

EUROPEAN PATENT APPLICATION

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Nickel-chromium alloy.

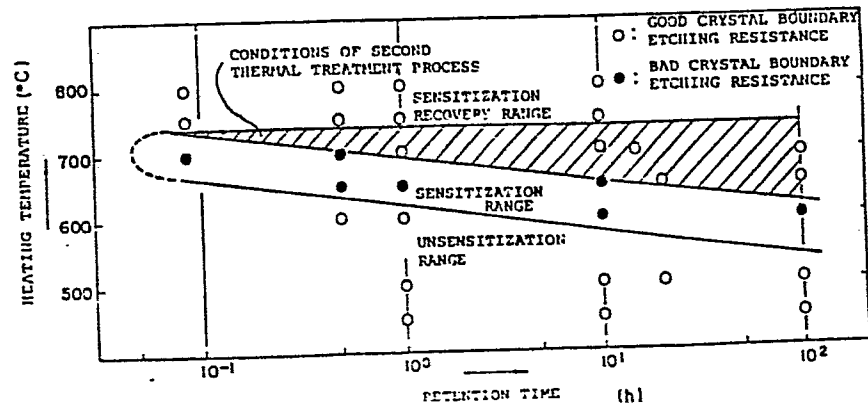
The present invention provides a nickel-chromium alloy, which has excellent mechanical properties, improved pitting corrosion resistance, good stress corrosion cracking resistance and crystal boundary etching resistance. The Ni-Cr alloy is obtained by carrying out a double annealing treatment, said alloy having the following composition in terms of % by weight,

40-70 % of Ni; 25 - 35% of Cr;
0.015% or less of C; 1.0% or less of Mn;

1.0% or less of Si; 0.030% or less of P;
0.020% or less of S and
the residue comprising Fe and impurities.

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FIG. 2





EUROPEAN SEARCH REPORT

0109350

Application number

EP 83 73 0106

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int Cl 4)		
X	GB-A- 483 744 (DRIVER HARRIS WIRE CO.) * Abstract a,b; page 1, lines 15-28 ---	1	C 22 C 19/05 C 22 F 1/10		
X	FR-A-2 001 576 (INTERNATIONAL NICKEL LTD) * Claims 1,4 *	1			
X	US-A-3 303 531 (OGDEN) * Claim 1 * & DE-A-1 660 280 & GB-A-1 104 193 ---	1			
Y	DE-A-2 809 081 (HITACHI LTD) * Claims 1,2; page 24, table, example 8; page 11, "Beschreibung", first paragraph * ---	6	TECHNICAL FIELDS SEARCHED (Int Cl 4)		
P,Y	FR-A-2 507 630 (SUMITOMO METAL IND.) Claims 1-7 * -----	6	C 22 F C 22 C		
XX					
Place of search		Date of completion of the search	Examiner		
The Hague		21-04-1987	LIPPENS		
CATEGORY OF CITED DOCUMENTS		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			
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					



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,

namely:

- 1) Claim 1: Ni-Cr alloy with maximum 0,015% C
- 2) Claim 2: Ni-Cr alloy with 0,012 to 0,035% C
- 3) Claims 3-5: Ni-Cr alloy with maximum 0,04% C
- 4) Claim 6: Ni-Cr alloy with maximum 0,15% C

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims: 1, 6
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: