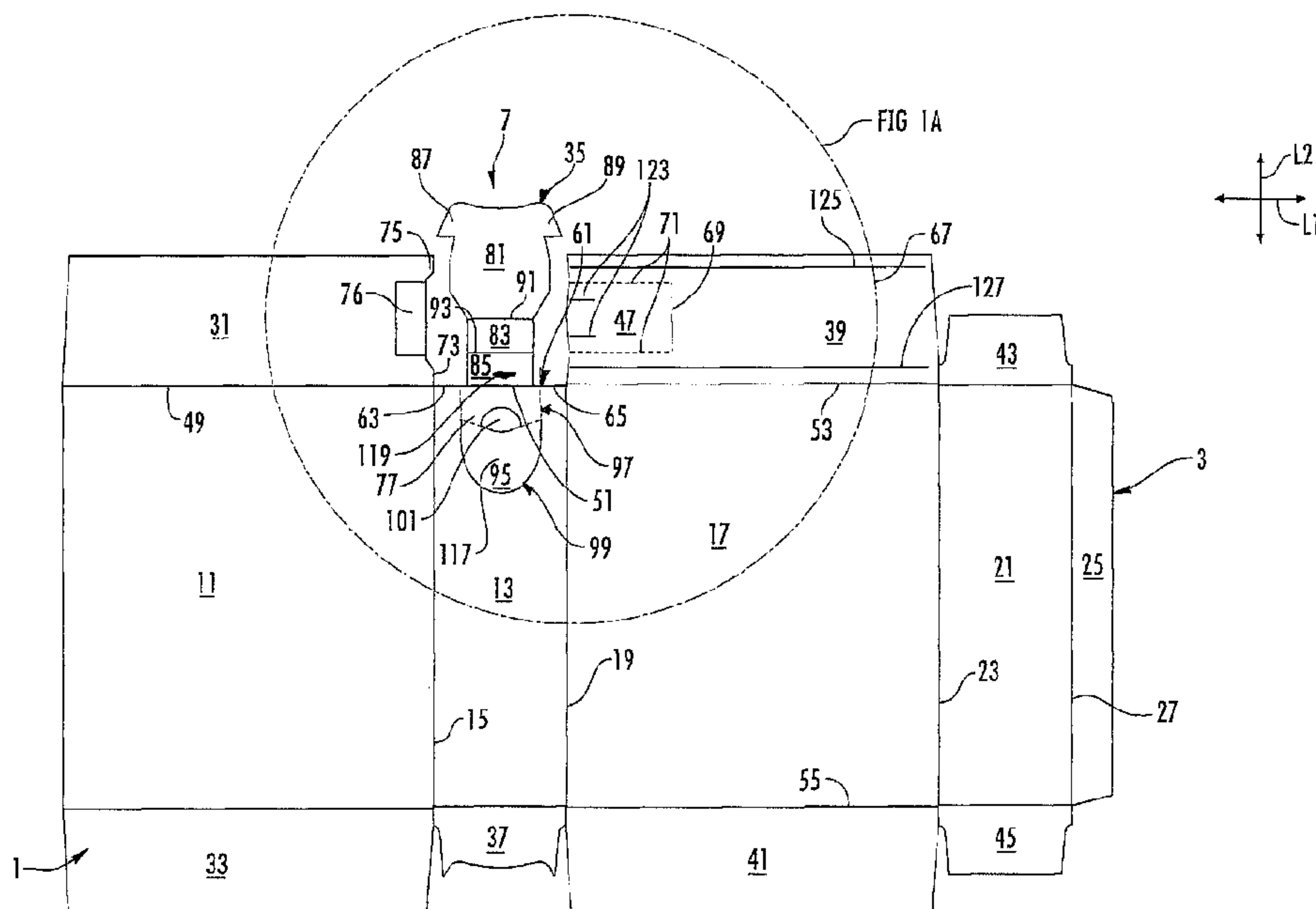




(86) **Date de dépôt PCT/PCT Filing Date:** 2012/01/27
(87) **Date publication PCT/PCT Publication Date:** 2012/08/02
(45) **Date de délivrance/Issue Date:** 2016/05/24
(85) **Entrée phase nationale/National Entry:** 2013/06/21
(86) **N° demande PCT/PCT Application No.:** US 2012/022872
(87) **N° publication PCT/PCT Publication No.:** 2012/103422
(30) **Priorité/Priority:** 2011/01/28 (US61/462,092)

(51) **Cl.Int./Int.Cl.** **B65D 5/74** (2006.01),
B65D 5/02 (2006.01), **B65D 5/54** (2006.01)
(72) **Inventeur/Inventor:**
FITZWATER, KELLY R., US
(73) **Propriétaire/Owner:**
GRAPHIC PACKAGING INTERNATIONAL, INC., US
(74) **Agent:** MACRAE & CO.

