Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEÜBERTRAGER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 3332206 A1 20180613 (DE)

Application
EP 16745757 A 20160802

Priority
• DE 102015215053 A 20150806
• EP 2016068452 W 20160802

Abstract (en)
[origin: WO2017021416A1] The invention relates to a heat exchanger (1), comprising tubes (2) and corrugated fins (3) arranged therebetween, which corrugated fins have straight flanks (4) and have corrugation peaks (7) and corrugation toughs (6) each having a curve (5). It is essential to the invention that the curve (5) of a corrugation peak (6) has a curved first segment (9) and a linear second segment (10), wherein the second segment (10) is twice as long as the first segment (9), and the first segment (9) and the second segment (10) have an opposite slope of 0.1 to 0.5%; or that the curve (5) of a corrugation peak (6) has a curved first segment (9) and an equally long second segment (10) curved in the same direction, wherein, in the case of unloaded corrugated fins (3), a tolerance distance a remains between two adjacent corrugation peaks (6), which tolerance distance a is dimensioned in such a way that the tolerance distance a goes to zero in the state of installation in the heat exchanger (1) and the corrugation peaks (6) thus lie in contact with each other.

IPC 8 full level
F28F 1/12 (2006.01)

CPC (source: EP US)
F28F 1/126 (2013.01 - EP US); **F28F 1/128** (2013.01 - EP US); **F28F 1/325** (2013.01 - US); F28F 2215/02 (2013.01 - US); F28F 2215/04 (2013.01 - US); F28F 2215/08 (2013.01 - US)

Citation (search report)
See references of WO 2017021416A1

Cited by
DE102020212488A1; US12017548B2

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

DOCDB simple family (publication)
WO 2017021416 A1 20170209; CN 107850402 A 20180327; DE 102015215053 A1 20170209; EP 3332206 A1 20180613; EP 3332206 B1 20190403; US 2019242658 A1 20190808

DOCDB simple family (application)
EP 2016068452 W 20160802; CN 201680044806 A 20160802; DE 102015215053 A 20150806; EP 16745757 A 20160802; US 201615748642 A 20160802