

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEÜBERTRAGER

Title (fr)
ÉCHANGEUR DE CHALEUR

Publication
EP 2771636 A1 20140903 (DE)

Application
EP 12787406 A 20121026

Priority
• DE 102011085479 A 20111028
• EP 2012071322 W 20121026

Abstract (en)
[origin: WO2013060882A1] The invention relates to a heat exchanger comprising a block (2) which has ribs (9) and tubes (8) and which is arranged between a first collecting box (3) in particular for introducing a medium to be cooled and a second collecting box (4) in particular for discharging said medium. Each collecting box (3, 4) is closed off by a base (5, 6) which has eyelets (12) for receiving the tubes (8), and a trough-shaped circulating section (14) for receiving the collecting box (3, 4) extends along the edge of the base (5, 6). The base (5, 6) has an elevated contact region (16) on at least one end face (13) for the tube (8a, 8b) which lies directly opposite the end face (13) in order to allow a stable structure of the heat exchanger with collecting boxes comprising a trough-shaped depression.

IPC 8 full level
F28F 9/02 (2006.01); **F28D 1/053** (2006.01); **F28F 1/12** (2006.01)

CPC (source: EP US)
B21D 53/08 (2013.01 - US); **F28D 1/05358** (2013.01 - US); **F28D 1/05366** (2013.01 - US); **F28D 1/05383** (2013.01 - EP US); **F28F 1/10** (2013.01 - US); **F28F 9/0221** (2013.01 - US); **F28F 9/0224** (2013.01 - EP US); **F28F 9/0226** (2013.01 - US); **F28F 1/126** (2013.01 - EP US); **F28F 2225/04** (2013.01 - EP US)

Citation (search report)
See references of WO 2013060882A1

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)
DE 102011085479 A1 20130502; BR 112014010083 A2 20170613; BR 112014010083 A8 20170620; CN 103890530 A 20140625; CN 103890530 B 20160817; EP 2771636 A1 20140903; EP 2771636 B1 20160106; KR 20140088582 A 20140710; US 2014262187 A1 20140918; US 9810484 B2 20171107; WO 2013060882 A1 20130502

DOCDB simple family (application)
DE 102011085479 A 20111028; BR 112014010083 A 20121026; CN 201280051940 A 20121026; EP 12787406 A 20121026; EP 2012071322 W 20121026; KR 20147014242 A 20121026; US 201214354895 A 20121026