

Title (en)
HEAT-EXCHANGING FLAT TUBE

Title (de)
FLACHROHRWÄRMETAUSCHER

Title (fr)
TUBE APLATI POUR ÉCHANGEUR DE CHALEUR

Publication
EP 2485006 A4 20131211 (EN)

Application
EP 10820633 A 20100930

Priority
• JP 2009228473 A 20090930
• JP 2009297914 A 20091228
• JP 2010067068 W 20100930

Abstract (en)
[origin: EP2485006A1] To provide a flat tube for heat exchange that can ensure a target pressure-resisting strength and in which thinning is achieved. A flat tube (1) for heat exchange is a flat tube (1) for heat exchange in which plural through holes (3) with circular cross-sections through which refrigerant passes are arranged in one row. If t_1/R is a value in which a thickness t_1 of partition portions (4) partitioning adjacent two of the through holes (3) has been made dimensionless by a radius R of the through holes (3) and t_2/R is a value in which an outer peripheral thickness t_2 that is a thickness from a flat surface of an outer periphery of the flat tube (1) to the through holes (3) has been made dimensionless by the radius R , in a case where the internal pressure of the through holes (3) is 10.0 to 90.0 MPa, the relationship of $0.28 < (t_2/R)/(t_1/R) < 0.42$ holds true.

IPC 8 full level
F28F 1/02 (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP US)
F28F 1/022 (2013.01 - EP US)

Citation (search report)
• [X] WO 2006105823 A1 20061012 - BEHR GMBH & CO KG [DE], et al
• See references of WO 2011040518A1

Cited by
EP3009779A1

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2485006 A1 20120808; EP 2485006 A4 20131211; CN 102510992 A 20120620; JP 2011153814 A 20110811; US 2012181007 A1 20120719; WO 2011040518 A1 20110407

DOCDB simple family (application)
EP 10820633 A 20100930; CN 201080041644 A 20100930; JP 2010067068 W 20100930; JP 2010218897 A 20100929; US 201013498298 A 20100930