

Title (en)

Age hardenable / controlled thermal expansion alloy

Title (de)

Aushärtbare Legierung mit kontrolliertem Wärmeausdehnungskoeffizient

Title (fr)

Alliage à dilatation thermique régulée et durcissable par vieillissement

Publication

**EP 0856589 A1 19980805 (EN)**

Application

**EP 98300279 A 19980115**

Priority

US 79060997 A 19970129

Abstract (en)

The alloy of the invention provides a controlled coefficient of thermal expansion alloy that age hardens. This alloy consists essentially of, by weight percent, about 32 to 55 nickel, about 6 to 16 cobalt, about 1.2 to 7 chromium, about 0.25 to 1.5 aluminum, about 0.25 to 3 titanium, about 2 to 8 total (niobium + 1/2 tantalum), about 0.1 to 1.2 silicon and balance iron and incidental impurities with iron being about 28 to 50.

IPC 1-7

**C22C 19/05**; **C22C 38/10**

IPC 8 full level

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CPC (source: EP)

**C22C 19/058** (2013.01); **C22C 30/00** (2013.01); **C22C 38/105** (2013.01)

Citation (search report)

- [X] GB 1524800 A 19780913 - WIGGIN & CO LTD HENRY
- [A] US 5425912 A 19950620 - SMITH DARRELL F [US], et al
- [A] GB 2010329 A 19790627 - WIGGIN & CO LTD HENRY
- [A] US 4487743 A 19841211 - SMITH JOHN S [US], et al
- [A] EP 0588657 A1 19940323 - INCO ALLOYS INT [US]
- [A] US 5066458 A 19911119 - WANNER EDWARD A [US], et al

Cited by

CN104862585A; CN105200521A; CN105312555A; CN101979687A

Designated contracting state (EPC)

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