

Title (en)

Oxide dispersion-strengthened nickel-base superalloy with improved corrosion resistance.

Title (de)

Oxyddispersionsgehärtete Superlegierung mit verbesserter Korrosionsbeständigkeit auf der Basis von Nickel.

Title (fr)

Superaliage à base de nickel et renforcé par une dispersion d'oxyde, présentant une bonne résistance à la corrosion.

Publication

**EP 0260465 A1 19880323 (DE)**

Application

**EP 87112012 A 19870819**

Priority

CH 359386 A 19860908

Abstract (en)

[origin: US4798625A] Superalloy with oxide dispersion hardening having improved corrosion and oxidation resistance and based on nickel with the following composition: Cr=17-18% by weight, Al=6-7% by weight, Mo=2-2.5% by weight, W=3-3.5% by weight, Ta=2-2.5% by weight, Zr<0.2% by weight, B<0.02% by weight, C<0.1% by weight, Y2O3=1-1.5% by weight, Ni=Remainder.

Abstract (de)

Oxyddispersionsgehärtete Superlegierung mit verbesserter Korrosions- und Oxydationsbeständigkeit auf der Basis von Nickel mit der nachfolgenden Zusammensetzung: Cr = 17 - 18 Gew.-%Al = 6 - 7 Gew.-%Mo = 2 - 2,5 Gew.-%W = 3 - 3,5 Gew.-%Ta = 2 - 2,5 Gew.-%Zr < 0,2 Gew.-%B < 0,02 Gew.-%C < 0,1 Gew.-%Y2O3 = 1 - 1,5 Gew.-%Ni = Rest

IPC 1-7

**C22C 32/00**

IPC 8 full level

**C22C 19/05** (2006.01); **C22C 32/00** (2006.01)

CPC (source: EP US)

**C22C 32/0026** (2013.01 - EP US)

Citation (search report)

- [A] US 3926568 A 19751216 - BENJAMIN JOHN STANWOOD, et al
- [A] US 3754902 A 19730828 - GOWARD G, et al
- [A] US 4386976 A 19830607 - BENN RAYMOND C, et al
- [A] CHEMICAL ABSTRACTS, Band 100, Nr. 12, 19. März 1984, Seite 266, Zusammenfassung Nr. 90013s, Columbus, Ohio, US; & JP-A-58 193 335 (SUMITOMO ELECTRIC INDUSTRIES, LTD.) 11.11.1983

Cited by

EP0507364A1; EP0398121A1; EP0525816A1; US6158249A; EP0488716A1; US5427601A; WO9302977A1

Designated contracting state (EPC)

CH DE FR GB LI SE

DOCDB simple family (publication)

**EP 0260465 A1 19880323; EP 0260465 B1 19920102**; DE 3775671 D1 19920213; JP 2630323 B2 19970716; JP S6369936 A 19880330; NO 873738 D0 19870907; NO 873738 L 19880309; US 4798625 A 19890117

DOCDB simple family (application)

**EP 87112012 A 19870819**; DE 3775671 T 19870819; JP 22513387 A 19870908; NO 873738 A 19870907; US 9034687 A 19870828