

Title (en)

OXIDE-DISPERSION-STRENGTHENED ALLOY

Title (de)

OXIDDISPERSIONSVERSTÄRKTE LEGIERUNG

Title (fr)

ALLIAGE RENFORCÉ PAR DISPERSION D OXYDES

Publication

**EP 2327807 A4 20160727 (EN)**

Application

**EP 09808250 A 20090817**

Priority

- JP 2009064410 W 20090817
- JP 2008212185 A 20080820

Abstract (en)

[origin: EP2327807A1] [Problem to be Solved] The present invention provides an oxide dispersion strengthened alloy in which even with aluminum contained, the particle diameter and dispersion spacing of the oxide are decreased, and the strength at high temperature, the high temperature oxidation and the corrosion resistance can be improved. [Solution] An oxide dispersion strengthened alloy being a nickel-base alloy containing aluminum, hafnium, and yttrium oxide, wherein a complex oxide of the yttrium oxide and hafnium oxide is dispersed in a matrix of the nickel-base alloy, with the aluminum contained.

IPC 8 full level

**C22C 19/03** (2006.01); **C22C 1/04** (2006.01); **C22C 1/05** (2006.01); **C22C 19/00** (2006.01); **C22C 32/00** (2006.01)

CPC (source: EP US)

**C22C 1/1084** (2013.01 - EP US); **C22C 19/007** (2013.01 - EP US); **C22C 19/03** (2013.01 - EP US); **C22C 32/001** (2013.01 - EP US);  
**C22C 32/0089** (2013.01 - EP US)

Citation (search report)

- [XD] US 5510080 A 19960423 - NISHI KAZUYA [JP], et al
- [X] JP H1143732 A 19990216 - HITACHI LTD
- See references of WO 2010021314A1

Cited by

CN113061781A; CN105983703A; GB2559950A; CN102251132A; CN102690977A

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**EP 2327807 A1 20110601; EP 2327807 A4 20160727;** JP WO2010021314 A1 20120126; US 2011142711 A1 20110616;  
WO 2010021314 A1 20100225

DOCDB simple family (application)

**EP 09808250 A 20090817;** JP 2009064410 W 20090817; JP 2010525688 A 20090817; US 200913059774 A 20090817