Title (en)
A cast nickel-iron-base alloy component and process of forming a cast nickel-iron-base alloy component

Title (de)
Legierung auf Nickel-Eisen-Basis und Verfahren zur Herstellung einer Legierung auf Nickel-Eisen-Basis

Title (fr)
Composant d'alliage à base de nickel-fer et procédé de formation d'un composant d'alliage à base de nickel-fer

Publication
EP 2617846 A3 20140212 (EN)

Application
EP 12191913 A 20121109

Priority
US 201113299823 A 20111118

Abstract (en)
[origin: US2013126056A1] A cast nickel-iron-base alloy component having by weight about 12.0% to about 16.5% Cr, about 1.0% to about 2.0% Al, about 2.0% to about 3.0% Ti, about 2.0% to about 3.0% W, about 3.0 to about 5.0% Mo, up to about 0.1% Nb, up to about 0.2% Mn, up to about 0.1% Si, about 0.05% to about 0.10% C, about 0.003 to about 0.010% B, about 35% to about 37% Fe, and balance essentially Ni and inevitable impurities. The nickel-iron-base alloy component has a creep rupture life greater than about 1000 hours at about 25 ksi to about 30 ksi at about 1400° F. A method for forming the cast nickel-iron-base alloy component is also disclosed.

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C21D 1/00 (2013.01 - EP US); C22C 19/056 (2013.01 - EP US); C22F 1/10 (2013.01 - EP US); F05D 2240/12 (2013.01 - EP US); F05D 2300/111 (2013.01 - EP US)

Citation (search report)
- [XP] EP 2465959 A1 20120620 - GEN ELECTRIC [US]
- [A] EP 2295611 A1 20110316 - GEN ELECTRIC [US]
- [A] EP 1469095 A1 20041020 - 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)
US 2013126056 A1 20130523; EP 2617846 A2 20130724; EP 2617846 A3 20140212; JP 2013108176 A 20130606

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