Title (en)

FLAT TUBE WITH TRANSVERSALLY OFFSET U-BEND SECTION AND HEAT EXCHANGER CONFIGURED USING SAME

Title (de)

FLACHROHR MIT QUERVERSATZ-UMKEHRBOGENABSCHNITT UND DAMIT AUFGEBAUTER WÄRMEÜBERTRAGER

Title (fr)

TUBE PLAT AVEC UNE PARTIE COUDEE EN U, DECALEE TRANSVERSALEMENT, ET ECHANGEUR DE CHALEUR CON U A PARTIR DE CE DERNIER

Publication

**EP 1036296 A1 20000920 (DE)**

Application

**EP 99945947 A 19990709**

Priority

- DE 9902125 W 19990709
- DE 19830863 A 19980710

Abstract (en)

[origin: DE19830863A1] The invention relates to a flat tube (1) with at least one U-bend section (3) in which the tube is bent such that its two flat tubular sections (2a, 2b), which are adjacent to the U-bend section, in their longitudinal direction have opposite directions of flow (4a, 4b) and longitudinal axes (5a, 5b) which are offset in relation to each other at least in the transverse direction (4). The flat tube transverse axis (7) forms an angle of no more than 45 DEG with a plane which is parallel to the longitudinal and transverse direction and vertical to a direction of stacking.

IPC 1-7 (main, further and additional classification)

**F28F 1/02**; F28D 1/047

IPC 8 full level (invention and additional information)

**F28D 1/047** (2006.01); **F28F 1/02** (2006.01)

CPC (invention and additional information)

**F28D 1/0478** (2013.01); **F28D 1/0476** (2013.01); **F28F 1/025** (2013.01); F28D 2021/0085 (2013.01)

Citation (search report)

See references of WO 0003190A1

Cited by

DE102006018688B4; DE102006018688A1; WO2018039680A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family

DE 19830863 A1 20000113; AU 5849199 A 20000201; EP 1036296 A1 20000920; EP 1036296 B1 20040102; JP 2002520570 A 20020709; US 6546999 B1 20030415; WO 0003190 A1 20000120