Title (en)

AGE-HARDENABLE ALUMINIUM ALLOY AND METHOD FOR IMPROVING THE ABILITY OF A SEMI-FINISHED OR FINISHED PRODUCT TO AGE ARTIFICIALLY

Title (de)

AUSHÄRTBARE ALUMINIUMLEGIERUNG UND VERFAHREN ZUR VERBESSERUNG DER WARMAUSHÄRTUNGSFÄHIGKEIT EINES HALBZEUGS ODER ENDPRODUKTS

Title (fr)

ALLIAGE D'ALUMINIUM DURCISSABLE ET PROCÉDÉ PERMETTANT D'AMÉLIORER LA CAPACITÉ DE DURCISSEMENT THERMIQUE D'UN PRODUIT SEMI-FINI OU D'UN PRODUIT FINI

Publication

EP 2817429 A1 20141231 (DE)

Application

EP 13708374 A 20130222

Priority

- EP 12156623 A 20120223
- EP 2013053643 W 20130222
- EP 13708374 A 20130222

Abstract (en)

[origin: EP2631317A1] A heat-treatable aluminum alloy chosen from aluminum-magnesium-silicon alloy, aluminum-zinc alloy or aluminum-zinc-magnesium alloy in the form of solution is subjected to annealing, obtained annealed alloy is quenched and subsequently precipitates are formed by hardening. The resultant aluminum alloy is subjected to artificial aging, porosity of the aged aluminum alloy is increased and resultant aluminum alloy is further subjected to aging process. Thus, the method for improving heat-curing ability of semifinished/finished product is enabled. Independent claims are included for the following: (1) usage of aluminum alloy; (2) aluminum alloy; and (3) semifinished/finished product.

IPC 8 full level

C22F 1/04 (2006.01); **C22F 1/047** (2006.01); **C22F 1/05** (2006.01); **C22F 1/053** (2006.01)

CPC (source: EP US)

C22C 21/04 (2013.01 - EP US); **C22C 21/08** (2013.01 - EP US); **C22C 21/10** (2013.01 - EP US); **C22F 1/04** (2013.01 - EP US); **C22F 1/047** (2013.01 - EP US); **C22F 1/05** (2013.01 - EP US); **C22F 1/053** (2013.01 - EP US); C21D 2211/004 (2013.01 - EP US)

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2631317 A1 20130828; CN 104254634 A 20141231; CN 104254634 B 20170517; EP 2817429 A1 20141231; US 10214802 B2 20190226; US 10774409 B2 20200915; US 2015013857 A1 20150115; US 2019136355 A1 20190509; WO 2013124472 A1 20130829

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EP 12156623 A 20120223; CN 201380010922 A 20130222; EP 13708374 A 20130222; EP 2013053643 W 20130222; US 201314380540 A 20130222; US 201916242204 A 20190108