

Title (en)

Ni based superalloy and its use as gas turbine disks, shafts, and impellers

Title (de)

Ni-basis-Superlegierung und ihre Verwendung als Gasturbinen-Scheiben, -Wellen und -Laufräder

Title (fr)

Superaliage à base Ni et son utilisation comme disques, arbres et rotors de turbines à gaz

Publication

**EP 1195446 A1 20020410 (EN)**

Application

**EP 00308759 A 20001004**

Priority

EP 00308759 A 20001004

Abstract (en)

An alloy which is particularly useful in aircraft gas turbine disks (22), shafts (24), and impellers (22) has a composition, in weight percent, of from about 14 percent to about 23 percent cobalt, from about 11 percent to about 15 percent chromium, from about 0.5 percent to about 4 percent tantalum, from about 0.5 to about 3 percent tungsten, from about 2.7 to about 5 percent molybdenum, from about 0.015 to about 0.15 percent zirconium, from 0.25 to about 3 percent niobium, from about 3 to about 6 percent titanium, from about 2 to about 5 percent aluminum, from 0 to about 2.5 percent rhenium, from 0 to about 2 percent vanadium, from 0 to about 2 percent iron, from 0 to about 2 percent hafnium, from 0 to about 0.1 percent magnesium from about 0.015 to about 0.1 percent carbon, from about 0.015 percent to about 0.045 percent boron, balance nickel and impurities. <IMAGE>

IPC 1-7

**C22C 19/05**; **C22C 1/04**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

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