

Title (en)  
Laminated heat exchanger

Title (de)  
Lamellenwärmetauscher

Title (fr)  
Echangeur de chaleur à lames

Publication  
**EP 0872698 A2 19981021 (EN)**

Application  
**EP 98302413 A 19980330**

Priority  
JP 11339797 A 19970415

Abstract (en)  
The intake / outlet portion (10) which is to be connected to the block type expansion valve (20) is constituted of a first intake / outlet formation portion (10A) for forming a coolant intake (53) and a coolant outlet (54) that is secured at the outside in the direction of lamination of the tube element (2) located at one of the outermost ends in the direction of the lamination and a second intake / outlet formation portion (10B) that is bonded face-to-face with the first intake / outlet formation portion (10A) in the direction of the lamination to form a coolant intake passage (63) communicating with the coolant intake and a coolant outlet passage (64) communicating with the coolant outlet. Tube elements (2), fins (3), the first and second intake / outlet formation portions (10A,10B) and end plates (4,5) are temporarily assembled and then brazed in a furnace to be formed as an integrated unit.  
<IMAGE>

IPC 1-7  
**F28D 1/03**; **F28F 9/04**

IPC 8 full level  
**F28D 1/03** (2006.01); **F28F 3/08** (2006.01); **F28F 9/04** (2006.01)

CPC (source: EP)  
**F28D 1/0341** (2013.01); **F28F 9/0246** (2013.01); **F28F 9/0253** (2013.01)

Citation (applicant)  
• JP H0741259 U 19950721  
• JP H08271177 A 19961018 - ZEXEL CORP

Cited by  
FR2826437A1; EP1130349A3; FR3066149A1; US6453990B2; WO2018206818A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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