

Title (en)  
HEAT EXCHANGER TUBE

Title (de)  
WÄRMETAUSCHERROHR

Title (fr)  
TUBE POUR ECHANGEUR THERMIQUE

Publication  
**EP 1681528 A4 20130612 (EN)**

Application  
**EP 04773389 A 20040916**

Priority  
• JP 2004014005 W 20040916  
• JP 2003340601 A 20030930

Abstract (en)  
[origin: EP1681528A1] In a heat exchanger tube, a brazing material, which is required for brazing tops (310) of inner fins (300) which are a flow passage dividing body and the inner surface of a tube body portion (200), not clad to a first material which constitutes the tube body portion but clad to a second material which constitutes the inner fins. In the heat exchanger tube, the tube has a thickness  $t_{\text{tube}}$  of 1.2 mm or less and a width  $W_{\text{tube}}$  of 16 mm or less, the first material has a thickness  $t_1$  of 0.25 mm or less, the second material has a thickness  $t_2$  of 0.10 mm or less, and the flow passages divided by the inner fins have an equivalent diameter of 0.559 mm or less. Besides, when brazing in a furnace, a brazing material disposed within the flow passages melts earlier than a brazing material which penetrates from outside into the flow passages, thereby preventing the flow passages from being clogged.

IPC 8 full level  
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Citation (search report)  
• [XII] US 5839646 A 19981124 - DUDA BERND [DE], et al  
• [XII] US 5295302 A 19940322 - TAKAI TORU [JP], et al  
• [XII] JP H04198692 A 19920720 - NIPPON DENSO CO  
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• [A] JP H10249515 A 19980922 - CALSONIC CORP  
• See references of WO 2005033606A1

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