

Title (en)

HIGH STRENGTH AND THERMALLY STABLE 5000-SERIES ALUMINUM ALLOYS

Title (de)

HOCHFESTE UND THERMISCH STABILE ALUMINIUMLEGIERUNGEN DER SERIE 2000

Title (fr)

ALLIAGES D'ALUMINIUM DE SÉRIE 5000 À HAUTE RÉSISTANCE ET À STABILITÉ THERMIQUE

Publication

EP 4146837 A1 20230315 (EN)

Application

EP 21727734 A 20210504

Priority

- US 202063019564 P 20200504
- US 2021030676 W 20210504

Abstract (en)

[origin: WO2021226103A1] The present disclosure relates to a new family of 5000-series alloys that have high strength and can resist strength softening during stabilization and/or annealing treatment, after cold rolling, working or strain hardening, which are highly advantageous for food and beverage and automotive industries.

IPC 8 full level

C22C 21/06 (2006.01); **C22C 21/08** (2006.01); **C22F 1/00** (2006.01); **C22F 1/047** (2006.01)

CPC (source: EP US)

C21D 8/0226 (2013.01 - US); **C21D 8/0236** (2013.01 - US); **C21D 8/0263** (2013.01 - US); **C22C 21/06** (2013.01 - EP); **C22C 21/08** (2013.01 - EP US); **C22F 1/002** (2013.01 - EP); **C22F 1/047** (2013.01 - EP US)

Citation (search report)

See references of WO 2021226103A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021226103 A1 20211111; EP 4146837 A1 20230315; JP 2023524394 A 20230612; US 2023193430 A1 20230622

DOCDB simple family (application)

US 2021030676 W 20210504; EP 21727734 A 20210504; JP 2022563126 A 20210504; US 202217979580 A 20221102