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(11) Publication number:

0 639 654 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **94112923.1**(51) Int. Cl.⁶: **C22C 38/00**, C22C 38/46,
C22C 38/48, C22C 38/50,
F01L 3/02(22) Date of filing: **18.08.94**(30) Priority: **19.08.93 JP 204940/93**
25.03.94 JP 56219/94(43) Date of publication of application:
22.02.95 Bulletin 95/08(84) Designated Contracting States:
DE FR GB IT(88) Date of deferred publication of the search report:
11.10.95 Bulletin 95/41(71) Applicant: **HITACHI METALS, LTD.**
1-2, Marunouchi 2-chome
Chiyoda-ku,
Tokyo (JP)
Applicant: **HONDA GIKEN KOGYO KABUSHIKI**
KAISHA
1-1, Minamiaoyama 2-chome
Minato-ku
Tokyo (JP)(72) Inventor: **Sato, Koji**
1514-5, Hashimacho
Yasugi-shi (JP)
Inventor: **Ohno, Takehiro**
1174-1, Hashimacho
Yasugi-shi (JP)
Inventor: **Sato, Katsuaki**
2320-136, Higashimizunuma,
Hagamachi
Haga-gun,
Tochigi-ken (JP)
Inventor: **Saka, Tsutomu**
7-24, Ishiwaramachi-2-chome
Kawagoe-shi (JP)(74) Representative: **Patentanwälte Beetz - Timpe -**
Siegfried Schmitt-Fumian - Mayr
Steinsdorfstrasse 10
D-80538 München (DE)(54) **Fe-Ni-Cr-base super alloy, engine valve and knitted mesh supporter for exhaust gas catalyzer.**

(57) An Fe-Ni-Cr-base superalloy essentially consists of, by weight, up to 0.15 % C, up to 1.0 % Si, up to 3.0 % Mn, 30 to 49 % Ni, 10 to 18 % Cr, 1.6 to 3.0 % Al, one or more elements selected from Groups IVa and Va whose amount or total amount is 1.5 to 8.0 %, and balance of Fe and unavoidable impurities. If necessary, Mo, W, Co, B, Mg, Ca, Y and REM can be added in predetermined ranges. The superalloy is suitable for engine valves, knitted mesh

supporters for exhaust gas catalyzers and so forth, and is excellent in high-temperature strength and normal-temperature ductility after long-time heating and has a sufficient acid resistance property.

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EUROPEAN SEARCH REPORT

Application Number
EP 94 11 2923

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.6)
A	PATENT ABSTRACTS OF JAPAN vol. 10 no. 258 (C-370) ,4 September 1986 & JP-A-61 084347 (HONDA MOTOR CO.) 28 April 1986, *Table 1 in patent document* ---	1-18	C22C38/00 C22C38/46 C22C38/48 C22C38/50 F01L3/02
A	PATENT ABSTRACTS OF JAPAN vol. 5 no. 71 (C-054) ,13 May 1981 & JP-A-56 020148 (DAIDO STEEL CO.) 25 February 1981, * abstract * *Tables in patent document* ---	1-18	
A	US-A-4 172 742 (ROWCIFFE ET AL.) 30 October 1979 *Table II, Alloys D-25 and D25A, claims and Figures* ---	1-18	
A	DE-A-21 62 596 (ALLEGHENY LUDLUM IND. INC.) 13 July 1972 *Table 1* ---	1-18	
D,A	PATENT ABSTRACTS OF JAPAN vol. 12 no. 501 (C-556) ,27 December 1988 & JP-A-63 213631 (DAIDO STEEL) 6 September 1988, *Table 1 in patent document* * abstract * ---	1-18	TECHNICAL FIELDS SEARCHED (Int.Cl.6) C22C F01L
D,A	US-A-4 767 597 (NISHINO ET AL.) 30 August 1988 *Table 1* -----	1-18	
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 12 July 1995	Examiner Badcock, G
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