

Title (en)
HEAT EXCHANGER ASSEMBLY

Title (de)
WÄRMETAUSCHERANORDNUNG

Title (fr)
ENSEMBLE ÉCHANGEUR THERMIQUE

Publication
EP 3396296 B1 20200909 (EN)

Application
EP 17461529 A 20170428

Priority
EP 17461529 A 20170428

Abstract (en)
[origin: EP3396296A1] The present invention relates to a heat exchanger assembly (1) comprising a housing (2); a core (3) situated inside the housing (2); two headers (4) placed on the core (3); and inlet and outlet conduits (51, 52) covering the headers (4). The headers (4) comprise a plurality of teeth (41), which are bent over the inlet and outlet conduits (51, 52). The teeth (41) are provided with an undercut (43) having an undercut axis (A), which divides the teeth (41) into a base portion (41a) and a bendable portion (41b). Before bending the teeth (41) over the inlet and outlet conduits (51, 52) : the undercut (43) has a substantially elliptic cross-section; a semi-minor axis (A1) of an ellipse of the undercut cross section coincides with the undercut axis (A); the semi-minor axis (A1) has a length, which is at least half of a general thickness (GT) of the teeth (41); and a reduced thickness (RT) of the teeth (41) at the undercuts (43) is at most two times smaller than a height (H) of the bendable portion (41b).

IPC 8 full level
F28F 9/02 (2006.01); **B21D 11/08** (2006.01)

CPC (source: EP)
B21D 11/08 (2013.01); **B21D 53/04** (2013.01); **F28F 9/0226** (2013.01); **F28F 2275/122** (2013.01); **F28F 2275/16** (2013.01)

Cited by
US2022325964A1; EP3722724B1

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)
EP 3396296 A1 20181031; EP 3396296 B1 20200909

DOCDB simple family (application)
EP 17461529 A 20170428