)

Continuation of USPC:

62/92, 121, 123, 171, 183, 305, 419, 467, 506; 454/228, 229, 230, 233, 236, 239, 241, 249; 261/98, 111; 210/503, 505; 96/8, 10; 340/607, 626