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| <b>(51) International Patent Classification <sup>6</sup> :</b><br><b>C09C 1/36</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 96/15197</b><br><b>(43) International Publication Date:</b> 23 May 1996 (23.05.96)                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>(21) International Application Number:</b> PCT/US95/14789<br><b>(22) International Filing Date:</b> 1 November 1995 (01.11.95)<br><b>(30) Priority Data:</b><br>08/337,333 9 November 1994 (09.11.94) US<br>08/375,836 19 January 1995 (19.01.95) US<br><b>(71) Applicant:</b> E.I. DU PONT DE NEMOURS AND COMPANY<br>[US/US]; 1007 Market Street, Wilmington, DE 19898 (US).<br><b>(72) Inventors:</b> BETTLER, Charles, Robert; 58 East Mill Station,<br>Newark, DE 19711-7473 (US). JACOBSON, Howard,<br>Wayne; 2009 Longcome Drive, Wilmington, DE 19810-<br>3873 (US). BALOGA, Michael, R.; 109 Bay View Cove,<br>Camden, TN 38320 (US). LEWIS, Max, H.; 7 Middleton<br>Lane, Landenberg, PA 19350-9385 (US).<br><b>(74) Agents:</b> YUN, Caroline, J. et al.; E.I. du Pont de Nemours and<br>Company, Legal/Patent Records Center, 1007 Market Street,<br>Wilmington, DE 19898 (US). |           | <b>(81) Designated States:</b> AL, AM, AU, BB, BG, BR, BY, CA, CN,<br>CZ, EE, FI, GE, HU, IS, JP, KG, KP, KR, KZ, LK, LR,<br>LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU,<br>SG, SI, SK, TJ, TM, TT, UA, UZ, VN, European patent<br>(AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC,<br>NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,<br>GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, LS,<br>MW, SD, SZ, UG).<br><br><b>Published</b><br><i>With international search report.</i><br><br>86 9701952-5 |
| <b>(54) Title:</b> IMPROVED TITANIUM DIOXIDE PIGMENT COATED WITH BORIA-MODIFIED SILICA AND ALUMINA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>(57) Abstract</b><br><br>A base TiO <sub>2</sub> pigment particles bearing coatings of a boria-modified silica and alumina is disclosed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |