

Title (en)
GROOVED TUBE FOR HEAT EXCHANGER

Title (de)
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Title (fr)
TUBE RAINURE POUR ECHANGEUR DE CHALEUR

Publication
EP 2320188 A4 20140312 (EN)

Application
EP 09804685 A 20090728

Priority
• JP 2009003554 W 20090728
• JP 2008200582 A 20080804

Abstract (en)
[origin: EP2320188A1] A heat exchanger grooved tube is made of a copper alloy having a 0.2% proof stress of greater than or equal to 40 N/mm², and the relationship among the fin width b, the number N of fins (3), and the root thickness t is represented by $8 < bN/t < 20$.

IPC 8 full level
F28F 1/40 (2006.01)

CPC (source: EP KR US)
B21C 1/22 (2013.01 - KR); **B21D 17/00** (2013.01 - KR); **F28F 1/10** (2013.01 - KR); **F28F 1/40** (2013.01 - EP KR US)

Citation (search report)
• [Y] EP 0499257 A2 19920819 - FURUKAWA ELECTRIC CO LTD [JP]
• [Y] DE 102006013384 A1 20070927 - WIELAND WERKE AG [DE]
• [A] JP 2005134053 A 20050526 - SUMITOMO LIGHT METAL IND
• [A] JP H0472026 A 19920306 - TOSHIBA CORP
• [A] US 2003182979 A1 20031002 - HINAGO NOBUAKI [JP], et al
• See references of WO 2010016198A1

Designated contracting state (EPC)
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 2320188 A1 20110511; EP 2320188 A4 20140312; AU 2009278653 A1 20100211; AU 2009278653 B2 20130207;
CN 102112839 A 20110629; CN 102112839 B 20130605; JP 2010038417 A 20100218; JP 5446163 B2 20140319; KR 20110031241 A 20110324;
US 2011132589 A1 20110609; WO 2010016198 A1 20100211

DOCDB simple family (application)
EP 09804685 A 20090728; AU 2009278653 A 20090728; CN 200980130159 A 20090728; JP 2008200582 A 20080804;
JP 2009003554 W 20090728; KR 20117003585 A 20090728; US 200913057304 A 20090728