

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/094534 A1

(51) International Patent Classification⁷: **C09B 67/08**,
C09D 11/00

(21) International Application Number:
PCT/US2004/011191

(22) International Filing Date: 12 April 2004 (12.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/414,585 16 April 2003 (16.04.2003) US

(71) Applicant (for all designated States except US): **CABOT CORPORATION** [US/US]; Two Seaport Lane, Suite 1300, Boston, MA 02210-2019 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SHAKHNOVICH, Alexander, I.** [US/US]; 15 1/2 S. Chelmsford Road, Westford, MA 01886 (US).

(74) Agent: **LANDO, Michelle, B.**; Cabot Corporation, 157 Concord Road, Billerica, MA 01821-7001 (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, 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

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: MODIFIED ORGANIC COLORANTS AND DISPERSIONS, AND METHODS FOR THEIR PREPARATION

(57) Abstract: The present invention relates to methods of preparing modified organic colorant dispersions comprising the step of combining, in any order, i) an organic colorant; ii) an hydroxide reagent; and iii) an aqueous medium, to form a modified organic colorant dispersion. The methods further comprises a particle size reduction step. These steps can occur in either order. The organic colorant comprises at least one organic species having at least one ester group. Modified organic colorants and inkjet ink compositions are also disclosed.

WO 2004/094534 A1