

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 3523590 A1 20190814 (DE)

Application
EP 17784161 A 20171006

Priority
• AT 509112016 A 20161007
• AT 2017060252 W 20171006

Abstract (en)
[origin: WO2018064696A1] The invention relates to a heat exchanger (1), in particular oil-air cooler, for heat exchange between a first fluid (F1) and a second fluid (F2), having: at least a first row (R1) of tubular elements (2) and a second row (R2) of tubular elements (2), each for passage of the first fluid (F1), a flow channel (3) for the second fluid (F2) being formed between the first and second rows (R1, R2) of tubular elements (2); a collection vessel (4) at one end (ES) of the tubular elements (2); and a distribution vessel (5) at the other end (EV) of the tubular elements (2). Guiding elements (7) for guiding the second fluid (F2) extend along the flow channel (3) between the outer sides (2A) of adjacent tubular elements (2M, 2N) of the first and second rows (R1, R2) of tubular elements (2), said guiding elements (7) each having a plate part (8), the wall thickness (8W) of which is smaller than the largest cross-sectional dimension of the tubular elements (2) connected thereto. At least one adjustment device (30) is provided for adjusting the relative position of two guiding elements (7) about a pivot axis (31) running substantially in the direction of the longitudinal axes (L) of the tubular elements (2).

IPC 8 full level
F28F 1/22 (2006.01); **F28D 1/053** (2006.01)

CPC (source: AT EP US)
F28D 1/05333 (2013.01 - EP US); **F28F 1/22** (2013.01 - EP US); **F28F 1/32** (2013.01 - US); **F28F 9/167** (2013.01 - AT); **F28F 1/40** (2013.01 - US); **F28F 9/167** (2013.01 - US); **F28F 9/26** (2013.01 - US); **F28F 2210/10** (2013.01 - US)

Citation (search report)
See references of WO 2018064696A1

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 2018064696 A1 20180412; AT 518986 A4 20180315; AT 518986 B1 20180315; CN 109791028 A 20190521; CN 109791028 B 20210511; EP 3523590 A1 20190814; EP 3523590 B1 20220330; US 11112182 B2 20210907; US 2020025450 A1 20200123

DOCDB simple family (application)
AT 2017060252 W 20171006; AT 509112016 A 20161007; CN 201780061195 A 20171006; EP 17784161 A 20171006; US 201716337945 A 20171006