

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
4 May 2006 (04.05.2006)

PCT

(10) International Publication Number
WO 2006/045169 A3

(51) International Patent Classification:

C04B 35/495 (2006.01) *C01G 33/00* (2006.01)
B28B 3/20 (2006.01)

Metalurgia e Mineração, Córrego da Mata s/nº, 38183-970 Araxá - MG (BR).

(21) International Application Number:

PCT/BR2005/000220

(74) Agent: **MOMSEN, LEONARDOS & CIA.**; Mr. Gustavo José F. Barbosa, Rua Teófilo Otoni 63, 10th floor, 20090-080 Rio de Janeiro RJ (BR).

(22) International Filing Date: 21 August 2005 (21.08.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PI0404690-0 28 October 2004 (28.10.2004) BR

(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, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(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, IS, IT, LT, LU, LV, 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:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

1 March 2007

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: PROCESSES FOR NIOBIUM OXIDE EXTRUSION CASTING OR CONFORMATION AND PREPARATION OF A HYDROLIZED AND AMORPHOUS NIOBIUM OXIDE AND USE OF A NIOBIUM OXIDE IN THE EXTRUDED FORM

WO 2006/045169 A3

(57) Abstract: The invention relates to a process for extrusion casting or conformation of a niobium oxide, in which the extruded profile is obtained by means of drying and calcination, in appropriate conditions, of a green extruded profile, which is obtained by extrusion casting of a niobium oxide viscous gel. The invention also relates to a process for preparation of a hydrolyzed and amorphous niobium oxide, in which the hydrolyzed and amorphous niobium oxide is synthesized from organic or inorganic niobium precursors. At last, the invention relates to uses of a niobium oxide in the extruded form.

