

Title (en)

DRAWLESS PRESS ALUMINIUM ALLOY FIN MATERIAL FOR HEAT EXCHANGER, AND MANUFACTURING METHOD FOR SAME

Title (de)

ZUGLOS GEPRÄSSTER ALUMINIUMLEGIERUNGS-LAMELLENWERKSTOFF FÜR WÄRMETAUSCHER UND HERSTELLUNGSVERFAHREN
DAFÜR

Title (fr)

MATÉRIAUX D'AILLETTE POUR ÉCHANGEUR DE CHALEUR EN ALLIAGE D'ALUMINIUM PRESSÉ NON ÉTIRÉ, ET SON PROCÉDÉ DE
FABRICATION

Publication

EP 2692881 A4 20141105 (EN)

Application

EP 12764109 A 20120306

Priority

- JP 2011080853 A 20110331
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- JP 2012055659 W 20120306

Abstract (en)

[origin: EP2692881A1] Aluminum alloy fin material, which is drawless-press fin material, is for a heat exchanger, and exhibits excellent collar-cracking resistance which can suppress the occurrence of collar cracking during a forming process, is formed from aluminum alloy material which contains 0.010 - 0.4 mass% of Fe, the remainder of which is formed from Al and unavoidable impurities, and in which the Al purity is at least 99.30 mass%. The drawless-press aluminum alloy fin material for a heat exchanger is characterized by having a thickness of less than 0.115 mm, having a subgrain average particle diameter of 2.5 µm or less and proof stress of at least 130 N/mm². The material is further characterized in that intermetallic compounds having a maximum length which exceeds 3 µm are not more than 2,000/mm².

IPC 8 full level

C22C 21/00 (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP)

C22C 21/00 (2013.01); **C22F 1/04** (2013.01); **F28F 21/084** (2013.01); **F28F 2215/00** (2013.01)

Citation (search report)

- [E] EP 2612938 A1 20130710 - KOBE STEEL LTD [JP]
- See references of WO 2012132784A1

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