

Title (en)
IMPROVED TUBE FOR HEAT EXCHANGERS

Title (de)
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Title (fr)
TUBE AM LIOR POUR CHANGEURS DE CHALEUR

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Application
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Abstract (en)
[origin: WO0118406A1] The present invention relates to tubes useful for heat exchangers. The present invention's improved dual radius cross-sectional profile is formed from two sets of circles (100a,b and 200a,b), each set of circles having the same radius but the two sets having different radii. The present invention's dual radius tube non-elliptical profile is therefore defined by two sets of opposing, intersecting arcs (101, 102 and 201, 202) that form a dual radius tubular with two unequal sets of radii of predetermined values. Because each radius within a set of radii is equal, each of the opposing sides within a set of sides is substantially symmetrical, but because each set of sides are arcs of circles the sides are not flattened. The improved tube's overall dual radius cross-sectional profile is therefore neither elliptical, round, rectangular, nor obround. The dual radius profile aids in creating turbulence in a fluid within the tube, enhancing heat transmissivity. The tube may also be twisted into a predetermined number of twists, creating further turbulence in a fluid within and without the tube and further enhancing heat transmissivity.

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