

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
14 February 2019 (14.02.2019)



(10) International Publication Number
WO 2019/032636 A1

- (51) International Patent Classification:
B65D 81/26 (2006.01) **B65D 53/02** (2006.01)
- (21) International Application Number:
PCT/US2018/045697
- (22) International Filing Date:
08 August 2018 (08.08.2018)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
62/542,358 08 August 2017 (08.08.2017) US
62/542,391 08 August 2017 (08.08.2017) US
- (71) Applicant: **CSP TECHNOLOGIES, INC.** [US/US]; 960 West Veterans Boulevard, Auburn, Alabama 36832 (US).
- (72) Inventors: **FREEDMAN, Jonathan R.**; 2213 Brenton Land, Auburn, Alabama 36830 (US). **HUBER, Donald Lee**; 2005 Janabrooke Lane, Auburn, Alabama 36830 (US). **TIFFT, Brian**; 1789 Piedmont Drive, Auburn, Alabama 36830 (US). **LUCAS, JR., Franklin Lee**; 2796 Lakeview Terrace, Opelika, Alabama 36801 (US).
- (74) Agent: **VOGELBACKER, Mark T.**; CSP Technologies, Inc., c/o Eckert Seamans Cherin & Mellott, LLC, Two Liberty Place, 50 South 16th Street, 22nd Floor, Philadelphia, Pennsylvania 19102 (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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, 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: MOISTURE TIGHT CONTAINERS AND METHODS OF MAKING AND USING THE SAME

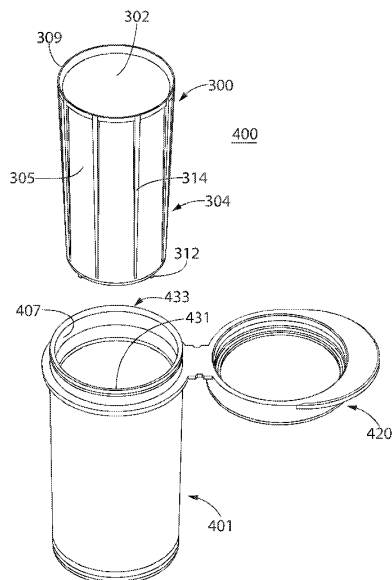


FIG. 19

(57) Abstract: A method for storing and preserving moisture sensitive products includes providing a moisture tight container (400) having an insert (300) made from a desiccant entrained polymer that is less than 3.25g in mass, disposing a plurality of moisture sensitive products into the interior compartment when the container is in the open position, and moving the container into the closed position, thereby creating a moisture tight seal between the lid (420) and the container body (401). The container provides a shelf life to the moisture sensitive products of at least 12 months. The container, when in the closed position, has a moisture vapor transmission rate, at ambient conditions of 30°C and 75% relative humidity (RH), of less than 500 | ig/day.



WO 2019/032636 A1