

Title (en)
IMPROVED 7XXX ALUMINUM ALLOYS

Title (de)
VERBESSERTE 7XXX-ALUMINIUMLEGIERUNGEN

Title (fr)
ALLIAGES D'ALUMINIUM 7XXX AMÉLIORÉS

Publication
EP 3880857 A2 20210922 (EN)

Application
EP 19885961 A 20191113

Priority
• US 201862767441 P 20181114
• US 2019061305 W 20191113

Abstract (en)
[origin: WO2020102441A2] New 7xxx aluminum alloys are disclosed. The new 7xxx aluminum alloys generally include from 0.05 to 1.0 wt. % Ag. In one approach, a new 7xxx aluminum alloy includes from 0.05 to 1.0 wt. % Ag, from 5.5 to 9.0 wt. % Zn, from 1.2 to 2.6 wt. % Cu, from 1.3 to 2.5 wt. % Mg, up to 0.60 wt. % Mn, up to 1.0 wt. % of at least one grain structure control material, wherein the at least one grain structure control material is selected from the group consisting of Zr, Cr, V, Hf, other rare earth elements, and combinations thereof, up to 0.30 wt. % Fe, up to 0.30 wt. % Si, up to 0.15 wt. % Ti, not greater than 0.08 wt. % Sc, and not greater than 0.05 wt. % Li, the balance being aluminum, optional incidental elements and impurities.

IPC 8 full level
C22C 21/10 (2006.01); **C22F 1/053** (2006.01)

CPC (source: EP US)
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