

Title (en)

METHOD FOR PRODUCING A HIGH STRENGTH, HIGH TOUGHNESS Al-Zn ALLOY PRODUCT

Title (de)

HERSTELLUNGSVERFAHREN FÜR EIN HOCHFESTES, HOCHZÄHES Al-ZINNLEGIERUNGSPRODUKT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ALLIAGE DE Al-ZN À HAUTE RÉSISTANCE ET DE GRANDE DURETÉ

Publication

**EP 1831415 B2 20141015 (EN)**

Application

**EP 05802352 A 20051004**

Priority

- EP 2005010809 W 20051004
- EP 04077721 A 20041005
- EP 05802352 A 20051004

Abstract (en)

[origin: WO2006037648A1] The invention relates to a Al-Zn alloy wrought product, and to a method of manufacturing such a product, with an improved combination of high toughness and high strength by maintaining good corrosion resistance, said alloy including (in weight percent): Zn 6.0--11.0, Cu 1.4-2.2, Mg 1.4-2.4, Zr 0.05-0.15, Ti < 0.05, Hf and/or V < 0.25, and optionally Sc and/or Ce 0.05-0.25, and Mn 0.05-0.12, other elements each less than 0.05 and less than 0.50 in total, balance aluminium, wherein such alloy has an essentially fully unrecrystallized microstructure at least at the position T/10 of the finished product.

IPC 8 full level

**C22C 21/10** (2006.01); **C22F 1/053** (2006.01)

CPC (source: EP)

**C22C 21/10** (2013.01); **C22F 1/053** (2013.01)

Citation (opposition)

Opponent :

"International Alloy Designations and Chemical Composition Limits for Wrought Aluminum and Wrought Aluminum Alloys", 1998, THE ALUMINUM ASSOCIATION, WASHINGTON, pages: 7 - 9

Cited by

WO2015131992A1

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**FR 2876118 A1 20060407**; **FR 2876118 B1 20100820**; AT E426050 T1 20090415; BR PI0517538 A 20081014; BR PI0517538 B1 20150616; CA 2592132 A1 20060413; CA 2592132 C 20140805; CN 101068943 A 20071107; CN 101068943 B 20111123; DE 102005045341 A1 20060720; DE 602005013429 D1 20090430; EP 1831415 A1 20070912; EP 1831415 B1 20090318; EP 1831415 B2 20141015; JP 2008516079 A 20080515; JP 5068654 B2 20121107; RU 2007116979 A 20081120; RU 2404276 C2 20101120; WO 2006037648 A1 20060413

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