

Title (en)

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

Title (de)

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

Title (fr)

ALLIAGES D'ALUMINIUM 7XXX CORROYÉS AMÉLIORÉS, ET PROCÉDÉS DE PRODUCTION ASSOCIÉS

Publication

EP 3368702 B1 20230816 (EN)

Application

EP 16860785 A 20161027

Priority

- US 201562248165 P 20151029
- US 2016059120 W 20161027

Abstract (en)

[origin: WO2017075217A1] New wrought 7xxx aluminum alloys are disclosed. The new wrought 7xxx aluminum alloys generally include from 3.75 to 8.0 wt. % Zn, from 1.25 to 3.0 wt. % Mg, where the wt. % Zn exceeds the wt. % Mg, from 0.35 to 1.35 wt. % Cu, from 0.04 to 0.20 wt. % V, from 0.06 to 0.20 wt. % Zr, where $V+Zr \leq 0.23$ wt. %, from 0.01 to 0.25 wt. % Ti, up to 0.50 wt. % Mn, up to 0.40 wt. % Cr, up to 0.35 wt. % Fe, and up to 0.25 wt. % Si, the balance being aluminum and impurities, wherein the wrought 7xxx aluminum alloy include not greater than 0.10 wt. % each of any one impurity, and wherein the wrought 7xxx aluminum alloy includes not greater than 0.35 wt. % in total of the impurities.

IPC 8 full level

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CPC (source: EP US)

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