

Title (en)  
PLATE-TYPE HEAT EXCHANGE UNIT AND METHOD OF FORMING SAME

Publication  
**EP 0206416 A3 19870902 (EN)**

Application  
**EP 86201052 A 19860617**

Priority  
• US 74585785 A 19850617  
• US 79521285 A 19851105

Abstract (en)  
[origin: EP0206416A2] A heat exchange unit utilizing a sandwich plate-type construction with multiple plates joined together such as by welds in selected patterns extending substantially over the unit. Inner plates (102,104) are pillowed to define an inner fluid passage (114) within the inner plates and between the joints. Other plates (106,108) outwardly of the inner plates are also pillowed to define outer fluid passages (116,118) between the joints at each side of the inner passage, thus providing three or more parallel fluid passages for heat transfer therebetween. The plate-type heat exchanger is formed by joining plates together in selected joining patterns, and expanding selected plates relative to other plates to pillow the selected plates to form at least one inner fluid passage between plates and at least two other fluid passages outwardly of the inner passage at each side thereof.

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IPC 8 full level  
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CPC (source: EP)  
**F28F 3/14** (2013.01)

Citation (search report)  
• [X] US 3206839 A 19650921 - TRANEL LESTER J, et al  
• [A] US 3140755 A 19640714 - JOSEPH TRANEL LESTER  
• [A] US 3927817 A 19751223 - HAMILTON C HOWARD, et al

Cited by  
EP2413081A1; CN106152838A; US7853131B2; US8820224B2; US7316666B1; WO9514197A1; EP1327489B1; EP2413081B1

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