

Title (en)

Layer-built heat exchanger

Title (de)

Wärmetauscher mit gestapelten Platten

Title (fr)

Echangeur de chaleur à plaques empilées

Publication

EP 0730133 A3 19980114 (EN)

Application

EP 96107853 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.

IPC 1-7

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)

- [XY] US 4815534 A 19890328 - FUERSCHBACH RAYMOND F [US]
- [Y] EP 0134155 A1 19850313 - APV INT LTD [GB]
- [A] US 2582871 A 19520115 - KINTNER EDWIN K
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 189 (M - 821) 8 May 1989 (1989-05-08)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 311 (M - 528) 23 October 1986 (1986-10-23)

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Designated contracting state (EPC)

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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