

Title (en)
TUBE BUNDLE HEAT EXCHANGER AND WASTE GAS HEAT RECOVERY DEVICE

Title (de)
ROHRBÜNDEL -WÄRMETAUSCHER UND ABGASWÄRMERÜCKGEWINNUNGSVORRICHTUNG

Title (fr)
ÉCHANGEUR DE CHALEUR À FAISCEAU TUBULAIRE ET DISPOSITIF DE RÉCUPÉRATION DE CHALEUR DES GAZ D'ÉCHAPPEMENT

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Application
EP 11773176 A 20110927

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Abstract (en)
[origin: WO2012048800A1] The invention relates to a tube bundle heat exchanger having a plurality of tube windings (1) through which a heat transfer medium flows in parallel. The tube windings start from a common inlet chamber (2) for the heat transfer medium and open into a common outlet chamber (3). Each tube winding comprises an alternating sequence of tube sections (6) running alternately in two planes parallel to each other, and tube bends (7) connecting same, wherein within each of the two planes four or more pipe sections extend disposed side by side or parallel to each other, and wherein the pipe bends are designed to have a change of direction through 180° with respect to an associated bend axis and have the same bend radii. The invention is characterised in that along each tube winding the bend axes of tube bends that are connected to the same tube section are positioned at an angle of between 85° and 95° to each other, and the bend axes of tube bends, between which a tube section, a tube bend and a further tube section are arranged in immediate sequence, run parallel.

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