

Title (en)
Improved zinc base alloys containing titanium

Title (de)
Titan enthaltenden Legierungen auf Zinkbasis

Title (fr)
Alliages à base de zinc, contenant du titane

Publication
EP 0870846 A1 19981014 (EN)

Application
EP 98200637 A 19980302

Priority
US 83496797 A 19970407

Abstract (en)
The invention includes the discovery that the addition of titanium to a zinc based alloy containing epsilon as a primary phase results in an increase in tensile and compressive strength of the alloy. The alloy can be used in gravity, permanent mold or die casting processes to mold components or tooling. In a preferred embodiment, 0.01-0.1 weight percent titanium is added to a zinc based alloy containing 3-12 weight percent copper, 2-5 weight percent aluminum, minor constituents and the balance zinc.

IPC 1-7
C22C 18/02

IPC 8 full level
B22D 17/00 (2006.01); **C22C 18/02** (2006.01)

CPC (source: EP KR)
C22C 18/02 (2013.01 - EP KR)

Citation (search report)

- [A] FR 2102861 A5 19720407 - NISSO SMELTING CO LTD
- [A] US 2720459 A 19551011 - HOLZWARTH JAMES C
- [A] DE 3828397 A1 19890309 - NIPPON MINING CO [JP]
- [A] SU 176685 A1 19651117

Cited by
CN106191526A; WO2011011383A1

Designated contracting state (EPC)
DE ES FR GB

DOCDB simple family (publication)
EP 0870846 A1 19981014; CA 2228983 A1 19981007; JP H10324938 A 19981208; KR 100268359 B1 20001016; KR 19980080565 A 19981125

DOCDB simple family (application)
EP 98200637 A 19980302; CA 2228983 A 19980209; JP 9448398 A 19980407; KR 19980010012 A 19980323