

Title (en)  
NI-BASED SUPERALLOY

Title (de)  
SUPERLEGIERUNG AUF NI-BASIS

Title (fr)  
SUPERALLIAGE À BASE DE NI

Publication  
**EP 3366794 A1 20180829 (EN)**

Application  
**EP 18157015 A 20180215**

Priority  
JP 2017033971 A 20170224

Abstract (en)  
The present invention relates to an Ni-based superalloy having a composition containing, in terms of % by mass, C: from 0.1 to 0.3%, Cr: from 8.0 to 12.0%, Mo: from 1.0 to 5.0%, Co: from 10.0 to 20.0%, Ta: from 0.01 to 1.50%, Ti: from 2.0 to 4.2%, Al: from 5.0 to 8.0%, V: from 0 to 1.5%, B: from 0.005 to 0.030%, and Zr: from 0.05 to 0.15%, with the balance being Ni and unavoidable impurities, and satisfying, in terms of atom%, Ti+Al being from 16.0 to 20.3% and Ti/Al being 0.3 or less.

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

CPC (source: CN EP US)  
**C22C 19/05** (2013.01 - EP US); **C22C 19/056** (2013.01 - CN EP US); **C22C 19/057** (2013.01 - EP US)

Citation (applicant)  
JP 2015101753 A 20150604 - IHI CORP

Citation (search report)

- [AD] JP 2015101753 A 20150604 - IHI CORP
- [A] EP 1795621 A1 20070613 - HITACHI LTD [JP]
- [A] EP 1462533 A1 20040929 - DAIDO STEEL CO LTD [JP]
- [A] EP 2913418 A1 20150902 - DAIDO STEEL CO LTD [JP]
- [A] EP 2796578 A1 20141029 - GEN ELECTRIC [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3366794 A1 20180829**; **EP 3366794 B1 20190619**; CN 108504903 A 20180907; CN 108504903 B 20200728; JP 2018138690 A 20180906; JP 6769341 B2 20201014; US 10385426 B2 20190820; US 2018245188 A1 20180830

DOCDB simple family (application)  
**EP 18157015 A 20180215**; CN 201810156719 A 20180224; JP 2017033971 A 20170224; US 201815900460 A 20180220