

Title (en)  
FLAT TUBE AND HEAT EXCHANGER HAVING A FLAT TUBE OF SAID TYPE

Title (de)  
FLACHROHR UND WÄRMEÜBERTRAGER MIT EINEM SOLCHEN FLACHROHR

Title (fr)  
TUBE PLAT ET ÉCHANGEUR DE CHALEUR ÉQUIPÉ D'UN TEL TUBE PLAT

Publication  
**EP 2867602 B1 20171115 (DE)**

Application  
**EP 13732913 A 20130628**

Priority  
• DE 102012211350 A 20120629  
• EP 2013063618 W 20130628

Abstract (en)  
[origin: WO2014001498A1] The invention relates to a flat tube (20), in particular for a heat exchanger, composed of an areal material strip with two mutually opposite first and second side walls (21, 22) which are connected to one another by means of third and fourth side walls (23, 24), wherein the third side wall (23) is formed by two sections of the material strip that are laid one against the other in double-layer form, wherein an internal fin (30) is arranged in the interior of the flat tube (20), which fin, at the end sides, bears against the third side wall (23) and against the fourth side wall (24), and which fin, between the third side wall (23) and the fourth side wall (24), is supported alternately against the first side wall (21) and against the second side wall (22).

IPC 8 full level  
**F28D 1/03** (2006.01); **F28F 3/02** (2006.01)

CPC (source: EP KR US)  
**F28D 1/0391** (2013.01 - EP KR US); **F28F 1/12** (2013.01 - US); **F28F 1/42** (2013.01 - KR); **F28F 3/025** (2013.01 - EP US); **F28F 3/025** (2013.01 - KR)

Citation (examination)  
• DE 102005050366 A1 20060427 - DENSO CORP [JP]  
• US 2010051252 A1 20100304 - NINAGAWA TOSHIHIDE [JP], et al

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 102012211350 A1 20140102**; BR 112014031231 A2 20170627; CN 104583703 A 20150429; CN 104583703 B 20170118; DE 112013003181 A5 20150312; EP 2867602 A1 20150506; EP 2867602 B1 20171115; KR 20150037948 A 20150408; US 10267572 B2 20190423; US 2015107811 A1 20150423; WO 2014001498 A1 20140103

DOCDB simple family (application)  
**DE 102012211350 A 20120629**; BR 112014031231 A 20130628; CN 201380033763 A 20130628; DE 112013003181 T 20130628; EP 13732913 A 20130628; EP 2013063618 W 20130628; KR 20157002578 A 20130628; US 201414584356 A 20141229