

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: C03B 37/005, C08K 3/00, C04B 35/00	A1	(11) International Publication Number: WO 99/54261 (43) International Publication Date: 28 October 1999 (28.10.99)
(21) International Application Number: PCT/UA98/00006 (22) International Filing Date: 20 April 1998 (20.04.98) (71)(72) Applicant and Inventor: EFANOVA, Vera Vasilyevna [UA/UA]; Apartment 284, 40a Geroyev Dnepra Street, Kiev, 254214 (UA). (74) Agent: KOUTSEVICH, Valery Ludvikovich; Apartment 81, 13 Polarnaya Street, Kiev, 254201 (UA).		(81) Designated States: AU, BG, BR, CA, CN, CZ, FI, HU, ID, IL, JP, KR, LK, LT, LV, MK, MN, MX, NZ, PL, RO, RU, SG, SI, SK, TR, US, VN, 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, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: MINERAL FLAKY FILLER FOR COMPOSITES (57) Abstract A mineral flaky filler for composites, produced by melting a starting mineral, shaping hard flaky vitreous particles from the melt, and subjecting such particles to thermochemical treatment in an oxidizing atmosphere until a crystal phase is developed. With an object of obtaining such a crystallinity-reactivity balance that would provide for quality consistant protective and ornamental coatings on large-size articles and structures preferably for use in the tropical climate and of producing a filler that would be commercially available at the step of the thermochemical treatment the flaky particles were treated at a temperature range of 680 to 850 °C until at least 12 % by weight of the crystal phase and at least 7×10^{19} spin/cm³ of reactive paramagnetic centers were developed, and followed by air cooling.		