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(11) **EP 1 116 796 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
17.12.2003 Bulletin 2003/51

(51) Int Cl.7: **C21D 6/00, C21D 6/02**

(43) Date of publication A2:
18.07.2001 Bulletin 2001/29

(21) Application number: **01300136.7**

(22) Date of filing: **08.01.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **11.01.2000 JP 2000006219**

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(54) **High chromium ferritic heat resisting steel and method of heat treatment for the same**

(57) The invention provides a method of heat-treatment for high chromium ferritic heat resisting steel, which comprises the steps of:

(a) heat-treating for 5 seconds or longer high chromium ferritic steel containing chromium (Cr) in amount of 7-12 weight %; one or two elements of molybdenum (Mo) and tungsten (W) as a solid-solution strengthening element; and one or more of elements for forming (a) MX carbonitride(s) at a temperature higher than both solid-solution temper-

ature of said element(s) for forming the MX carbonitride(s) and a precipitation starting temperature of δ ferrite;
(b) cooling said steel at a rate of 0.5°C/s or faster; and
(c) subsequently tempering said steel.

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EUROPEAN SEARCH REPORT

Application Number
EP 01 30 0136

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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 1 October 2003	Examiner Brown, A
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			

EPO FORM 1503 03.82 (P04C01)

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