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(71) Applicant:
MATSUSHITA REFRIGERATION COMPANY
Higashiosaka-shi, Osaka 577 (JP)

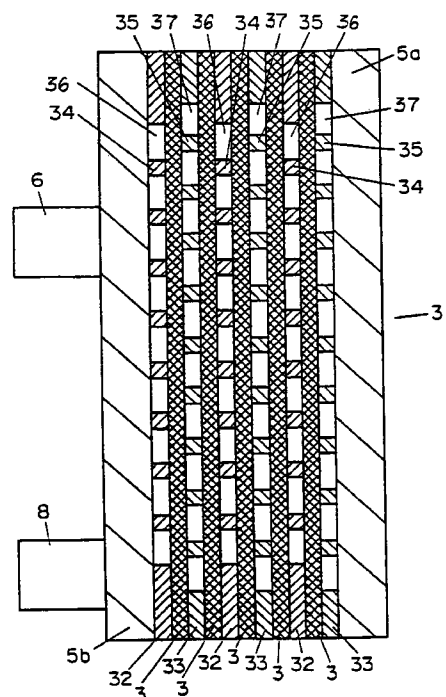
(72) Inventors:
• **Matsunaga, Tsuyoshi**
Yasugun, Shiga 520-23 (JP)
• **Fujino, Kenji**
Nara-shi, Nara 630 (JP)
• **Sugahara, Takashi**
Otsu-shi, Shiga 520-21 (JP)
• **Kan, Hiroaki**
Otsu-shi, Shiga 520-22 (JP)

(74) Representative:
Eisenführ, Speiser & Partner
Martinistrasse 24
28195 Bremen (DE)

(54) **Layer-built heat exchanger**

(57) A layer-built heat exchanger in which channels are formed by dividers in the first-side plate 32 and second-side plate 33, and a seal plate 3 is interposed between the first- and second-side plates. The first-side plate 32 and second-side plate 33 are positioned relative to each other such that the dividers 35 of the second-side plate 33 are in line with the channels 11 of the first-side plate 32, and the dividers 34 of the first-side plate 32 are in line with the channels 17 of the second-side plate 33, thus preventing deformation of the seal plate 3 due to a high differential pressure between the coolants flowing through the channels of the first- and second-side plates. The corners of the first-side plate 32, second-side plate 33, and seal plate 3 are also shaped differently so that omission of one of the component plates can be easily confirmed.

FIG. 6



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
P,X	PATENT ABSTRACTS OF JAPAN vol. 015, no. 222 (M-1121), 6 June 1991 & JP 03 063496 A (MATSUSHITA REFRIG CO LTD), 19 March 1991, * abstract *	1	F28F3/08 F28D9/00 F28F9/04
A	--- PATENT ABSTRACTS OF JAPAN vol. 013, no. 189 (M-821), 8 May 1989 & JP 01 014595 A (MATSUSHITA REFRIG CO), 18 January 1989, * abstract *	1	
A	--- PATENT ABSTRACTS OF JAPAN vol. 014, no. 198 (M-0965), 23 April 1990 & JP 02 040496 A (MATSUSHITA REFRIG CO LTD), 9 February 1990, * abstract *	1	
A	--- DE 229 510 C (S. MERTENS) * page 1, line 14 - line 23; figure 6 *	2	
A	--- FR 1 345 756 A (ALFA-LAVAL) * figure 3 *	2	TECHNICAL FIELDS SEARCHED (Int.Cl.6) F28D F28F
A	--- GB 788 185 A (AKTIEBOLAGET SEPARATOR) -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 14 November 1997	Examiner Verveer, D
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 O : non-written disclosure P : intermediate document 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			

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