

Title (en)

Stress relieving of an age hardenable aluminium alloy product

Title (de)

Spannungsfreimachen eines Werkstücks aus aushärtbaren Aluminium-Legierung

Title (fr)

Détensionnement d'une pièce en alliage d'aluminium durcissable

Publication

EP 0848073 B1 20020508 (EN)

Application

EP 97203934 A 19971215

Priority

- EP 97203934 A 19971215
- EP 96203563 A 19961216

Abstract (en)

[origin: EP0848073A1] Stress relieving of an age hardenable aluminium alloy product after solution heat treatment and quenching, is carried out by a permanent cold plastic deformation applied by the steps of:- (a) applying a stress-relieving cold mechanical stretch to said product, and (b) applying a stress-relieving cold compression to said product. This combined treatment gives improved strength and toughness and at least comparable distortion after machining.

IPC 1-7

C22F 1/04; C22F 1/053; C22F 1/043

IPC 8 full level

C22F 1/04 (2006.01); **C22F 1/043** (2006.01); **C22F 1/053** (2006.01); C21D 1/30 (2006.01)

CPC (source: EP)

C22F 1/04 (2013.01); **C22F 1/043** (2013.01); **C22F 1/053** (2013.01); C21D 1/30 (2013.01)

Cited by

CN111455295A; JPWO2015002177A1; CN102528397A; FR2879217A1; DE19956895C1; CN111218629A; WO2006064113A1; WO0210482A3; WO2015002177A1; EP1838891B1; EP1059363B2

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