

Title (en)

Gas turbine blade alloy.

Title (de)

Legierung für eine Gasturbinenschaufel.

Title (fr)

Alliage pour une aube de turbine à gaz.

Publication

**EP 0561179 A2 19930922 (EN)**

Application

**EP 93102779 A 19930223**

Priority

US 85414292 A 19920318

Abstract (en)

A nickel-based alloy suitable for use in making gas turbine components, such as rotating blades is provided. The alloy comprises the following elements in weight percent: Chromium 14.75 to 16.0, Cobalt 8.0 to 8.5, Aluminum 3.4 to 4.0, Titanium 3.4 to 4.3, Aluminum plus Titanium 7.7 to 8.3, Tantalum 1.75 to 2.7, Tungsten 2.0 to 4.0, Columbium up to .5, Molybdenum up to 2.0, Carbon .05 to .12 and the balance Nickel. The alloy of the current invention may also comprise impurities and incidental elements generally associated with nickel-based alloys, such as Zirconium up to .06 and Boron up to .015 percent by weight. <IMAGE>

IPC 1-7

**C22C 19/05**

IPC 8 full level

**C22C 19/05** (2006.01)

CPC (source: EP KR)

**C22C 19/05** (2013.01 - KR); **C22C 19/056** (2013.01 - EP)

Cited by

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**EP 93102779 A 19930223**; AU 3380093 A 19930226; CA 2091827 A 19930317; CN 93102992 A 19930317; JP 8254293 A 19930317; KR 930004073 A 19930317; MX 9301280 A 19930309; TW 82101251 A 19930223