

Title (en)  
TUBE BUNDLE HEAT EXCHANGER

Title (de)  
ROHRBÜNDEL-WÄRMETAUSCHER

Title (fr)  
ECHANGEUR DE CHALEUR A FAISCEAU DE TUBES

Publication  
**EP 1979699 A1 20081015 (DE)**

Application  
**EP 07702370 A 20070119**

Priority  
• DE 2007000089 W 20070119  
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Abstract (en)  
[origin: WO2007082515A1] The invention relates to a tube bundle heat exchanger having tubes (2) which are held at each side in tube plates (3, 4) or oval-tube collecting-tube plates (5, 6) and are connected to these in each case by means of a weld seam (7), wherein the connection of the tubes (2) to the inlet-side tube plate (3) or oval-tube collecting-tube plate (5) is formed in each case by means of a conical and/or trumpet-shaped transition piece (10) whose cross section reduces as viewed in the gas flow direction in such a way that the inlet-side end (16), as viewed in the gas flow direction, of the transition piece (10) is connected in the manner of a butt joint to the tube plate (3) or oval-tube collecting-tube plate (5), and the inner and outer contours (11, 12) of the transition piece (10) and of the welded connection region (13) are formed without gaps and corners to the tube plate (3) or oval-tube collecting-tube plate (5) and so as to be straight and/or with a radius (R), measured from the outer contour (12), of at least 5 mm.

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**F28D 7/106** (2013.01 - EP US); **F28D 7/16** (2013.01 - EP US); **F28F 1/003** (2013.01 - US); **F28F 1/006** (2013.01 - US); **F28F 9/182** (2013.01 - EP US); **F28F 9/185** (2013.01 - EP US); **F28F 2275/067** (2013.01 - US)

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See references of WO 2007082515A1

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