(54) **Titre : CARTON DOTE D'UN DISPOSITIF D'OUVERTURE COULISSANT**
(54) **Title: CARTON WITH SLIDABLE OPENER**



(57) **Abrégé/Abstract:**

A carton for containing a product. The carton comprises a plurality of panels that extends at least partially around an interior of the carton. The plurality of panels comprises a first end panel, a first side panel, a second end panel, and a second side panel. At least one end flap is respectively foldably connected to a respective panel of the plurality of panels. The at least one end flap at least partially forms a closed end of the carton. An opener is positionable between a closed position substantially preventing removal of the product from the interior of the carton through a dispenser opening in one of the first end panel and the second end panel, and an open position allowing removal of the product from the interior of the carton through the dispenser opening.



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

(19) World Intellectual Property

Organization

International Bureau



WIPO | PCT



(10) International Publication Number

WO 2012/103422 A3

(43) International Publication Date
2 August 2012 (02.08.2012)

(51) International Patent Classification:

B65D 5/74 (2006.01) B65D 5/54 (2006.01)
B65D 5/02 (2006.01)

(21) International Application Number:

PCT/US2012/022872

(22) International Filing Date:

27 January 2012 (27.01.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/462,092 28 January 2011 (28.01.2011) US

(71) Applicant (for all designated States except US): **GRAPH-
IC PACKAGING INTERNATIONAL, INC.** [US/US];
814 Livingston Court, Marietta, GA 30067 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **FITZWATER, Kelly,
R.** [US/US]; 25 Kendall Street, Lakewood, CO 80226
(US).

(74) Agent: **CLAERBOUT, Andrew, N.**; Womble Carlyle
Sandridge & Rice, PLLC, P.O. Box 7037, Atlanta, GA
30357-0037 (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, QA, RO, RS, RU, RW, 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.

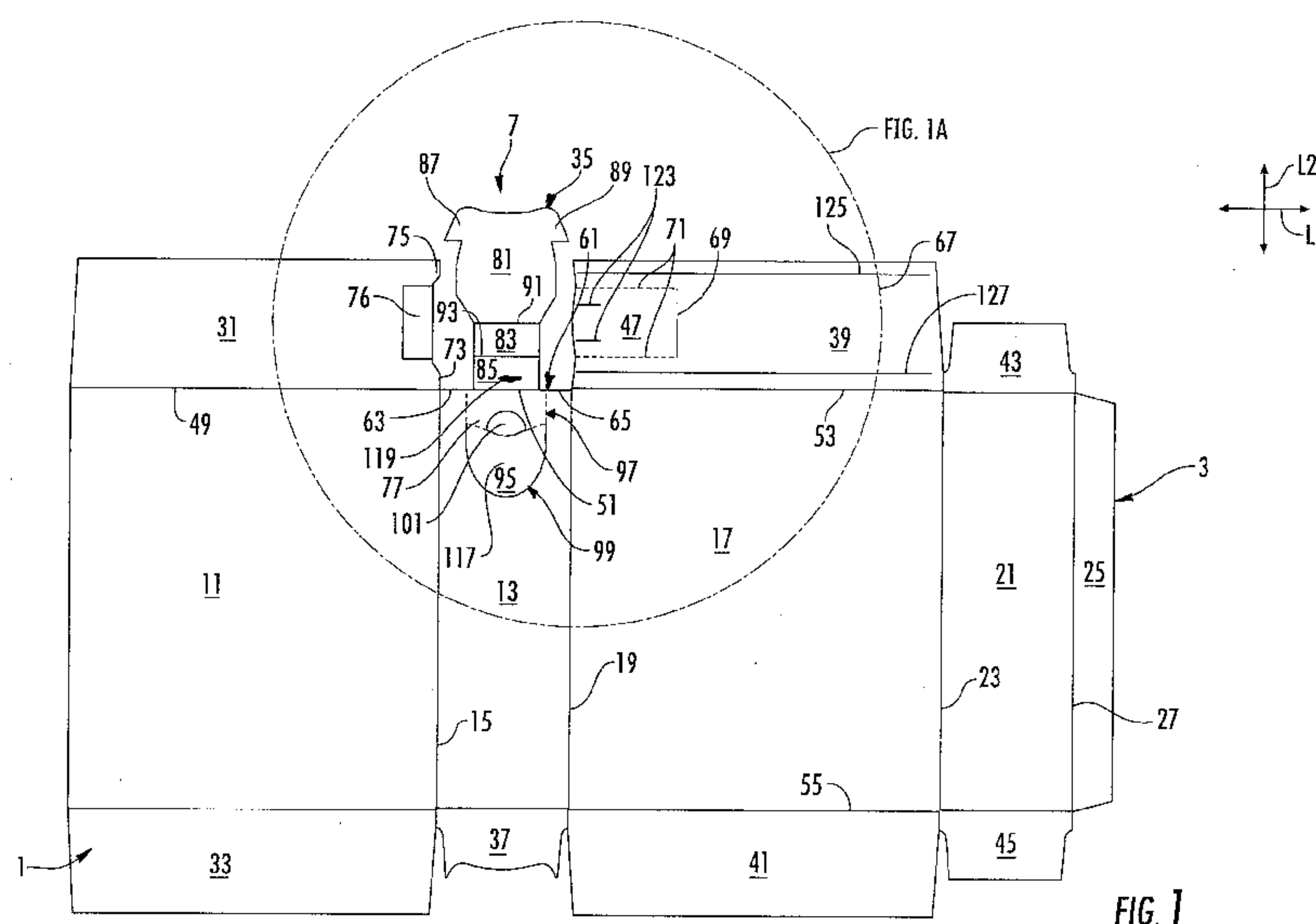
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, 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).

