



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁵ : H01B 1/22	A1	(11) International Publication Number: WO 93/24934 (43) International Publication Date: 9 December 1993 (09.12.93)
(21) International Application Number: PCT/GB93/01161 (22) International Filing Date: 1 June 1993 (01.06.93) (30) Priority data: 9211500.5 30 May 1992 (30.05.92) GB (71) Applicant (for all designated States except US): FIRST CLASS SECURITIES LIMITED [-/--]; Craigmur Chambers, Road Town, Tortocla (VG). (72) Inventors; and (75) Inventors/Applicants (for US only) : SLIFKIN, Michael, Arthur [GB/GB]; 25 Moorside Road, Salford M7 0PJ (GB). HAMPSHIRE, Michael, John [GB/GB]; 3 Brookfield, Upper Hopton, Mirfield WF14 8HL (GB).		(74) Agents: DOWNEY, William, Gerrard et al.; Wilson, Gunn & Ellis, 41-51 Royal Exchange, Cross Street, Manchester M2 7BD (GB). (81) Designated States: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN, European patent (AT, BE, CH, DE, DK, ES, 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> <i>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: ELECTRICALLY CONDUCTIVE PASTES (57) Abstract <p>Pastes for use in the production of a highly electrically conductive thick film cured by ultraviolet radiation with the primary application of screen printing interconnective patterns suitable for electronic circuits comprise a chemical which contracts on polymerisation and a metal powder pigment in the form of spherical particles. The particles advantageously comprise nickel coated with gold or silver. Metal spheres enable radiation reflected from their surfaces to penetrate the matrix to promote efficient polymerisation. The sphere size is advantageously linked to the thickness of the screen. For example, the sphere size is 4 to 15 µm for a screen thickness of 25 µm.</p>		