

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 March 2007 (22.03.2007)

PCT

(10) International Publication Number
WO 2007/033075 A3

(51) International Patent Classification:
C07C 39/06 (2006.01)

(21) International Application Number:
PCT/US2006/035303

(22) International Filing Date:
12 September 2006 (12.09.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/716,283 12 September 2005 (12.09.2005) US

(71) Applicant (for all designated States except US): **FUJIFILM ELECTRONIC MATERIALS U.S.A., INC.** [US/US]; 80 Circuit Drive, North Kingstown, RI 02852 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TEFF, Daniel, J.** [US/US]; 2084 W. Longhorn Drive, Chandler, AZ 85248 (US). **CHAGOLLA, John, L.** [US/US]; 1635 E. Glade Avenue, Mesa, AZ 85204 (US).

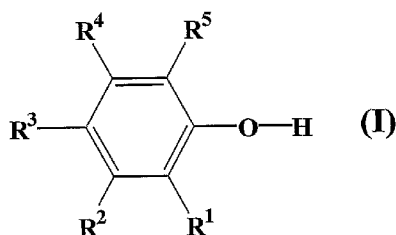
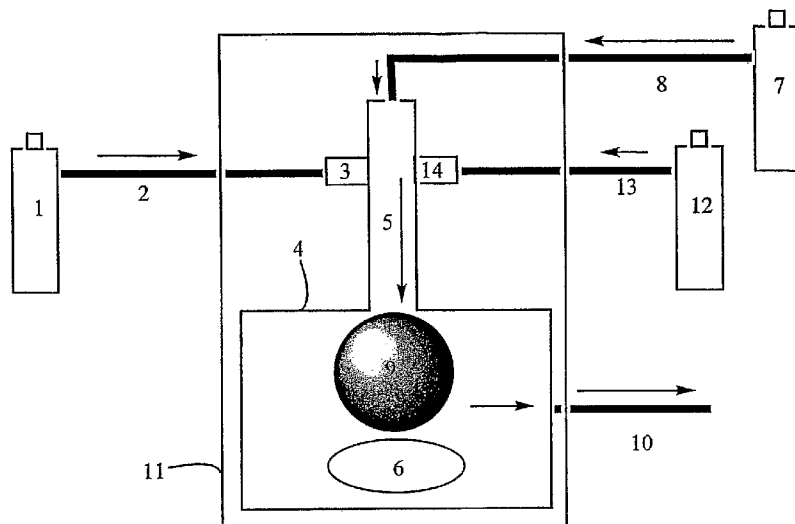
(74) Agent: **GREELEY, Paul, D.**; OHLANDT, GREELEY, RUGGIERO & PERLE, LLP, One Landmark Square 10th Floor, Stamford, CT 06901-2682 (US).

(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, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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, IS, IT, LT, LU, LV, MC, NL, PL, PT,

[Continued on next page]

(54) Title: ADDITIVES TO PREVENT DEGRADATION OF CYCLIC ALKENE DERIVATIVES



(57) Abstract: A stabilized cyclic alkene composition comprising one or more cyclic alkenes, and at least one antioxidant compound having the formula (I), wherein R¹ through R⁵ can each independently be H, OH, C₁-C₈ linear, branched, or cyclic alkyl, C₁-C₈ linear, branched, or cyclic alkoxy or substituted or unsubstituted aryl, and wherein the antioxidant compound is present in an amount between 1 ppm and 200 ppm, and wherein said composition is purged with at least one inert gas after said composition is introduced to a container intended for storage or shipping of said composition. A method for forming a layer of carbon-doped silicon oxide on a substrate, which uses the stabilized alkene composition and a silicon containing compound.



RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:

14 June 2007

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

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.