Title (en)

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

Title (de)

VERBESSERTE DICKE KNETLEGIERUNGEN AUS 7XXX-ALUMINIUM UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

ALLIAGES D'ALUMINIUM DE SÉRIE 7XXX CORROYÉS ÉPAIS AMÉLIORÉS ET PROCÉDÉS DE PRODUCTION CORRESPONDANTS

Publication

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Application

EP 22158417 A 20160509

Priority

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- EP 16793338 A 20160509
- US 2016031525 W 20160509

Abstract (en)

Improved wrought 7xxx aluminum alloy products are disclosed. The improved wrought 7xxx aluminum alloy products generally include 6.0 - 10.0 wt. % Zn, 1.4 - 2.2 wt. % Mg, 1.3 - 2.5 wt. % Cu and 0.080 - 0.250 wt. % Cr. The improved wrought 7xxx aluminum alloy products generally have a thickness of from 3.0 inches to 12 inches, and realize an improved combination of properties, such an improved combination of crack deviation resistance, strength, fracture toughness and corrosion resistance.

IPC 8 full level

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CPC (source: EP KR RU US)

B22D 7/005 (2013.01 - EP KR US); **C22C 21/10** (2013.01 - EP KR RU US); **C22F 1/053** (2013.01 - EP US); **C22F 1/10** (2013.01 - KR)

Citation (applicant)

- US 6972110 B2 20051206 - CHAKRABARTI DHRUBA J [US], et al
- KR 167933381 A
- "International Alloy Designations and Chemical Composition Limits for Wrought Aluminum and Wrought Aluminum Alloys", THE ALUMINUM ASSOCIATION, 2009, pages 12

Citation (search report)

- [XP] CN 103233148 B 20160120
- [X] US 2007029016 A1 20070208 - GHEORGHE IULIAN [US]
- [X] US 2013312877 A1 20131128 - CHAKRABARTI DHRUBA J [US], et al

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