

Title (en)

METHOD FOR THE THERMOMECHANICAL TREATMENT OF SUPERALLOYS TO OBTAIN STRUCTURES WITH GREAT MECHANICAL CHARACTERISTICS

Publication

**EP 0148688 A3 19850814 (FR)**

Application

**EP 84402647 A 19841219**

Priority

FR 8320436 A 19831221

Abstract (en)

[origin: US4614550A] Thermo-mechanical treatment of superalloys enabling simultaneously the production of a structure which is fine and homogeneous, with work hardened grains, a reduction in the stresses resulting from cooling and the absence of parasitic phase (Ni<sub>3</sub>Nb- delta in the form of platelets for the Ni bases), characterized by an isothermal aging of predetermined duration after deformation in the final shaping sequence and in the finishing sequence which is followed by a limited amount of deformation and by a final heat treatment constituted solely by annealing producing precipitation of the hardening phase, this final treatment being optionally arranged to follow the finishing treatment, or in sequence, after cooling in air.

IPC 1-7

**C22F 1/10**

IPC 8 full level

**C22F 1/00** (2006.01); **C22F 1/10** (2006.01)

CPC (source: EP US)

**C22F 1/10** (2013.01 - EP US)

Citation (search report)

- [A] FR 2154871 A5 19730518 - CREUSOT LOIRE
- [A] FR 2099818 A5 19720317 - UNITED AIRCRAFT CORP
- [A] US 3871928 A 19750318 - SMITH JR DARRELL FRANKLIN, et al
- [A] FR 2062845 A5 19710625 - UNITED AIRCRAFT CORP

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EP0720177A1; FR2729000A1

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DE FR GB

DOCDB simple family (publication)

**EP 0148688 A2 19850717; EP 0148688 A3 19850814; EP 0148688 B1 19881012**; DE 3474571 D1 19881117; FR 2557145 A1 19850628; FR 2557145 B1 19860523; JP S60155658 A 19850815; US 4614550 A 19860930

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