

Title (en)

Cold age hardenable Al-alloy and process of the manufacture of a cast part

Title (de)

Kaltaushärtende Aluminiumgusslegierung und Verfahren zur Herstellung eines Aluminiumgussteils

Title (fr)

Alliage d'aluminium à vieillissement à froid et procédé de fabrication d'une pièce coulée

Publication

EP 1645647 B1 20071205 (DE)

Application

EP 05019300 A 20050906

Priority

DE 102004049074 A 20041008

Abstract (en)

[origin: EP1645647A1] Cold hardening Al alloy based on primary metal/foundry Al of purity 99.9% or melted (sic) to give a primary alloy of higher purity, higher tensile strength and extension limit with an elongation greater than 1% contains (wt.%):Si (6-11), Cu (2.0-4.0), Mn (0.65-1.0), Zn (0.5-3.5), Sr (0.01-0.03), Mn 0.55 maximum, and Fe and Ti each 0.2 maximum. An independent claim is included for a method of preparing an Al casting part from the above composition.

IPC 8 full level

C22C 21/04 (2006.01); **C22F 1/04** (2006.01); **C22F 1/043** (2006.01)

IPC 8 main group level

C21D (2006.01)

CPC (source: EP)

C22C 21/02 (2013.01); **C22C 21/04** (2013.01); **C22F 1/04** (2013.01); **C22F 1/043** (2013.01)

Cited by

US9446447B2; EP4079880A4; CN108866460A; CN117646138A; US8574382B2; US11471984B2; WO2011098213A3; US10041161B2

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DOCDB simple family (publication)

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