

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 July 2023 (13.07.2023)



(10) International Publication Number
WO 2023/133591 A1

(51) International Patent Classification:

B65D 5/36 (2006.01) B65D 5/46 (2006.01)
A47F 5/11 (2006.01)

(21) International Application Number:

PCT/US2023/060399

(22) International Filing Date:

10 January 2023 (10.01.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/361,594 10 January 2022 (10.01.2022) US

(72) Inventor; and

(71) Applicant: MOREIRA, Daniel [US/US]; 883 Livingston Rd., Elizabeth, New Jersey 07090 (US).

(74) Agent: ROSENTHAL, Larry; 316 East Broad St., Westfield, New Jersey 07090 (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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,

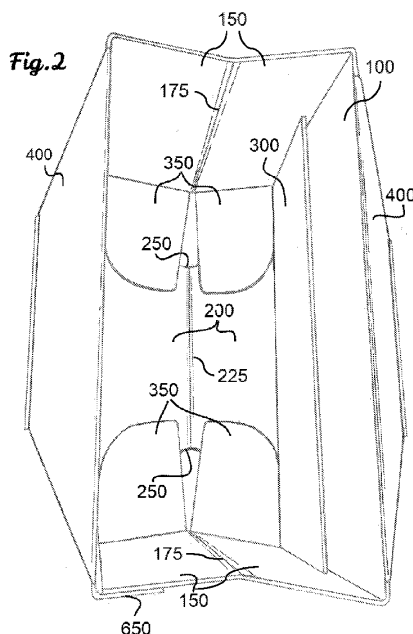
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, 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, ME, 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).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

(54) Title: COLLAPSIBLE BOX



(57) Abstract: A collapsible box is provided that facilitates folding of the box into a flattened configuration having a profile the same size as the sides of the box. The box includes two main face panels, two side panels each having a vertical crease, a lower bottom panel having a longitudinal crease and cutouts adjacent to the side panels, bottom flaps attached to the lower edges of the side panels, and an upper bottom panel affixed to the lower edge of a main face panel that folds over the lower bottom panel and bottom flaps to provide structural rigidity. The box can be easily collapsed by raising the upper bottom panel and bottom flaps, and pushing the creases on the side panels and lower bottom panel inward. The box can optionally be formed from a single blank of cardboard or similar material, and can optionally be provided with handles or a lid.

WO 2023/133591 A1

[Continued on next page]

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*