

Title (en)
Layer-built heat exchanger

Title (de)
Wärmetauscher mit gestapelten Platten

Title (fr)
Echangeur de chaleur à plaques empilées

Publication
EP 0730132 A3 19980114 (EN)

Application
EP 96107852 A 19910927

Priority
• EP 91916786 A 19910927
• JP 26099290 A 19900928
• JP 28872590 A 19901026
• JP 7287191 A 19910405

Abstract (en)
[origin: EP0730134A2] 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.

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F28F 3/08

IPC 8 full level
F28D 9/00 (2006.01)

CPC (source: EP)
F28D 9/0062 (2013.01); **F28D 9/0075** (2013.01); **F28F 2250/102** (2013.01); **F28F 2280/04** (2013.01)

Citation (search report)
• [X] US 4503908 A 19850312 - ROSMAN IRWIN E [US], et al
• [A] FR 1603631 A 19710510
• [X] PATENT ABSTRACTS OF JAPAN vol. 012, no. 067 (M - 673) 2 March 1988 (1988-03-02)
• [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 189 (M - 821) 8 May 1989 (1989-05-08)
• [A] PATENT ABSTRACTS OF JAPAN vol. 004, no. 171 (M - 044) 26 November 1980 (1980-11-26)

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ES2150395A1

Designated contracting state (EPC)
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EP 0730134 A2 19960904; EP 0730134 A3 19980114; EP 0730134 B1 20010103; DE 69125819 D1 19970528; DE 69125819 T2 19971211; DE 69132499 D1 20010208; DE 69132499 T2 20010419; EP 0503080 A1 19920916; EP 0503080 A4 19940608; EP 0503080 B1 19970423; EP 0730132 A2 19960904; EP 0730132 A3 19980114; EP 0730133 A2 19960904; EP 0730133 A3 19980114; WO 9206343 A1 19920416

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EP 96107859 A 19910927; DE 69125819 T 19910927; DE 69132499 T 19910927; EP 91916786 A 19910927; EP 96107852 A 19910927; EP 96107853 A 19910927; JP 9101292 W 19910927