

Title (en)

SUPPORT OF TUBES IN COIL WOUND HEAT EXCHANGER

Title (de)

ABSTÜTZUNG VON ROHREN GEWICKELTER WÄRMEÜBERTRAGER

Title (fr)

SUPPORT DE TUBES D'UN ÉCHANGEUR THERMIQUE ENROULÉ

Publication

EP 3830510 B1 20230524 (DE)

Application

EP 19745563 A 20190723

Priority

- DE 102018006007 A 20180728
- EP 2019025243 W 20190723

Abstract (en)

[origin: WO2020025167A1] The invention relates to a heat exchanger (1), comprising: a tube bundle (3) having at least one tube (30) for receiving a fluid medium (M), wherein the at least one tube (30) is wound about a core tube (300) which extends along a longitudinal axis (z), and a first tube section (31) of the at least one tube (30) rests against at least one web (10) which extends along the tube core (300); and at least one first bracket element (41) for securing the first tube section (31) to the at least one web (10), the at least one first bracket element (41) having a lower face (41a) which faces the first tube section (31) and rests against the first tube section (31). According to the invention, the at least one first bracket element (41) has at least one first securing region (411) which forms an elevation (400) on an upper face (41b) of the at least one first bracket element (41), said upper face facing away from the lower face (41a), and which forms a depression (401) on the lower face (41a) of the at least one first bracket element (41). The invention additionally relates to a securing system and to a method.

IPC 8 full level

B21D 9/00 (2006.01); **B21D 53/02** (2006.01); **F28D 7/02** (2006.01)

CPC (source: EP US)

B21D 53/027 (2013.01 - US); **F28D 7/024** (2013.01 - EP US); **F28F 9/013** (2013.01 - US); **F28F 9/0132** (2013.01 - US); **B21D 53/027** (2013.01 - EP); **F28F 2275/06** (2013.01 - EP US); **F28F 2275/08** (2013.01 - EP US); **F28F 2280/00** (2013.01 - EP)

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

DOCDB simple family (publication)

WO 2020025167 A1 20200206; EP 3830510 A1 20210609; EP 3830510 B1 20230524; US 11536519 B2 20221227; US 2021310753 A1 20211107

DOCDB simple family (application)

EP 2019025243 W 20190723; EP 19745563 A 20190723; US 201917263004 A 20190723