

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)

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