

Title (en)
6XXX ALUMINUM ALLOYS

Title (de)
6XXX-ALUMINIUMLEGIERUNGEN

Title (fr)
ALLIAGES D'ALUMINIUM 6XXX

Publication
EP 3891315 A1 20211013 (EN)

Application
EP 19892594 A 20191203

Priority
• US 201862775746 P 20181205
• US 2019064148 W 20191203

Abstract (en)
[origin: WO2020117748A1] New 6xxx aluminum alloys having an improved combination of properties are disclosed. The new 6xxx aluminum alloy generally include 0.65 - 0.85 wt. % Si, 0.40 - 0.59 wt. % Mg, wherein (wt. % Mg) / (wt. % Si) is from 0.47 to 0.90, 0.05 - 0.35 wt. % Fe, 0.04 - 0.13 wt. % Mn, 0 - 0.20 wt. % Cu, 0 - 0.15 wt. % Cr, 0 - 0.15 wt. % Zr, 0 - 0.15 wt. % Ti, 0 - 0.10 wt. % Zn, 0 - 0.05 wt. % V, the balance being aluminum and impurities.

IPC 8 full level
C22C 21/02 (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP KR US)
C21D 8/0226 (2013.01 - EP US); **C21D 8/0236** (2013.01 - EP US); **C21D 8/0273** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C22C 21/02** (2013.01 - EP KR US); **C22C 21/04** (2013.01 - EP); **C22F 1/043** (2013.01 - EP KR)

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

DOCDB simple family (publication)
WO 2020117748 A1 20200611; CA 3121042 A1 20200611; CN 113166857 A 20210723; CN 113166857 B 20221227; EP 3891315 A1 20211013; EP 3891315 A4 20221026; JP 2022513692 A 20220209; KR 20210088670 A 20210714; MX 2021006476 A 20210716; US 2021292875 A1 20210923

DOCDB simple family (application)
US 2019064148 W 20191203; CA 3121042 A 20191203; CN 201980080272 A 20191203; EP 19892594 A 20191203; JP 2021531352 A 20191203; KR 20217017549 A 20191203; MX 2021006476 A 20191203; US 202117336859 A 20210602