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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
14 May 2010 (14.05.2010)

PCT

(10) International Publication Number
WO 2010/054043 A3

(51) International Patent Classification:
B65D 5/74 (2006.01) *B65D 5/54* (2006.01)
B65D 5/70 (2006.01) *B65D 83/00* (2006.01)

(21) International Application Number:
PCT/US2009/063345

(22) International Filing Date:
5 November 2009 (05.11.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/198,392 5 November 2008 (05.11.2008) US

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

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **HOUSE, Richard, F.** [US/US]; 39W118 Weaver Lane, Geneva, IL 60134 (US).

(74) Agents: **ISAF, Louis, T.** et al.; 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, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, 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 OPENER

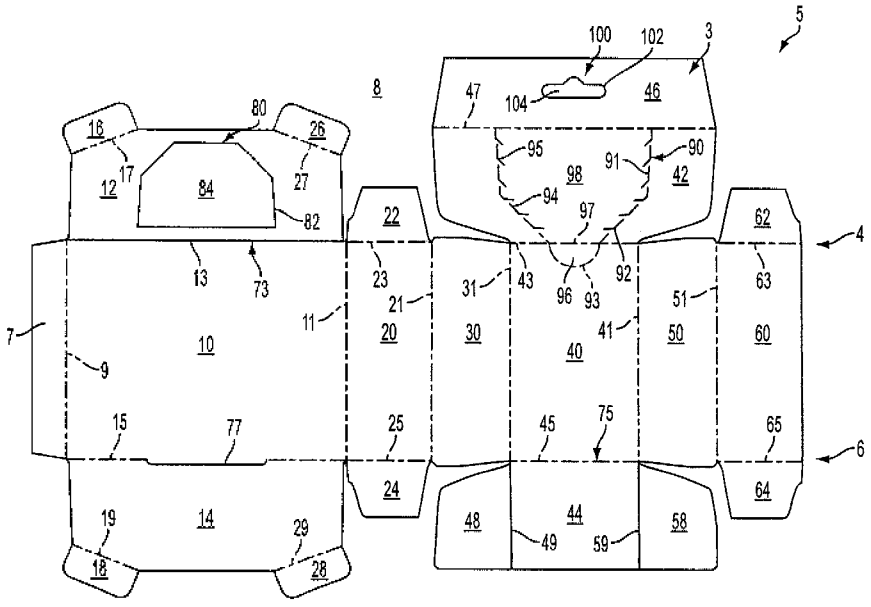


FIG. 1

(57) Abstract: A blank, carton, or package that includes a dispensing flap is described. The dispensing flap is formed in an end flap and covers an opening formed in another end flap when the carton is formed. The dispensing flap is detachable along a pattern of tear lines and the dispensing flap can be hinged to expose the opening and allow contents of the carton to be dispensed from the opening. A tear tab can be included to initiate detachment of the dispensing flap along the tear line pattern. A hanging flap can be provided to hang the carton from a vertical surface. End flaps and tuck-in flaps can be provided at a first end and a second end of the blank to secure the ends of the carton.

WO 2010/054043 A3

WO 2010/054043 A3

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))*

(88) Date of publication of the international search report:
26 August 2010

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/063345

A. CLASSIFICATION OF SUBJECT MATTER

B65D 5/74(2006.01)i, B65D 5/70(2006.01)i, B65D 5/54(2006.01)i, B65D 83/00(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B65D 5/74; B65D 5/355; B65D 5/42; B65D 5/486; B65D 5/489; B65D 5/52; B65D 5/54; B65D 5/66

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: carton,blank,opener

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2005-088975 A (DAINIPPON PRINTING CO LTD) 2005.04.07 See the pages 3-5, claim 1 and figures 1-3.	1-25
A	JP 11-321848 A (DAINIPPON PRINTING CO LTD) 24 November 1999 See the pages 3-4, claim 1 and figures 1-2.	1-25
Y	JP 2000-085755 A (TOPPAN PRINTING CO LTD) 28 March 2000 See the pages 2-3, claim 1 and figures 1-4.	1-25
A	JP 2000-507531 A (-) 20 June 2000 See the pages 3-4, claim 1 and figures 1-2.	1-25

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
02 JULY 2010 (02.07.2010)	**05 JULY 2010 (05.07.2010)**
Name and mailing address of the ISA/KR Korean Intellectual Property Office Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer CHOI, Jeen Seok Telephone No. 82-42-481-8550

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/063345

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2005-088975 A	07.04.2005	JP 4306383 B2	29.07.2009
JP 11-321848 A	24.11.1999	None	
JP 2000-085755 A	28.03.2000	JP 3680570 B2	10.08.2005
JP 2000-507531 A	20.06.2000	EP 0892741 A1	25.07.2001
		EP 0892741 A1	27.01.1999
		EP 0892741 B1	28.11.2001
		EP 1132305 A2	12.09.2001
		EP 1132305 A3	19.09.2001
		EP 1132305 B1	23.06.2004
		US 6050416 A1	18.04.2000
		WO 97-36792 A1	09.10.1997