

Title (en)

Use of an aluminium alloy for pressure die casting

Title (de)

Verwendung einer Aluminiumlegierung zum Druckgiessen

Title (fr)

Utilisation d'un alliage d'aluminium pour moulage sous pression

Publication

EP 0853133 B1 20010523 (DE)

Application

EP 97119976 A 19951113

Priority

- CH 341894 A 19941115
- EP 95937067 A 19951113

Abstract (en)

[origin: WO9615281A1] A cast aluminium alloy contains 3.0 to 6.0 % by weight magnesium, 1.4 to 3.5 % by weight silicon, 0.5 to 2.0 % by weight manganese, maximum 0.15 % by weight iron, maximum 0.2 % by weight titanium, the rest being aluminium and other residual impurities that make up each 0.02 % by weight or all together maximum 0.2 % by weight. This cast aluminium alloy is particularly suitable for die casting, thixotropic casting or thixotropic forging. It may in particular be used for die casting components whose mechanical properties are subject to stringent requirements, since these properties are already present in the cast state and a subsequent thermal treatment may thus be dispensed with.

IPC 1-7

C22C 21/08; B22D 17/00

IPC 8 full level

C22C 1/00 (2006.01); **C22C 21/08** (2006.01)

CPC (source: EP)

C22C 1/12 (2023.01); **C22C 21/08** (2013.01)

Cited by

WO2017182101A1; EP3159422A1; EP1972697A1; DE10310453A1; CN108034871A; DE10352932A1; DE10352932B4; US2015152526A1; CN104694799A; WO2004079029A1; US11421305B2; US10669615B2

Designated contracting state (EPC)

AT DE ES FR GB IT SE

DOCDB simple family (publication)

WO 9615281 A1 19960523; AT E177158 T1 19990315; AT E201457 T1 20010615; AU 3928495 A 19960606; DE 59505226 D1 19990408; DE 59509294 D1 20010628; EP 0792380 A1 19970903; EP 0792380 B1 19990303; EP 0792380 B2 20020731; EP 0853133 A1 19980715; EP 0853133 B1 20010523; ES 2129866 T3 19990616; ES 2129866 T5 20030101; ES 2158428 T3 20010901

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