

Title (en)  
Layer-built heat exchanger

Title (de)  
Wärmetauscher mit gestapelten Platten

Title (fr)  
Echangeur de chaleur à plaques empilées

Publication  
**EP 0730134 A2 19960904 (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)  
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 (applicant)  
JP S61243297 A 19861029 - MATSUSHITA ELECTRIC IND CO LTD

Cited by  
KR20160129144A; FR2880106A1; WO2006072686A1

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**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

DOCDB simple family (application)  
**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