

Title (en)

A HEAT EXCHANGER TUBE PACKAGE

Title (de)

WÄRMETAUSCHERROHRPAKET

Title (fr)

ENSEMBLE TUBE D'ÉCHANGEUR DE CHALEUR

Publication

EP 4345408 A1 20240403 (EN)

Application

EP 22460046 A 20220930

Priority

EP 22460046 A 20220930

Abstract (en)

A heat exchange tube package in which the tubes are arranged parallel to one another, is characterised in that at least some of the tubes (2) are bulged at one of their ends, where the rim (2a) of the bulged end of the tube (2) is in a shape other than circular, and where the tubes (2) are arranged in the package (1) according to a pre-set pattern and the rims of the ends of all tubes (2) on both sides of the package are permanently connected to one another. Preferably, the rim (2a) of the bulged end of each tube (2) in the package (1) is in the shape of a regular hexagon or equilateral triangle or square with concave sides, or its shape is convex and concave. Preferably, the rims 2a of the tubes (2) are connected to one another with a weld.

IPC 8 full level

F28F 1/00 (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)

F28F 1/006 (2013.01); **F28F 9/0221** (2013.01)

Citation (applicant)

- PL 219104 B1 20150331 - AIC SPÓŁKA AKCYJNA [PL]
- WO 2013048269 A2 20130404 - AIC SP Z O O [PL]
- EP 3394522 B1 20200826 - AIC S A [PL]

Citation (search report)

- [X] US 7240723 B2 20070710 - WU ALAN K [CA], et al
- [X] US 3297081 A 19670110 - NUNEMAKER LESTER M
- [X] DE 3830800 C1 19900419
- [X] JP S5843392 A 19830314 - TOKYO SHIBAURA ELECTRIC CO
- [X] FR 1248568 A 19601216 - SOUDURE AUTogene FRANCAISE

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

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