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(21) International Application Number: PCT/US99/02211 (22) International Filing Date: 2 February 1999 (02.02.99) (30) Priority Data: 09/017,483 2 February 1998 (02.02.98) US (71) Applicant: PHILIP MORRIS PRODUCTS INC. [US/US]; 3601 Commerce Road, Richmond, VA 23234 (US). (72) Inventors: DEEVI, Seetharama, C.; 8519 Whirlaway Drive, Midlothian, VA 23113 (US). SCHNEIBEL, Joachim, Hugo; 1150 North Heritage Drive, Maryville, TN 37803 (US). (74) Agents: SKIFF, Peter, K. et al.; Burns, Doane, Swecker & Mathis, L.L.P., P.O. Box 1404, Alexandria, VA 22313-1404 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: IRON ALUMINIDE COMPOSITE AND METHOD OF MANUFACTURE THEREOF		
(57) Abstract An iron aluminide composite including an oxide filler and an additive which improves metallurgical bonding of the oxide filler to the iron aluminide. The composite is useful for structural components, extruded shapes and electrical resistance heating elements. The iron aluminide can include, in weight %, ≤ 1 % Cr, 4-32 % Al, ≤ 2 % Ti, ≤ 2 % Mo, ≤ 1 % Zr, ≤ 1 % C, ≤ 3 % W and ≤ 0.1 % B. The oxide filler can comprise ≤ 40 % aluminum oxide particles and the additive can comprise up to 40 % of one or more refractory carbides such as TiC.		