

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C03C 25/02, C08J 5/08, H05K 1/03	A1	(11) International Publication Number: WO 99/44955 (43) International Publication Date: 10 September 1999 (10.09.99)
(21) International Application Number: PCT/US99/04056 (22) International Filing Date: 25 February 1999 (25.02.99) (30) Priority Data: 09/034,077 3 March 1998 (03.03.98) US 09/170,566 13 October 1998 (13.10.98) US (71) Applicant: PPG INDUSTRIES OHIO, INC. [US/US]; 3800 West 143rd Street, Cleveland, OH 44411 (US). (72) Inventors: NOVICH, Bruce; 1035 Highmont Road, Pittsburgh, PA 15232 (US). ROBERTSON, Walter, J.; 28 Shannopin Drive, Pittsburgh, PA 15202 (US). (74) Agents: SIMINERIO, Andrew, C.; PPG Industries, Inc., One PPG Place, Pittsburgh, PA 15272 (US) et al.		(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, SL, 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. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: IMPREGNATED GLASS FIBER STRANDS AND PRODUCTS INCLUDING THE SAME		
(57) Abstract		
The present invention provides glass fiber strands impregnated with non-abrasive solid particles which provide interstitial spaces of at least 3 micrometers between adjacent fibers within a strand which are useful for reinforcing composites.		