

Title (en)

Zinc alloys suitable for zinc die casting or pressure die casting and production process thereof

Title (de)

Zinklegierungen für den Zinkguss oder Zinkdruckguss und Verfahren zu deren Herstellung

Title (fr)

Alliage de zinc pour le moulage ou le moulage sous pression et son procédé de fabrication

Publication

**EP 1270752 B1 20061115 (DE)**

Application

**EP 02011128 A 20020518**

Priority

DE 10131344 A 20010628

Abstract (en)

[origin: DE10131344C1] Zinc alloy contains (in wt. %): 0.01-6 aluminum, 0.01-1.5 copper, 0.001-0.06 magnesium, 0.001-0.2 silicon, 0.002-0.05 titanium, and 0.0002-0.005 boron, and a balance of zinc. An Independent claim is also included for a process for the production of the zinc alloy in the form of pigs, sheets, strips or wires, comprising reacting a fine zinc alloy containing (in wt.%) 0.1-4.2 aluminum, 0.03-1.5 copper, 0.001-0.06 magnesium and 0.002-0.04 silicon with an aluminum-titanium-boron pre-alloy and optionally a silicon and/or chromium alloy and then processing to pigs, sheets, strips or wires. Preferred Features: The zinc alloy contains additionally contains up to 0.2 wt.% chromium. The alloy preferably contains 0.004-0.07 titanium, and 0.0002-0.005 boron.

IPC 8 full level

**C22C 1/02** (2006.01); **C22C 1/03** (2006.01); **C22C 18/00** (2006.01); **C22C 18/04** (2006.01)

CPC (source: EP)

**C22C 1/03** (2013.01); **C22C 18/04** (2013.01)

Cited by

US2022042143A1; WO2006024055A1; WO2005087961A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1270752 A1 20030102**; **EP 1270752 B1 20061115**; AT E345402 T1 20061215; DE 10131344 C1 20021121; DE 50208679 D1 20061228; ES 2275773 T3 20070616

DOCDB simple family (application)

**EP 02011128 A 20020518**; AT 02011128 T 20020518; DE 10131344 A 20010628; DE 50208679 T 20020518; ES 02011128 T 20020518