

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 July 2011 (07.07.2011)

PCT

(10) International Publication Number
WO 2011/082059 A1

(51) International Patent Classification:
A23B 7/152 (2006.01) *B65D 81/20* (2006.01)
A23B 7/154 (2006.01)

(21) International Application Number:
PCT/US2010/061779

(22) International Filing Date:
22 December 2010 (22.12.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/284,899 28 December 2009 (28.12.2009) US
61/425,479 21 December 2010 (21.12.2010) US

(71) Applicant (for all designated States except US): **ROHM AND HAAS COMPANY** [US/US]; 100 Independence Mall West, 7th Floor, Philadelphia, PA 19106 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MIR, Nazir** [US/US]; 20 Lynn Court, North Brunswick, NJ 08902 (US). **HOLCROFT, Dierdre** [US/US]; 2827 Zamora Lane, Davis, CA 95618 (US). **JAMES, William** [US/US]; 1235 Park Avenue, Hatfield, PA 19440 (US). **URENA-PADILLA, Alvaro** [CR/CR]; Urbanización Sierras de la Union, Urbanización Sierras de la Union, Casa 29 B, Casa 29 B, La Unión, Tres Ríos, Cartago, 30103 (CR).

(74) Agent: **CRIMALDI, Kenneth**; ROHM AND HAAS COMPANY, 100 Independence Mall West, Philadelphia, PA 19106 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: METHOD OF HANDLING BANANAS

(57) Abstract: There is provided a method of storing bananas comprising the steps of (a) exposing said bananas to an atmosphere that contains one or more ethylene-active compound, and (b) after said step (a), exposing said bananas to an atmosphere that contains one or more cyclopropene compound while said bananas have color stage 2 to 6 on the seven-stage scale, wherein said bananas are kept in a modified-atmosphere package for a time period that includes at least a time interval that lasts for 1 hour, wherein said time interval begins between the conclusion of said step (b) and 72 hours from the conclusion of said step (b), and wherein said modified-atmosphere package is constructed so that the transmission rate of carbon dioxide for the entire package (PCT) is from 2,400 to 120,000 cubic centimeters per day per kilogram of bananas.



WO 2011/082059 A1