

Title (en)

6XXX-SERIES ALUMINIUM ALLOY FORGING STOCK MATERIAL AND METHOD OF MANUFACTURING THEREOF

Title (de)

6XXX-SERIEN-ALUMINIUMLEGIERUNGSSCHMIEDEROHMATERIAL UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

MATÉRIAU DE STOCKAGE FORGÉ EN ALLIAGE D'ALUMINIUM DE LA SÉRIE 6XXX ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 3464659 B1 20200311 (EN)**

Application

**EP 17725993 A 20170531**

Priority

- EP 16172448 A 20160601
- EP 2017063109 W 20170531

Abstract (en)

[origin: WO2017207603A1] The invention relates to hot-rolled semi-finished 6xxx-series aluminium alloy forging stock material having a thickness in the range of 2 mm to 30 mm, and having a composition comprising of, in wt.%, Si 0.65-1.4%, Mg 0.60-0.95%, Mn 0.40-0.80%, Cu 0.04-0.28%, Fe up to 0.5%, Cr up to 0.18%, Zr up to 0.20%, Ti up to 0.15%, Zn up to 0.25%, impurities each <0.05%, total <0.2%, balance aluminium, and wherein it has a substantially unrecrystallized microstructure. The invention relates also to a method of manufacturing such 6xxx-series hot-rolled aluminium alloy forging stock material. Furthermore, the invention relates to a method of forging a shaped product from the 6xxx-series aluminium alloy forging stock material.

IPC 8 full level

**C22C 21/02** (2006.01); **C22C 21/08** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP US)

**C22C 21/02** (2013.01 - EP US); **C22C 21/08** (2013.01 - EP US); **C22F 1/05** (2013.01 - EP US)

Citation (opposition)

Opponent : C-TEC CONSTELLIUM TECHNOLOGY CENTER

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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

DOCDB simple family (publication)

**WO 2017207603 A1 20171207**; CN 109415780 A 20190301; CN 109415780 B 20210223; EP 3464659 A1 20190410; EP 3464659 B1 20200311; EP 3464659 B2 20230712; US 2019136348 A1 20190509

DOCDB simple family (application)

**EP 2017063109 W 20170531**; CN 201780032491 A 20170531; EP 17725993 A 20170531; US 201716306078 A 20170531