

Title (en)
Layer-built heat exchanger

Title (de)
Wärmetauscher mit gestapelten Platten

Title (fr)
Echangeur de chaleur à plaques empilées

Publication
EP 0730134 A3 19980114 (EN)

Application
EP 96107859 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)
• [A] DE 229510 C
• [A] FR 1345756 A 19631213 - ALFA LAVAL AG
• [A] GB 788185 A 19571223 - SEPARATOR AB
• [PX] PATENT ABSTRACTS OF JAPAN vol. 015, no. 222 (M - 1121) 6 June 1991 (1991-06-06)
• [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 189 (M - 821) 8 May 1989 (1989-05-08)
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 198 (M - 0965) 23 April 1990 (1990-04-23)

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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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