

Title (en)  
A nickel based superalloy

Title (de)  
Nickelbasis-Superlegierung

Title (fr)  
Superaliage à base de nickel

Publication  
**EP 2045345 B1 20110706 (EN)**

Application  
**EP 08252916 A 20080902**

Priority  
GB 0719195 A 20071002

Abstract (en)  
[origin: EP2045345A1] A nickel base superalloy consisting of 20 to 40wt% cobalt, 10 to 15wt% chromium, 3 to 6wt% molybdenum, 0 to 5wt% tungsten, 2.5 to 4wt% aluminium, 3.4 to 5wt% titanium, 1.35 to 2.5wt% tantalum, 0 to 2wt% niobium, 0.5 to 1wt% hafnium, 0 to 0.1wt% zirconium, 0.01 to 0.05wt% carbon, 0.01 to 0.05wt% boron, 0 to 2wt% silicon and the balance nickel plus incidental impurities. The gamma prime phase comprises (Ni/Co) 3 (Al/Ti/Ta).

IPC 8 full level  
**C22C 19/05** (2006.01); **C22C 19/07** (2006.01)

CPC (source: EP US)  
**C22C 1/0433** (2013.01 - EP US); **C22C 1/047** (2023.01 - EP US); **C22C 19/056** (2013.01 - EP US); **C22C 19/07** (2013.01 - EP US); **C22C 30/00** (2013.01 - EP US)

Cited by  
US2011088817A1; CN107960109A; DE102018208736A1; CN102816953A; EP2602336A4; EP2532761A1; CN102816965A; EP2503013A4; DE102018208737A1; EP2383356A1; CN102234732A; EP2620594A1; US8961646B2; US9266170B2; US10227678B2; WO2016016437A3; US10266919B2; US10422024B2; US10138534B2; US10358701B2

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DOCDB simple family (publication)  
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