

Title (en)

ALUMINUM ALLOY SHEET HAVING EXCELLENT RIDGING RESISTANCE AND HEM BENDABILITY AND PRODUCTION METHOD FOR SAME

Title (de)

ALUMINIUMLEGIERUNGSBLECH MIT HERVORRAGENDER RILLENBILDUNGSBESTÄNDIGKEIT UND FALZBIEGBARKEIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

FEUILLE EN ALLIAGE D'ALUMINIUM PRÉSENTANT UNE EXCELLENTE RÉSISTANCE À LA FORMATION DE STRIES ET UNE EXCELLENTE APTITUDE AU PLIAGE DE DU BORD RABATTU ET PROCÉDÉ POUR SA PRODUCTION

Publication

**EP 3480326 A4 20191120 (EN)**

Application

**EP 17820066 A 20170623**

Priority

- JP 2016128393 A 20160629
- JP 2017023261 W 20170623

Abstract (en)

[origin: EP3480326A1] The present disclosure relates to an aluminum alloy sheet having excellent ridging resistance and excellent hem bendability. The aluminum alloy sheet is an aluminum alloy rolled material for molding. The aluminum alloy rolled material includes an aluminum alloy that includes predetermined amounts of Mg, Si, and Mn and satisfies a condition of  $0.005 \leq \text{Mn} + \text{Cr} \leq 0.080$  mass%. In the aluminum alloy sheet, the position of a middle ( $t/2$ ) of a sheet thickness is regarded as a center, the crystal particle diameter  $d_1$  of an L-LT plane in a sheet thickness in a range of  $\pm(t/8)$  from the center is 30 to 80  $\mu\text{m}$ , the crystal particle diameter  $d_2$  of an L-ST plane in the entire sheet thickness is 60  $\mu\text{m}$  or less, and the cube orientation area rate C of a crystal orientation on a sheet surface is 10% or more.

IPC 8 full level

**C22C 21/02** (2006.01); **C22C 21/06** (2006.01); **C22F 1/00** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP US)

**C22C 21/02** (2013.01 - EP US); **C22C 21/08** (2013.01 - EP); **C22C 21/12** (2013.01 - EP); **C22F 1/043** (2013.01 - US); **C22F 1/05** (2013.01 - EP US); **C22F 1/057** (2013.01 - EP)

Citation (search report)

- [X] US 2011017370 A1 20110127 - TAKAKI YASUO [JP], et al
- See references of WO 2018003709A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 3480326 A1 20190508**; **EP 3480326 A4 20191120**; CN 109415781 A 20190301; JP WO2018003709 A1 20190808; US 2019330716 A1 20191031; WO 2018003709 A1 20180104

DOCDB simple family (application)

**EP 17820066 A 20170623**; CN 201780040523 A 20170623; JP 2017023261 W 20170623; JP 2018525140 A 20170623; US 201716309234 A 20170623