

Title (en)

PROCESS FOR PRODUCING AN ALUMINIUM ALLOY BRAZING SHEET, ALUMINIUM ALLOY BRAZING SHEET

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ALUMINIUMLEGIERUNGSLÖTBLECHS UND ALUMINIUMLEGIERUNGSLÖTBLECH

Title (fr)

PROCEDE DE PRODUCTION D'UNE FEUILLE DE BRASAGE D'ALLIAGE D'ALUMINIUM, ET FEUILLE DE BRASAGE D'ALLIAGE D'ALUMINIUM OBTENUE PAR CE PROCEDE

Publication

EP 1753885 A1 20070221 (EN)

Application

EP 05746552 A 20050525

Priority

- EP 2005005751 W 20050525
- EP 04076545 A 20040526
- EP 04076785 A 20040618
- EP 04077623 A 20040923
- EP 05746552 A 20050525

Abstract (en)

[origin: WO2005118899A1] The invention relates to a process for producing an Al-Mn alloy sheet with improved liquid film migration resistance when used as core alloy in brazing sheet, comprising the steps of: casting an ingot having a composition comprising (in weight percent): 0.5 < Mn <= 1.7 0.06 < Cu <= 1.5 Si <= 1.3 Mg <= 0.25 Ti < 0.2 Zn <= 2.0 Fe <= 0.5 at least one element of the group of elements consisting of 0.05 < Zr <= 0.25 and 0.05 < Cr <= 0.25 other elements < 0.05 each and total < 0.20, balance Al. homogenisation and preheat hot rolling . cold rolling (including intermediate anneals whenever required), and wherein the homogenisation temperature is at least 450 °C for a duration of at least 1 hour followed by an air cooling at a rate of at least 20 °C/h and wherein the pre-heat temperature is at least 400 °C for at least 0.5 hour.

IPC 8 full level

C22C 21/00 (2006.01); **B32B 15/01** (2006.01); **C22C 21/12** (2006.01); **C22C 21/14** (2006.01); **C22C 21/16** (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP KR)

B21B 3/00 (2013.01 - KR); **C22C 21/00** (2013.01 - EP); **C22C 21/10** (2013.01 - KR); **C22C 21/12** (2013.01 - EP); **C22C 21/14** (2013.01 - EP); **C22C 21/16** (2013.01 - EP); **C22F 1/04** (2013.01 - EP); **C22F 1/053** (2013.01 - KR)

Citation (search report)

See references of WO 2005118899A1

Cited by

WO2015021383A1; WO2015021244A1; US9719156B2; WO2019245570A1; US11685973B2; US11933553B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005118899 A1 20051215; CA 2565978 A1 20051215; CA 2565978 C 20130326; CN 1973056 A 20070530; CN 1973056 B 20101124; EP 1753885 A1 20070221; EP 1753885 B1 20161228; EP 1753885 B2 20220824; HU E032303 T2 20170928; JP 2008500453 A 20080110; JP 5326123 B2 20131030; KR 101216246 B1 20121228; KR 20070058383 A 20070608; MX PA06013571 A 20070315

DOCDB simple family (application)

EP 2005005751 W 20050525; CA 2565978 A 20050525; CN 200580016756 A 20050525; EP 05746552 A 20050525; HU E05746552 A 20050525; JP 2007513822 A 20050525; KR 20067027051 A 20061222; MX PA06013571 A 20050525