

Title (en)
FLAT TUBE

Title (de)
FLACHRÖHRE

Title (fr)
TUBE PLAT

Publication
EP 4151942 A1 20230322 (EN)

Application
EP 21196856 A 20210915

Priority
EP 21196856 A 20210915

Abstract (en)
The invention relates to a flat tube (1) for a heat exchanger. The flat tube (1) has two broad sites (2a, 2b) and two narrow sites (3a, 3b) which are connected to each other and delimit a flow space (4). The flow space (4) extends in a longitudinal direction (LR). According to the invention, at least one barrel-shaped region (8) is formed on at least one of the broad sites (2a, 2b) of the flat tube (1). The barrel-shaped region (8) extends in the longitudinal direction (LR) and is convex transversely to the longitudinal direction (LR) and outwardly with respect to the flow space (4). The invention also relates to a heat exchanger with the flat tube (1).

IPC 8 full level
F28D 1/03 (2006.01); **F28F 1/02** (2006.01)

CPC (source: EP)
F28D 1/0358 (2013.01); **F28D 1/0391** (2013.01); **F28F 1/022** (2013.01); **F28F 1/025** (2013.01); **F28F 1/126** (2013.01)

Citation (search report)

- [X] JP 2002130972 A 20020509 - JAPAN CLIMATE SYSTEMS CORP
- [X] US 2016107268 A1 20160421 - JANSSEN HARTMUT [DE]
- [X] JP 2007232339 A 20070913 - UNIV TOKYO, et al
- [X] FR 400553 A 19090731 - D MCR LIVINGSTON [US]
- [X] FR 2757258 A1 19980619 - VALEO EQUIP ELECTR MOTEUR [FR]
- [X] DE 3327660 A1 19841220 - MTU MUENCHEN GMBH [DE]

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

DOCDB simple family (publication)
EP 4151942 A1 20230322

DOCDB simple family (application)
EP 21196856 A 20210915