

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number
WO 2005/000912 A3

(51) International Patent Classification⁷: **G03C 1/73**

(21) International Application Number:
PCT/US2004/017536

(22) International Filing Date: 3 June 2004 (03.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/476,042 5 June 2003 (05.06.2003) US

(71) Applicant (for all designated States except US): **ARCH SPECIALTY CHEMICALS, INC.** [—/US]; 501 Merrit 7, P.O. Box 5204, Norwalk, CT 06856-5204 (US).

(72) Inventors: **RUSHKIN, Iilya**; 6 Lois Drive, Walpole, MA 02081 (US). **NAHINI, Ahmad, A.**; 355 Shippee Road, East Greenwich, RI 02818 (US). **HOPLA, Richard**; 4 Jessica Court, Cranston, RI 02920 (US). **WATERSON, Pamela, J.**; 504 School Street, Northbridge, MA 01534 (US). **WEBER, William, D.**; 1490 Pawtucket Avenue, Rumford, RI 02916 (US).

(74) Agent: **GREELEY, Paul, D.**; Ohlandt, Greeley, Ruggiero & Perle, L.L.P., 10th Floor, One Landmark Square, Stamford, CT 06901-2682 (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, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
18 August 2005

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.

(54) Title: NOVEL POSITIVE PHOTSENSITIVE RESIN COMPOSITIONS

(57) Abstract: An end-capped polybenzoxazole precursor having acid labile functional groups, positive working photosensitive compositions thereof and use of the compositions for producing heat resistant relief images on substrates.

WO 2005/000912 A3