

Title (en)

Corrosion resistant copper alloy.

Title (de)

Korrosionsbeständige kupferlegierung.

Title (fr)

Alliage de cuivre résistant à la corrosion.

Publication

EP 0579904 B1 19951102 (DE)

Application

EP 93106094 A 19930415

Priority

DE 4213488 A 19920424

Abstract (en)

[origin: EP0579904A1] The invention relates to a corrosion-resistant copper alloy consisting of copper and at least two alloy elements which, in their electromotive series potential, are less electropositive than copper and which, together with copper, form a coherent, pore-free covering layer of oxides, hydrated oxides and/or hydroxides, the quantity of the individual elements being within those limits within which the alloy is in the solid-solution range under technical cooling conditions. This copper alloy is characterised by the following features: it contains at least 99.0 % by weight of copper, the melting point of the solid solution is above 400 DEG C, at least two alloy elements of unequal valency form, in the covering layer, thermodynamically stable chemical compounds of the said types in such a form that the two alloy elements together assume an average valency of between 2.5 and 3.0, the difference of the valencies being at most 3. <IMAGE>

IPC 1-7

C22C 9/00

IPC 8 full level

C22C 9/00 (2006.01)

CPC (source: EP)

C22C 9/00 (2013.01)

Cited by

EP0695810A1

Designated contracting state (EPC)

BE DE DK ES FR IT NL SE

DOCDB simple family (publication)

EP 0579904 A1 19940126; EP 0579904 B1 19951102; DE 4213488 A1 19931028; DE 4213488 C2 19950524; DE 59300844 D1 19951207; DK 0579904 T3 19960205; ES 2081653 T3 19960316; FI 102908 B1 19990315; FI 102908 B 19990315; FI 931830 A0 19930423; FI 931830 A 19931025

DOCDB simple family (application)

EP 93106094 A 19930415; DE 4213488 A 19920424; DE 59300844 T 19930415; DK 93106094 T 19930415; ES 93106094 T 19930415; FI 931830 A 19930423