



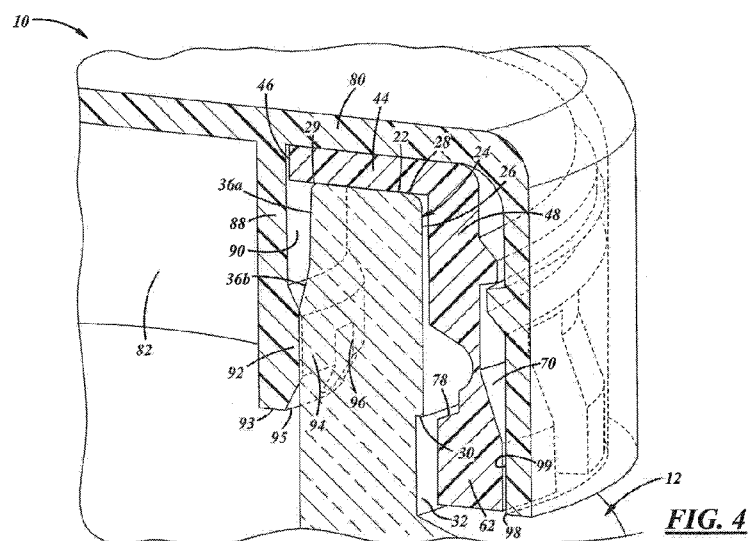
- (51) **International Patent Classification:**
B65D 1/02 (2006.01) *B65D 51/16* (2006.01)
B65D 41/02 (2006.01)
- (21) **International Application Number:**
PCT/US2013/058939
- (22) **International Filing Date:**
10 September 2013 (10.09.2013)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/649,171 11 October 2012 (11.10.2012) US
- (71) **Applicant:** OWENS-BROCKWAY GLASS CONTAINER INC. [US/US]; One Michael Owens Way, Perrysburg, OH 43551 (US).
- (72) **Inventors:** LONSWAY, Michael, J.; 2325 Gibley Park, Toledo, OH 43517 (US). CHISHOLM, Brian, J.; 6131 White Eagle W., Sylvania, OH 43560 (US).
- (74) **Agent:** SMITH, Susan, L.; Owens-Illinois Inc., One Michael Owens Way, Three O-I Plaza, Legal Patents, Perrysburg, OH 43551 (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, 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))

(54) **Title:** CONTAINER, CLOSURE, AND PACKAGE



- (57) **Abstract:** A closure inner shell (40) includes an annular skirt (48) extending axially from a base wall (44) and having an external thread segment (60). The base wall has a central passage (46) and the skirt has circumferentially spaced petals (62). A closure outer shell (42) includes a vented plug seal (82) extending axially through the central passage of the inner shell, and an annular outer skirt (84) to engage the petals of the inner shell and having an internal thread segment (86) for threaded engagement with the external thread segment of the inner shell. A container (12) includes a container neck bead (24) for engagement with the petals, an inner annular sealing surface (34) for engagement with the plug seal, and an inner annular relief (36) to cooperate with the vented plug seal to establish a vent path.