

Title (en)

Process for producing an aluminium alloy pressure die cast component

Title (de)

Verfahren zur Herstellung eines Bauteiles aus einer Aluminiumlegierung durch Druckgiessen

Title (fr)

Procédé pour la fabrication d'un pièce coulée sous pression en alliage d'aluminium

Publication

EP 0933441 B1 20021016 (DE)

Application

EP 98810062 A 19980129

Priority

EP 98810062 A 19980129

Abstract (en)

[origin: EP0933441A1] A die cast component of precipitation hardenable aluminum-magnesium-silicon alloy is subjected to a heterogenization anneal to increase its ductility. In the production of a component of Mg₂Si precipitation hardenable aluminum alloy with a Si or Mg₂Si eutectic by die casting, the die cast component is subjected to a heterogenization anneal at 320-410 degrees C for 320-10 min. Preferred Features: The aluminum alloy contains 2.0-11.0 wt.% Si and 0.10-5.5 wt.% Mg, with optional additions of 0.1-0.5 wt.% Fe and 0.2-1.2 wt.% Mn.

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C22F 1/043; **C22F 1/05**

IPC 8 full level

C22F 1/043 (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP)

C22F 1/043 (2013.01); **C22F 1/05** (2013.01)

Citation (examination)

GB 613413 A 19481129 - CLAY PATRICK BEDFORD

Cited by

CN110387489A; CN112981190A; DE19916037C1; DE102008056511A1; DE102008056511B4; GB2522716A; GB2522716B; US11807918B2

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