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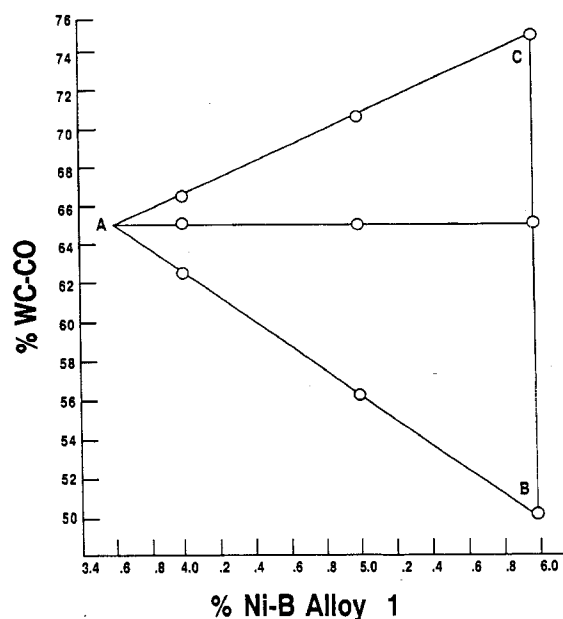
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A coated article and a method of coating said article.

The present specification discloses a coated article having a wear and corrosion resistant coating which is formed by blending a powder formulation having a metal carbide-metal binder component and a nickel base boron containing alloy component. The blend is deposited on a body of the article by a method capable of producing a coating with an as-deposited porosity of less than 5% and a boron content of 1.3 to 3.0 wt % of the whole coating. Then the coated article is preferably heat-treated to achieve in the coating a microhardness above 900 Kg/mm² HV.3 and the elimination of all interconnected porosity. The coating thus produced will sustain oil quenching without cracking.





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 93 31 0374

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.5)
X,D	GB-A-2 106 144 (UNION CARBIDE CORPORATION) * page 3, line 14 - line 46; claim 1 * * page 4, line 1 - line 59 * ---	1,6,8,10	C23C4/06 C23C4/18
X	FR-A-2 317 368 (EUTECTIC CORPORATION) * claims 1,13,18 * ---	1,2,6-8	
A	DE-B-11 85 034 (METCO INC.) * claim 1; example 8 * ---	1,2,6-8	
A	WO-A-82 01897 (CASTOLIN) * claims 1-3 * ---	1,5,6,8	
A	CHEMICAL ABSTRACTS, vol. 103, no. 26, 30 December 1985, Columbus, Ohio, US; abstract no. 219227h, SHOWA DENKO 'hard alloy powder for thermal spraying' page 246 ;column 103 ; * abstract * & jp-a-60103169 (07-06-85) ---	1,6,8	
A,D	GB-A-2 021 641 (UNION CARBIDE) * claims 1,15 * ---	1,4,6,10	C23C
A	EP-A-0 138 228 (UNION CARBIDE CORPORATION) * claims 1,6 * ---	3,9	
A	US-A-5 149 597 (KENNETH H. HOLKO) -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 6 February 1995	Examiner Elsen, D
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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