

Title (en)

PROCESS FOR THE REJUVENATION OF NICKEL-BASED SUPERALLOY ARTICLES BEING AT THE END OF THEIR SERVICE LIFE

Publication

EP 0184949 B1 19890719 (FR)

Application

EP 85402131 A 19851106

Priority

FR 8416974 A 19841108

Abstract (en)

[origin: US4753686A] Method for the regeneration of machine parts of a nickel-based alloy, such as turbo-machine blades having reached the end of their useful operational life as a consequence of damage by creep in particular, consisting in holding the part for at least 1 hour at a temperature sufficient to redissolve a volumetric fraction of at least 50% of the gamma ' phase, then controlling its precipitation by controlling the rate of cooling so as to regenerate its microstructural morphology.

IPC 1-7

B23P 6/00; 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)

Cited by

EP0937784A1; US6171417B1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0184949 A1 19860618; EP 0184949 B1 19890719; EP 0184949 B2 19920826; CA 1275230 C 19901016; DE 3571650 D1 19890824; FR 2572738 A1 19860509; FR 2572738 B1 19870220; IL 76930 A0 19860429; IL 76930 A 19880831; JP H046789 B2 19920206; JP S61119661 A 19860606; US 4753686 A 19880628

DOCDB simple family (application)

EP 85402131 A 19851106; CA 494901 A 19851108; DE 3571650 T 19851106; FR 8416974 A 19841108; IL 7693085 A 19851104; JP 25057985 A 19851108; US 93188386 A 19861117