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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: NICKEL BASED ALLOY USEFUL FOR VALVE SEAT INSERTS

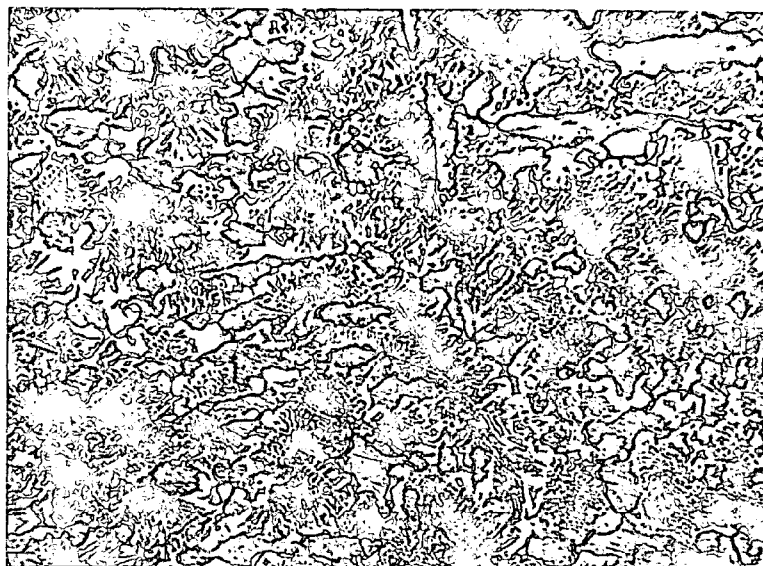


FIG. 1

(57) Abstract: Disclosed herein is a nickel based alloy comprising, in weight percentage: carbon from about 0.5 to about 1.5; chromium from about 25 to about 35; tungsten from about 12 to about 18; iron from about 3.5 to about 8.5; molybdenum from about 1 to about 8; manganese up to about 0.50; silicon up to about 1.0; and the balance nickel and incidental impurities. The alloy is suitable for valve seat insert applications in internal combustion engines.



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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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A. CLASSIFICATION OF SUBJECT MATTER*C22C 19/05(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C22C 19/05; G06F 15/16; H04J 3/22; H04B 7/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: Nickel alloy; valve seat insert; tungsten; molybdenum; and chromium

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6482275 B1 (QIAO; CONG YUE) 19 November 2002 See abstract; column 3 lines 8-57; and claims 1, 12, 17-21	1-20
A	JP 55-104451 A (MITSUBISHI METAL CORP.) 09 August 1980 See abstract; column 7 line 10-column 11 line 12; table 1; and claims 1, 2	1-20
A	US 2005-0129567 A1 (KIRCHHEINER; ROLF et al.) 16 June 2005 See abstract; paragraphs [0012]-[0017]; and claims 1-4	1-20
A	JP 57-101635 A (MITSUBISHI METAL CORP.) 24 June 1982 See abstract; column 5 line 12-column 8 line 17; and claim 1	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

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INTERNATIONAL SEARCH REPORT

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