

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 December 2004 (02.12.2004)

PCT

(10) International Publication Number
WO 2004/104249 A2

(51) International Patent Classification⁷: **C22C 29/06**

(21) International Application Number:
PCT/US2004/015557

(22) International Filing Date: 18 May 2004 (18.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/471,790 20 May 2003 (20.05.2003) US
10/829,824 22 April 2004 (22.04.2004) US

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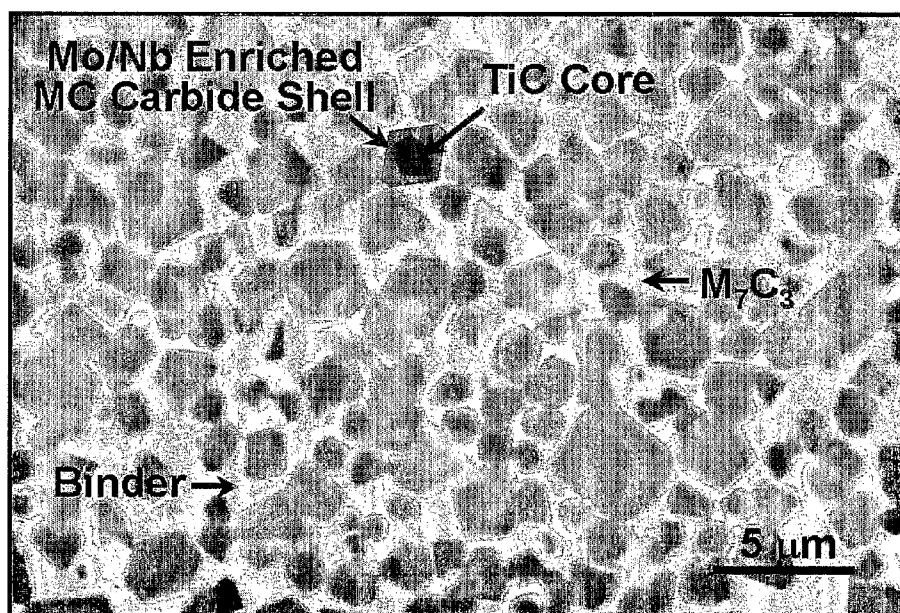
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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(54) Title: **ADVANCED EROSION RESISTANT CARBIDE CERMETS WITH SUPERIOR HIGH TEMPERATURE CORROSION RESISTANCE**



(57) Abstract: Cermets are provided in which a substantially stoichiometric metal carbide ceramic phase along with a reprecipitated metal carbide phase, represented by the formula M_xC_y , is dispersed in a metal binder phase. In M_xC_y M is Cr, Fe, Ni, Co, Si, Ti, Zr, Hf, V, Nb, Ta, Mo or mixtures thereof, x and y are whole or fractional numerical values with x ranging from 1 to 30 and y from 1 to 6. These cermets are particularly useful in protecting surfaces from erosion and corrosion at high temperatures.

WO 2004/104249 A2



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report*

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