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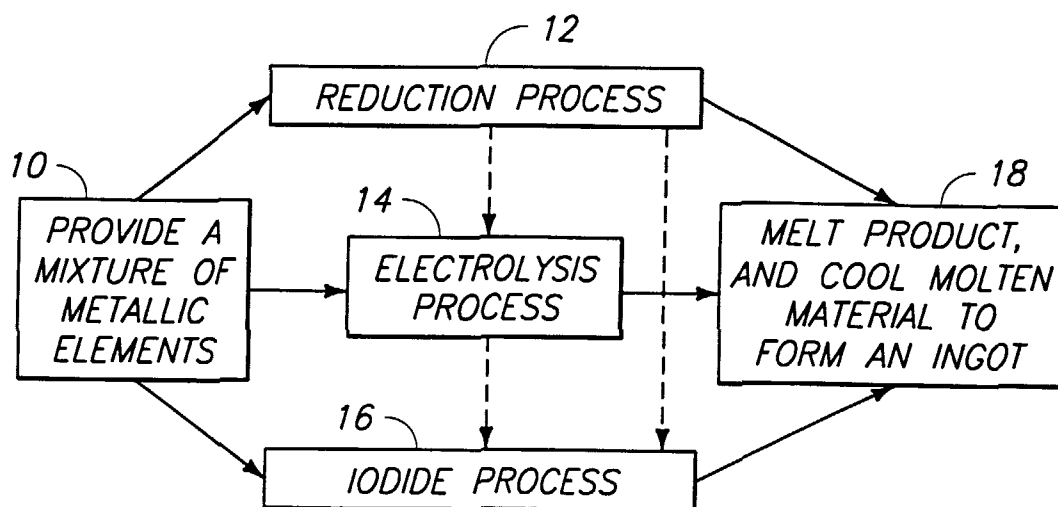
(43) International Publication Date
8 August 2002 (08.08.2002)

PCT

(10) International Publication Number
WO 02/061168 A2

- (51) International Patent Classification⁷: C23C 14/34, 16/08, C22B 34/00, C22C 27/00
- (21) International Application Number: PCT/US01/50645
- (22) International Filing Date: 17 October 2001 (17.10.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/695,814 24 October 2000 (24.10.2000) US
- (71) Applicant: HONEYWELL INTERNATIONAL INC.
[US/US]; Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US).
- (72) Inventors: TURNER, Stephen, P.; 4026 Turnwood Lane, Moon, PA 15108 (US). GREEN, Joseph, E.; 200 Whispering Oaks Drive, Cranberry Township, PA 16066 (US). SCAGLINE, Rodney, L.; 582 Prospect Road, Evans City, PA 16033 (US). XU, Yun; 3679 Allendale Circle, Pittsburgh, PA 15204 (US).
- (74) Agents: LATWESEN, David, G. et al.; 601 W. First Avenue, Ste. 1300, Spokane, Washington 99201 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, 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, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (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
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: METHODS OF FORMING TITANIUM-BASED AND ZIRCONIUM-BASED MIXED-METAL MATERIALS; AND SPUTTERING TARGETS



(57) Abstract: The invention encompasses methods of forming titanium-based mixed-metal materials and zirconium-based mixed-metal materials utilizing one or more of a reduction process, electrolysis process and iodide process. The invention also encompasses a sputtering target comprising zirconium and one or more elements selected from the group consisting of Al, B, Ba, Be, Ca, Ce, Co, Cs, Dy, Er, Fe, Gd, Hf, Ho, La, Mg, Mn, Mo, Nb, Ni, Pr, Sc, Sm, Sr, Ta, Ti, V, W, Y, and Yb. The invention also encompasses a sputtering target comprising titanium and boron.