

Title (en)
HIGH-STRENGTH 5XXX ALUMINUM ALLOY VARIANTS AND METHODS FOR PREPARING THE SAME

Title (de)
HOCHFESTE 5XXX-ALUMINIUMLEGIERUNGSVARIANTEN UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
VARIANTES D'ALLIAGE D'ALUMINIUM 5XXX À HAUTE RÉSISTANCE ET LEURS PROCÉDÉS DE PRÉPARATION

Publication
EP 4305219 A1 20240117 (EN)

Application
EP 22703536 A 20220119

Priority
• US 202163160198 P 20210312
• US 2022070250 W 20220119

Abstract (en)
[origin: WO2022192812A1] Described herein are novel 5xxx series aluminum alloys which exhibit high strength and formability. The aluminum alloys described herein have higher amounts of Mg content than traditional 5xxx series aluminum alloys and exhibit high strength and formability. The aluminum alloys described herein are produced according to a method including continuous casting.

IPC 8 full level
C22C 21/06 (2006.01); **C22C 21/08** (2006.01); **C22F 1/047** (2006.01)

CPC (source: EP KR)
C22C 21/003 (2013.01 - KR); **C22C 21/06** (2013.01 - EP); **C22C 21/08** (2013.01 - EP); **C22F 1/04** (2013.01 - KR); **C22F 1/047** (2013.01 - EP)

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 2022192812 A1 20220915; CA 3207291 A1 20220915; CN 116940699 A 20231024; EP 4305219 A1 20240117; JP 2024509070 A 20240229; KR 20230118949 A 20230814; MX 2023010500 A 20230918

DOCDB simple family (application)
US 2022070250 W 20220119; CA 3207291 A 20220119; CN 202280019604 A 20220119; EP 22703536 A 20220119; JP 2023549849 A 20220119; KR 20237023710 A 20220119; MX 2023010500 A 20220119