Declarations under Rule 4.17:

- 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))

[Continued on next page]

(54) Title: CARTON WITH SLIDABLE OPENER



(57) Abstract: A carton for containing a product. The carton comprises a plurality of panels that extends at least partially around an interior of the carton. The plurality of panels comprises a first end panel, a first side panel, a second end panel, and a second side panel. At least one end flap is respectively foldably connected to a respective panel of the plurality of panels. The at least one end flap at least partially forms a closed end of the carton. An opener is positionable between a closed position substantially preventing removal of the product from the interior of the carton through a dispenser opening in one of the first end panel and the second end panel, and an open position allowing removal of the product from the interior of the carton through the dispenser opening.

WO 2012/103422 A3



Published:

(88) Date of publication of the international search report:

1 November 2012

- *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))*

CARTON WITH SLID ABLE OPENER

[0001]

[0002]

BACKGROUND OF THE DISCLOSURE

[0003] The present disclosure generally relates to cartons having a slidable opener.

SUMMARY OF THE DISCLOSURE

[0004] In general, one aspect of the disclosure is generally directed to a carton for containing a product. The carton comprises a plurality of panels that extends at least partially around an interior of the carton. The plurality of panels comprises a first side panel, a first end panel, a second side panel, and a second end panel. An opener is in at least one of the first end panel and the second end panel and is slidably moveable between an open position and a closed position.

[0005] In another aspect, the disclosure is generally directed to a carton for containing a product. The carton comprises a plurality of panels that extends at least partially around an interior of the carton. The plurality of panels comprises a first end panel, a first side panel, a second end panel, and a second side panel. At least one end flap is respectively foldably connected to a respective panel of the plurality of panels. The at least one end flap at least partially forms a closed end of the carton. An opener is positionable between a closed position substantially preventing removal of the product from the interior of the carton through a dispenser opening in one of the first end panel and the second end panel, and an open position allowing removal of the product from the interior of the carton through the dispenser opening.

BRIEF DESCRIPTION OF THE DRAWINGS

- [0010] Fig. 1 is a plan view of an exterior surface of a blank for forming a carton of a first embodiment of the disclosure.
- [0011] Fig. 1A is an enlarged portion of Fig. 1.
- [0012] Fig. 2 is a plan view of the exterior surface of the blank of Fig. 1, the blank being partially formed into the carton and having a liner attached thereto.
- [0013] Fig. 3 is a plan view of an interior surface of the blank and the liner.
- [0014] Fig. 4 is a top view of the partially formed carton of the first embodiment.
- [0015] Figs. 5 and 6 are top views of the carton of the first embodiment further formed.
- [0016] Fig. 7 is a top view of the carton of the first embodiment with an opener in a closed position.
- [0017] Figs. 8-11 are various views showing the opener being moved from the closed position to an open position.
- [0018] Fig. 12 is an end view showing the opener reclosed or returned to the closed position.
- [0019] Fig. 13 is a plan view of an exterior surface of a blank for forming a carton of a second embodiment of the disclosure.
- [0020] Fig. 14 is a top perspective view of the carton of the second embodiment with an opener in the closed position.
- [0021] Figs. 15-17 are various views showing the opener of the carton of the second embodiment being moved to the closed position.
- [0022] Corresponding parts are designated by corresponding reference numbers throughout the drawings.

