

Title (en)

IMPROVED THICK WROUGHT 7XXX ALUMINUM ALLOYS, AND METHODS FOR MAKING THE SAME

Title (de)

7XXX-ALUMINIUM-KNETLEGIERUNG MIT VERBESSERTER DICKE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

ALLIAGES D'ALUMINIUM 7XXX CORROYÉS ÉPAIS PERFECTIONNÉS ET LEURS PROCÉDÉS DE PRODUCTION

Publication

EP 3987072 A4 20230719 (EN)

Application

EP 20831122 A 20200623

Priority

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- US 2020039196 W 20200623

Abstract (en)

[origin: WO2020263864A1] Disclosed are improved thick wrought 7xxx aluminum alloy products, and methods for producing the same. The new 7xxx aluminum alloy products may realize an improved combination of properties, such as an improved combination of two or more of environmentally assisted crack resistance, strength, elongation, and fracture toughness, among other properties. The new 7xxx aluminum alloy products may include 5.5-6.5 wt. % Zn, 1.3-1.7 wt. % Mg, and 1.7-2.3 wt. % Cu.

IPC 8 full level

C22C 21/10 (2006.01); **C22F 1/053** (2006.01)

CPC (source: CN EP US)

C22C 21/10 (2013.01 - CN EP US); **C22F 1/002** (2013.01 - CN US); **C22F 1/053** (2013.01 - CN EP US)

Citation (search report)

- [X1] US 2017088920 A1 20170330 - BOSELLI JULIEN [US], et al
- [A] JP 2011058047 A 20110324 - FURUKAWA SKY ALUMINUM CORP
- [A] WO 2004090183 A1 20041021 - CORUS ALUMINIUM WALZPROD GMBH [DE], et al
- [A] EP 2322677 A1 20110518 - ALCOA INC [US]
- See references of WO 2020263864A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 2020039196 W 20200623; BR 112021026189 A 20200623; CA 3143806 A 20200623; CN 202080044888 A 20200623; EP 20831122 A 20200623; US 202117550994 A 20211214