Title (en)

Article and method for forming article

Title (de)

ARTIKEL UND VERFAHREN ZUR BILDUNG EINES ARTIKELS

Title (fr)

ARTICLE ET PROCÉDÉ DE FORMATION D'UN ARTICLE

Publication

EP 2913417 A1 20150902 (EN)

Application

EP 15156338 A 20150224

Priority

US 201414193198 A 20140228

Abstract (en)

An article and a method for forming the article are disclosed. The article includes an equiaxed grain structure and a composition (RNX). The composition includes, by weight percent, about 6.0% to about 9.0% aluminum, up to about 0.5% titanium, about 2.5% to about 4.5% tantalum, about 10.0% to about 12.5% chromium, about 5.0% to about 10.0% cobalt, about 0.30% to about 0.80% molybdenum, about 2.0% to about 5.0% tungsten, up to about 1.0% silicon, about 0.35% to about 0.60% hafnium, about 0.005% to about 0.010% boron, about 0.06% to about 0.10% carbon, up to about 0.02% zirconium, up to about 0.1% lanthanum, up to about 0.03% yttrium, and balance nickel and incidental impurities. Rhenium, if present, is a trace element. The method for forming the article includes providing the composition having up to about 0.01 % rhenium and forming the article.

IPC 8 full level

C22C 19/05 (2006.01); **C22F 1/10** (2006.01)

CPC (source: EP US)

B22D 18/04 (2013.01 - US); **B22D 21/025** (2013.01 - US); **B22D 25/02** (2013.01 - US); **C22C 19/056** (2013.01 - EP US); **C22F 1/10** (2013.01 - EP US); **F01D 5/282** (2013.01 - US); **F01D 25/005** (2013.01 - US)

Citation (search report)

[A] EP 0684321 A1 19951129 - CANNON MUSKEGON CORP [US]

Cited by

EP4043600A1; US11739398B2

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)

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DOCDB simple family (application)

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