

Title (en)

High strength and anti-corrosive aluminum-based alloy.

Title (de)

Rostfeste und hochfeste Aluminiumlegierung.

Title (fr)

Alliage d'aluminium résistant à la corrosion et à haute résistance mécanique.

Publication

EP 0584596 A2 19940302 (EN)

Application

EP 93112487 A 19930804

Priority

- JP 4152893 A 19930302
- JP 20911592 A 19920805
- JP 20911692 A 19920805

Abstract (en)

The present invention provides a high strength and anti-corrosive aluminum-based alloy essentially consisting of an amorphous structure or a multiphase amorphous/fine crystalline structure, which is represented by the general formula Al_xMyR_z . In this formula, M represents at least one metal element selected from the group consisting of Ti, V, Cr, Mn, Fe, Co, Cu, Zr, Nb, Mo and Ni, and R represents at least one element or mixture selected from the group consisting of Y, Ce, La, Nd and Mm (misch metal). Additionally, in the formula, x, y and z represent the composition ratio, and are atomic percentages satisfying the relationships of $x + y + z = 100$, $64.5 \leq x \leq 95$, $0.5 \leq y \leq 35$, and $0 < z < 0.5$.

IPC 1-7

C22C 21/00; **C22C 45/08**

IPC 8 full level

C22C 21/00 (2006.01); **C22C 45/08** (2006.01)

CPC (source: EP)

C22C 21/00 (2013.01); **C22C 45/08** (2013.01)

Cited by

EP0710730A3; EP3933060A4; EP2112241A1; US6149737A; EP0866143A4; US6056802A; EP0819778A3; US7871477B2; US9194027B2; US8002912B2; US9611522B2; US7875131B2; US7879162B2; US7875133B2; US7883590B1; US8409373B2; US9127334B2; US7909947B2; US8017072B2; US8409497B2; US8409496B2; US8728389B2; US8778098B2; US8778099B2

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

EP 0584596 A2 19940302; **EP 0584596 A3 19940810**

DOCDB simple family (application)

EP 93112487 A 19930804