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(54) **A cast nickel-iron-base alloy component and process of forming a cast nickel-iron-base alloy component**

(57) A cast nickel-iron-base alloy component having by weight 12.0 % to 16.5 % Cr, 1.0 % to 2.0 % Al, 2.0 % to 3.0 % Ti, 2.0 % to 3.0 % W, 3.0 to 5.0 % Mo, up to 0.1 % Nb, up to 0.2 % Mn, up to 0.1 % Si, 0.05 % to 0.10 %

C, 0.003 to 0.010 % B, 35 % to 37 % Fe, and balance Ni and inevitable impurities. The nickel-iron-base alloy component has a creep rupture life greater than 1000 hours at 25 ksi to 30 ksi at 1400 °F. A method for forming the cast nickel-iron-base alloy component is also disclosed.

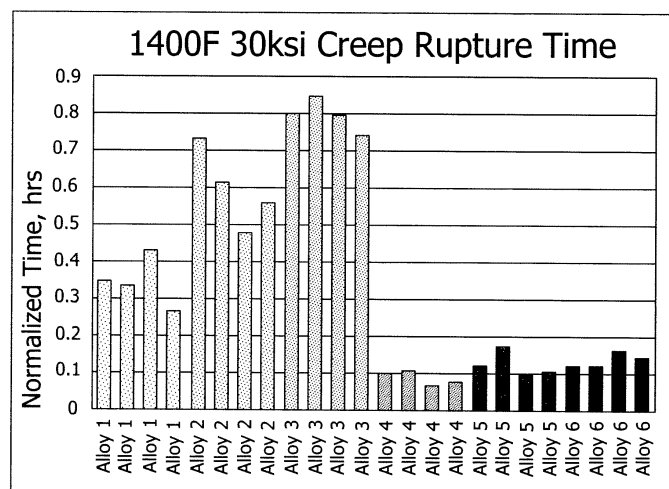


FIG. 3

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EUROPEAN SEARCH REPORT

Application Number
EP 12 19 1913

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 3 January 2014	Examiner Brown, Andrew
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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