

Title (en)
Iron-nickel superalloy of the IN 706 type

Title (de)
Eisen-Nickel-Superlegierung vom Typ IN 706

Title (fr)
Superaliage fer-nickel du type IN 706

Publication
EP 0774526 B1 20020116 (DE)

Application
EP 96810754 A 19961107

Priority
DE 19542920 A 19951117

Abstract (en)
[origin: EP0774526A1] Iron-nickel superalloy of IN 706 type contains 0.02-0.3wt.% boron and/or 0.05-1.5 wt.% hafnium. Production of a high temperature resistant material made of the superalloy is also claimed and comprises solution calcining the starting body in an oven at 900-1000 degrees C, and subsequently age-hardening at 700-760 degrees C and then at 600-650 degrees C.

IPC 1-7
C22C 19/05; **C22F 1/10**

IPC 8 full level
C21D 6/00 (2006.01); **C22C 19/05** (2006.01); **C22C 30/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/08** (2006.01); **C22F 1/10** (2006.01)

CPC (source: EP KR US)
C22C 19/058 (2013.01 - EP US); **C22C 38/08** (2013.01 - KR); **C22F 1/10** (2013.01 - EP US)

Cited by
EP2471970A3; US8512485B2; US8313593B2

Designated contracting state (EPC)
DE FR GB

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EP 0774526 A1 19970521; **EP 0774526 B1 20020116**; CA 2184960 A1 19970518; CA 2184960 C 20080108; CN 1079840 C 20020227; CN 1157332 A 19970820; DE 19542920 A1 19970522; DE 59608591 D1 20020221; JP 3781494 B2 20060531; JP H09170054 A 19970630; KR 970027351 A 19970624; RU 2173349 C2 20010910; US 5863494 A 19990126

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EP 96810754 A 19961107; CA 2184960 A 19960906; CN 96114573 A 19961116; DE 19542920 A 19951117; DE 59608591 T 19961107; JP 30515796 A 19961115; KR 19960046582 A 19961017; RU 96121981 A 19961115; US 70761096 A 19960905