

Title (en)

High strength magnesium alloy containing strontium and process for its manufacture by rapid solidification.

Title (de)

Hochfeste Magnesiumlegierung, Strontium enthaltend und Herstellungsverfahren mittels rascher Erstarrung.

Title (fr)

Alliage de magnésium à haute résistance mécanique contenant du strontium et procédé d'obtention par solidification rapide.

Publication

EP 0465376 A1 19920108 (FR)

Application

EP 91420177 A 19910530

Priority

FR 9007299 A 19900601

Abstract (en)

Mg-based alloy which has a breaking load of at least 290 MPa and an elongation at break of at least 5%, obtained by rapid solidification and consolidation and which has the following composition (weight %): Al 2 - 11% Mn 0 - 1% Sr 0.1 - 6% the remainder being magnesium.

Abstract (fr)

Alliage à base de Mg ayant une charge à la rupture au moins égale à 290 MPa, un allongement à la rupture d'au moins 5 %, obtenu par solidification rapide et consolidation et ayant la composition suivante (% poids) : Al 2 - 11 % Mn 0 - 1 % Sr 0,1 -6 % le reste étant du magnésium.

IPC 1-7

C22C 23/02

IPC 8 full level

B22F 1/00 (2006.01); **B22F 3/00** (2006.01); **B22F 9/08** (2006.01); **C22C 1/02** (2006.01); **C22C 1/04** (2006.01); **C22C 23/02** (2006.01); **C22C 45/00** (2006.01)

CPC (source: EP US)

C22C 23/02 (2013.01 - EP US); **C22C 45/005** (2013.01 - EP US)

Citation (search report)

- [A] WO 8908154 A1 19890908 - PECHINEY ELECTROMETALLURGIE [FR], et al
- [A] US 2233266 A 19410225 - MCDONALD JOHN C
- [A] DE 2526024 B1 19760715 - MAHLE GMBH

Cited by

EP0549998A1; US5340416A; EP1183402B1

Designated contracting state (EPC)

DE GB IT

DOCDB simple family (publication)

EP 0465376 A1 19920108; **EP 0465376 B1 19941026**; CA 2043723 A1 19911202; DE 69104784 D1 19941201; DE 69104784 T2 19950302; FR 2662707 A1 19911206; FR 2662707 B1 19920731; JP H04231435 A 19920820; US 5147603 A 19920915

DOCDB simple family (application)

EP 91420177 A 19910530; CA 2043723 A 19910531; DE 69104784 T 19910530; FR 9007299 A 19900601; JP 12606291 A 19910529; US 70462091 A 19910523