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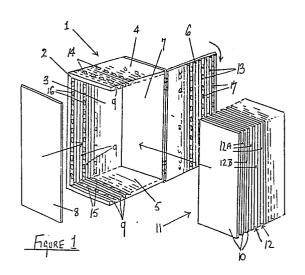
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(54) Heat exchanger.

The heat-exchanger comprises a set of parallel spaced apart heat-conducting plates (10) mounted in a frame member (2) surrounding and engaging the peripheries of the plates. The plates are so mounted to the frame member for example, in grooves (9) or in rubber mountings, that they are readily detached and removed for cleaning and/or replacement when a portion of the frame member is removed or opens upon a hinge. Two separate fluids are introduced into and exhausted from alternating sets of channels (12) formed between the plates through inlet (14, 16) and outlet (15, 17) passages in the frame member whereby heat-exchange takes place through the plates. The fluids may travel at right angles to each other, co-currently or in counter-current.





EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT						
Category	Citation of document with indication, where appropriate, of relevant passages		ropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)	
A	GB-A- 228 21 * Page 4, lin- lines 38-51,8	es 24-49; p	age 5, s 1 - 5 *	1,2,4	F 28 G F 28 D F 28 F	9/00
A	GB-A- 285 550 * Page 3, line 114 - pagures 1-3 *	lines 9-37;		1,2,4		
A	FR-A- 627 646 LTD) : * Page 1, lin 30; figures 1	ne 39 - page :		1		
A	US-A-2 816 740 * Column 2, 1: line 9; figure	ine 23 - col	umn 4,	1	TECHNICAL SEARCHED (
A	DE-A-3 113 314 INGENIEURGESEN KG) * Page 9, line 29 - page ures 2-5 *	LLSCHAFT mbH . lines 1-30; p	& CO. age 13,	1,4	F 28 G F 28 D F 28 F B 29 D	
A	US-A-2 621 900 * Column 2, line 11; column figures 1,2 *	line 32 - co		1,4		
			-/-			
	The present search report ha	as been drawn up for all clain	ns			
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Y: particularly relevant if combined with another document of the same category
 A: technological background
 O: non-written disclosure
 P: intermediate document

D: document cited in the application L: document cited for other reasons

& : member of the same patent family, corresponding document



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	DOCUMENTS CONS	Page 2		
Category	Citation of document wi	th indication, where appropriate, vant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4.)
A	GB-A-2 127 535 LTD) * Page 1, line 6; figure 1 *	(MARSTON PALMER 65 - page 2, line	1,2,6	
A	US-A-2 869 835 * Column 1, line line 33; figure:	e 66 - column 2,	1,2,6,	
A	PATENT ABSTRACT: 7, no. 265 (M-2)	 S OF JAPAN, vol. 58)[1410], 25th & JP-A-58 145 891	1,2	
				TECHNICAL FIELDS SEARCHED (Int. CI. 4)
Y:pa	The present search report has THE acate Search CATEGORY OF CITED DOCUMENT CONTROL OF CO	Data_ot_comenion ඉහළ search UMENTS T : theory o	r principle underl	ZUNE an EnerC. ying the invention out published on, or olication reasons