

Title (en)

Precipitation-hardenable nickel-based superalloy with particular mechanical properties in the temperature range of 600 to 750o C.

Title (de)

Ausscheidungshärtbare Nickelbasis-Superlegierung mit verbesserten mechanischen Eigenschaften im Temperaturbereich von 600 bis 750oC.

Title (fr)

Superaliage à base de nickel surcissable par précipitation et ayant des propriétés mécaniques améliorées dans la plage de température de 600 à 750oC.

Publication

EP 0330858 A1 19890906 (DE)

Application

EP 89101901 A 19890203

Priority

CH 75588 A 19880302

Abstract (en)

Precipitation-hardenable nickel-based superalloy having improved mechanical properties in the temperature range of 600 to 750<o>C and having the following composition: Cr = 12 - 15% by weight Co = 3 - 4.5% by weight W = 1 - 3.5% by weight Ta = 4 - 5.5% by weight Al = 3 - 4.3% by weight Ti = 4 - 5% by weight Hf = 0 - 2.5% by weight B = 0 - 0.02% by weight Zr = 0.01 - 0.06% by weight C = 0.05 - 0.07% by weight Ni = remainder
<IMAGE>

Abstract (de)

Ausscheidungshärtbare Nickelbasis-Superlegierung mit verbesserten mechanischen Eigenschaften im Temperaturbereich von 600 bis 750 °C mit der nachfolgenden Zusammensetzung: Cr = 12 - 15 Gew.-% Co = 3 - 4,5 Gew.-% W = 1 - 3,5 Gew.-% Ta = 4 - 5,5 Gew.-% Al = 3 - 4,3 Gew.-% Ti = 4 - 5 Gew.-% Hf = 0 - 2,5 Gew.-% B = 0 - 0,02 Gew.-% Zr = 0,01 - 0,06 Gew.-% C = 0,05 - 0,07 Gew.-% Ni = Rest

IPC 1-7

C22C 19/05; **C22F 1/10**

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [A] EP 0142668 A1 19850529 - BBC BROWN BOVERI & CIE [CH]
- [A] FR 2374427 A1 19780713 - GEN ELECTRIC [US]
- [A] GB 1124044 A 19680821 - UNITED AIRCRAFT CORP

Designated contracting state (EPC)

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