

Title (en)

METHOD OF FABRICATION OF AN ALUMINIUM ALLOY ARTICLE BY HOT- AND COLD-FORMING

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES AUS ALUMINIUMLEGIERUNG BAUTEILS DURCH WARM- UND KALTUMFORMUNG

Title (fr)

PROCEDE DE FABRICATION D'UN ARTICLE EN ALLIAGE D'ALUMINIUM DEFORMABLE A CHAUD ET A FROID

Publication

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Application

EP 02787956 A 20021218

Priority

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- EP 0214452 W 20021218

Abstract (en)

[origin: WO03054243A1] The invention relates to a component or semi-finished piece made from a hot-form aluminium alloy of the following composition in wt. %: silicon 0.9 - 1.3, magnesium 0.7 - 1.2, manganese 0.5 - 1.0, copper less than 0.1, iron less than 0.5, chromium less than 0.25, titanium less than 0.1, zinc less than 0.2, zirconium and/or hafnium 0.05 - 0.2 and further unavoidable impurities, whereby the total amount of chromium and manganese and zirconium and/or hafnium is at least 0.4 by weight. The component is characterised in that aluminium/silicon mixed crystals are present in addition to magnesium silicide precipitates.

IPC 1-7

C22C 21/02; **C22C 21/04**; **C22F 1/043**; **C22F 1/05**

IPC 8 full level

C22C 21/02 (2006.01); **C22C 21/04** (2006.01); **C22C 21/08** (2006.01); **C22F 1/043** (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 1/043** (2013.01 - EP US); **C22F 1/05** (2013.01 - EP US)

Cited by

CN109415780A; WO2017207603A1; EP3214191A1; EP2644725A2

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