



(43) International Publication Date
2 June 2005 (02.06.2005)

PCT

(10) International Publication Number
WO 2005/049496 A3

- (51) **International Patent Classification⁷:** C01G 23/053, C09C 1/36

(21) **International Application Number:** PCT/US2004/037421

(22) **International Filing Date:** 10 November 2004 (10.11.2004)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:** 10/712,768 13 November 2003 (13.11.2003) US

(71) **Applicant (for all designated States except US):** ALTAIR NANOMATERIALS INC. [US/US]; 204 Edison Way, Reno, NV 89502 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only):** PROCHAZKA, Jan [CZ/US]; 91 Bell Street, Apt. #4, Reno, NV 89503 (US). SPITLER, Timothy, Malcome [US/US]; 102 Rachel Street, Fernley, NV 89408 (US). SABACKY, Bruce, J. [US/US]; 8555 Council Lane, Reno, NV 89511 (US).

(74) **Agent:** NICHOLS, G., Peter; Brinks Hofer Gilson & Li-one, P.O. Box 10087, Chicago, IL 60610 (US).

(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.

(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, 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).

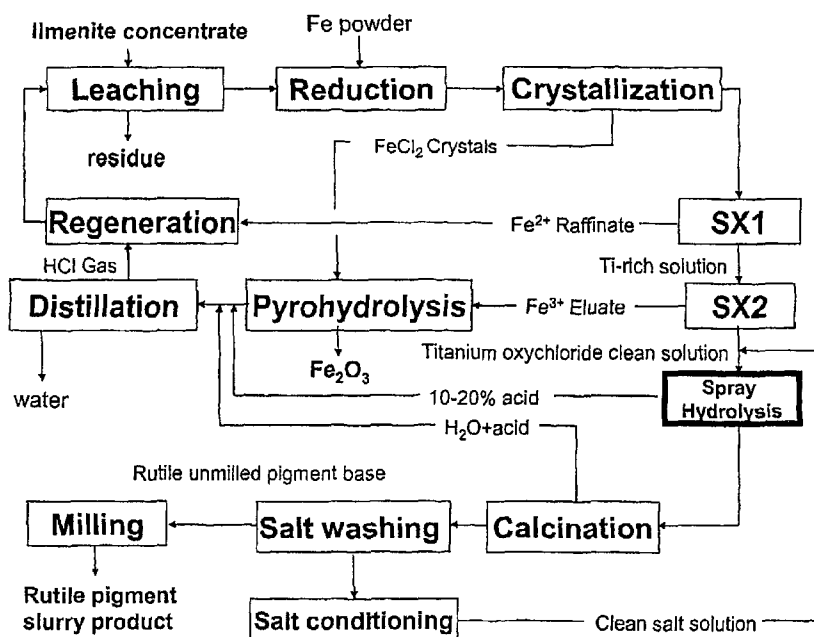
Published:
— with international search report
— with amended claims

(88) **Date of publication of the international search report:** 7 July 2005

Date of publication of the amended claims: 22 September 2005

[Continued on next page]

(54) Title: PROCESS TO MAKE RUTILE PIGMENT FROM AQUEOUS TITANIUM SOLUTIONS



(57) Abstract: A process to make rutile pigment from aqueous titanium solutions. The process involves the addition of a catalyst and is conducted under low temperature conditions using comparatively short calcinations times.



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.