

Title (en)  
Heat exchanger and method for manufacturing the same

Title (de)  
Wärmetauscher und Verfahren zu dessen Herstellung

Title (fr)  
Echangeur de chaleur et sa méthode de fabrication

Publication  
**EP 0863376 A3 19990811 (EN)**

Application  
**EP 98301610 A 19980304**

Priority  
JP 6743797 A 19970305

Abstract (en)  
[origin: EP0863376A2] A heat exchanger (1) includes a header pipe (2, 3) comprising a header pipe body (6) and connecting portions (13, 14) projecting outwardly from the surface of the header pipe body (6) and connected to each other at a plane contact condition. A joint block (16) or a bracket (15) is connected to header pipe (2, 3) so that the joint block (16) or bracket (15) is brought into contact with both the header pipe body (6) and one or two connecting portions (13, 14). The joint block (16) or bracket (15) is precisely positioned relative to header pipe (2, 3), and a good brazing property therebetween can be achieved.

IPC 1-7  
**F28F 9/02**; **F28F 9/00**

IPC 8 full level  
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CPC (source: EP)  
**F28F 9/002** (2013.01); **F28F 9/0243** (2013.01); **F28F 9/0246** (2013.01); **F28F 9/0251** (2013.01)

Citation (search report)  
• [A] US 5325914 A 19940705 - TANAKA HIROSHI [JP]  
• [A] US 5172762 A 19921222 - SHINMURA TOSHIHARU [JP], et al

Cited by  
EP1004841A3; DE10237769A1; FR2958386A1; FR2958388A1; EP1956333A1; CN113587494A; US6971445B2; US6450253B1; WO2011120975A1; WO03098142A1

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