

Title (en)
COLLECTOR TUBE FOR A HEAT TRANSFER UNIT AND METHOD FOR PRODUCING SAME

Title (de)
SAMMELROHR FÜR EINEN WÄRMEÜBERTRAGER UND HERSTELLUNGSVERFAHREN HIERFÜR

Title (fr)
TUBE COLLECTEUR POUR ECHANGEUR DE CHALEUR ET SON PROCEDE DE FABRICATION

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Application
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Abstract (en)
[origin: US6993838B1] The invention relates to a collector tube (1) for a heat transfer unit. The tube comprises one or several slits (3 d) on the periphery thereof, whereby said slits are formed by a punch press without an inner die or by high-pressure shaping for inserting a respective flat tube. The invention also relates to a method for producing said collector tube (1). According to the invention, a collector tube (1) is provided with an outer radius (D/2) to tube wall thickness (s) ratio of less than 5. The slits (3 d) are introduced preferably parallel to, or at an acute 2 angle to the longitudinal axis of the tube. The collection tube can be produced by bending a flat material and subsequently sealing the longitudinal slits arising from the bending process by soldering or welding. Said collector tube can be used, e.g. for gas coolers and evaporators for CO₂air conditioning systems in motor vehicles.

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