

Title (en)

Highly corrosion-resistant amorphous aluminum alloy

Title (de)

Hochkorrosionsbeständige amorphe Alumimiumlegierung

Title (fr)

Alliage amorphe d'aluminium à haute résistance à la corrosion

Publication

EP 0556808 B1 19960925 (EN)

Application

EP 93102487 A 19930217

Priority

JP 2936592 A 19920217

Abstract (en)

[origin: EP0556808A1] A highly corrosion resistant amorphous aluminum alloy which consists of more than 7 to not more than 55 atomic %, in total, of Cr, at least one element selected from the group consisting of Mo and W, at least one element selected from the group consisting of Ta, Nb and Ti and at least one element selected from the group consisting of Mg, Fe, Co, Ni and Cu, the total of Cr and at least one element selected from the group consisting of Mo and W being 7 atomic % or more, the balance being substantially Al. The amorphous aluminum alloy has excellent characteristics such as ultrahigh corrosion resistance and high corrosion resistance at high temperatures and is self-passivated by the formation of a stable protective film even in a Cl<-> ion-containing solution which is a severe corrosive environment for Al.

IPC 1-7

C22C 45/08

IPC 8 full level

C22C 45/08 (2006.01)

CPC (source: EP)

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Cited by

US2011204700A1; US8673455B2; US9347138B2; EP0564998B1

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