



- (51) International Patent Classification:
C03C 3/087 (2006.01) *C03C 4/02* (2006.01)
- (21) International Application Number:
PCT/US2013/063199
- (22) International Filing Date:
3 October 2013 (03.10.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/666,629 1 November 2012 (01.11.2012) US
- (71) Applicant: OWENS-BROCKWAY GLASS CONTAINER INC. [US/US]; One Michael Owens Way, Perrysburg, OH 43551 (US).
- (72) Inventors: **ORDWAY, Edward**; 608 Pine Valley Lane #201, Tledo, OH 43615 (US). **HOWSE, Terence, K.**; 46 Cheryl Crescent, Ferntree Gulley, Victoria, 3156 (AU). **BAKER, Daniel**; 9600 Deer Trail, Haslett, MI 48840 (US). **BARTON, Stephen**; 11512 Mendoleine Road, Dansville, NY 14437 (US). **CLICK, Carol, A.**; P.O. Box 1055, Corning, NY 14437 (US).
- (74) Agent: **SMITH, Susan, L.**; Owens-illinois Inc., One Michael Owens Way, Three O-I Plaza, Legal Patents, Perrysburg, OH 43551 (US).

[Continued on next page]

(54) Title: COLORED GLASS CONTAINERS AND METHODS OF PRODUCING THEM

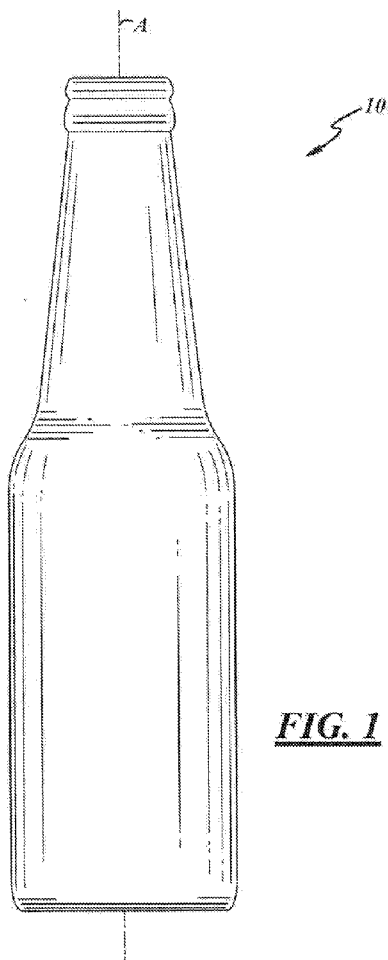


FIG. 1

(57) Abstract: Latent colorant, material compositions, soda-lime-silica glass compositions, and related methods of manufacturing: color-strikable glass containers. The latent colorant material compositions: may be introduced, into a plurality of base glass compositions having redox numbers in the range of -40 to +20 to produce color-strikable glass compositions and color-strikable glass containers. The latent colorant material compositions introduced into the base glass compositions include a mixture of cuprous oxide (Cu_2O), stannous oxide (SnO), bismuth oxide (Bi_2O_3) and carbon (C). After formation, the color-strikable glass containers; may be heat-treated to strike red or black therein.





(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, BN, 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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

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