

July 5, 1938.

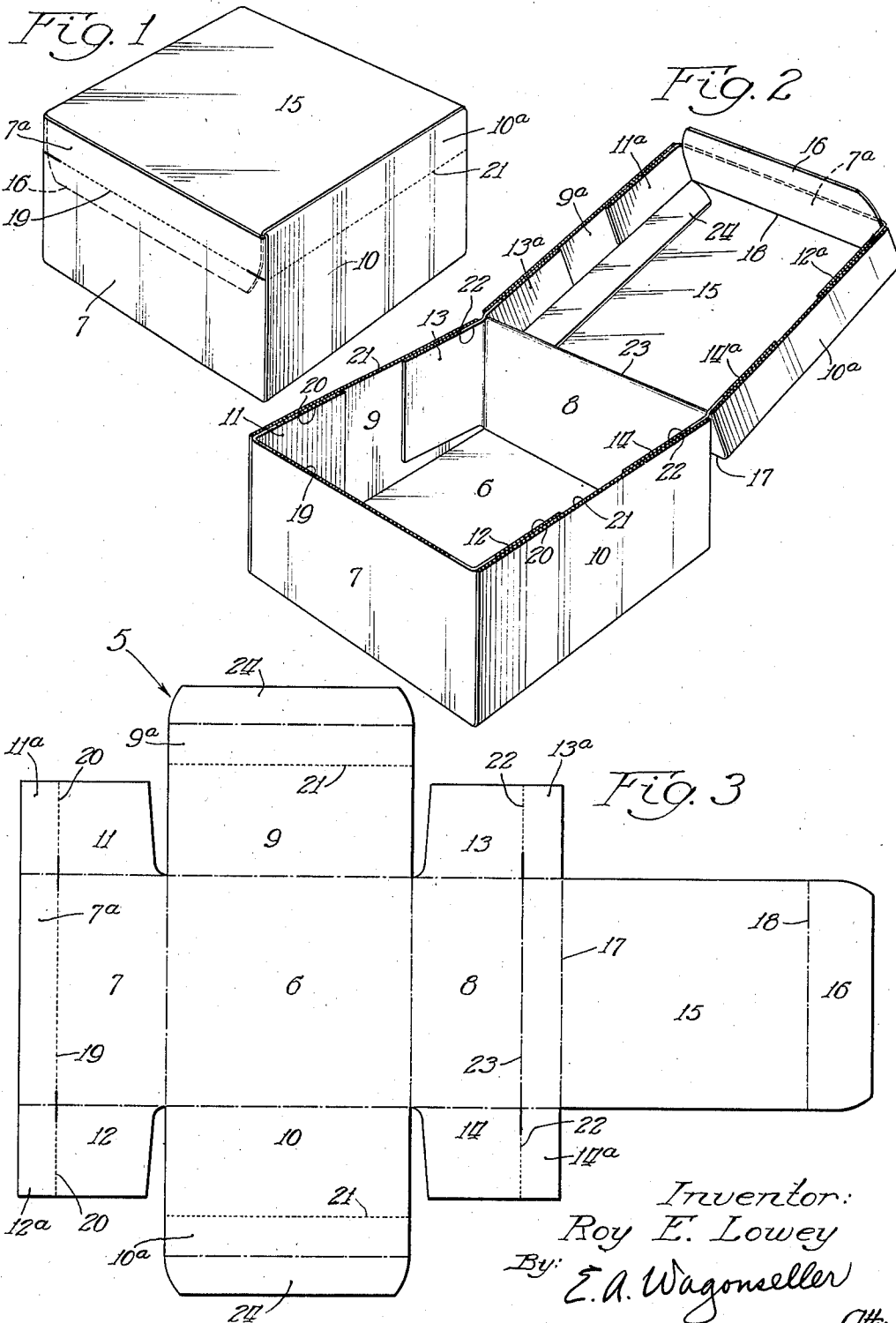
R. E. LOWEY

2,122,885

CONTAINER

Filed Aug. 21, 1936

2 Sheets-Sheet 1



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Fig. 4

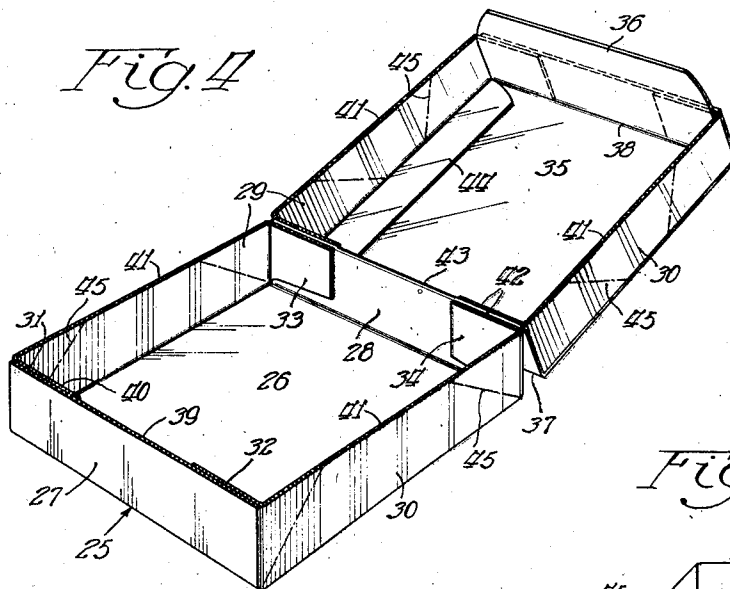


Fig. 5

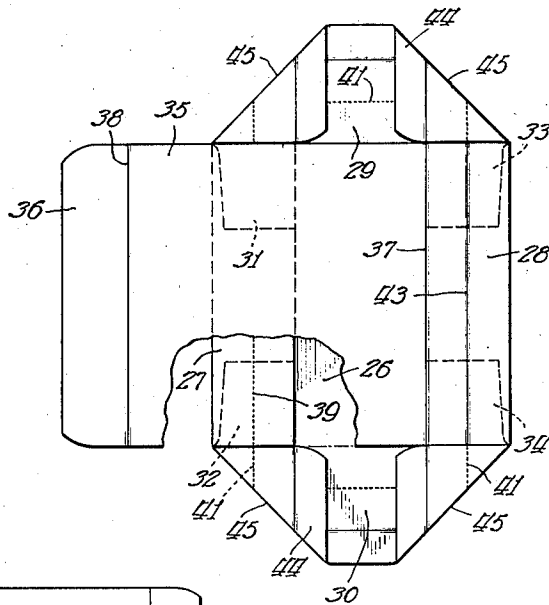
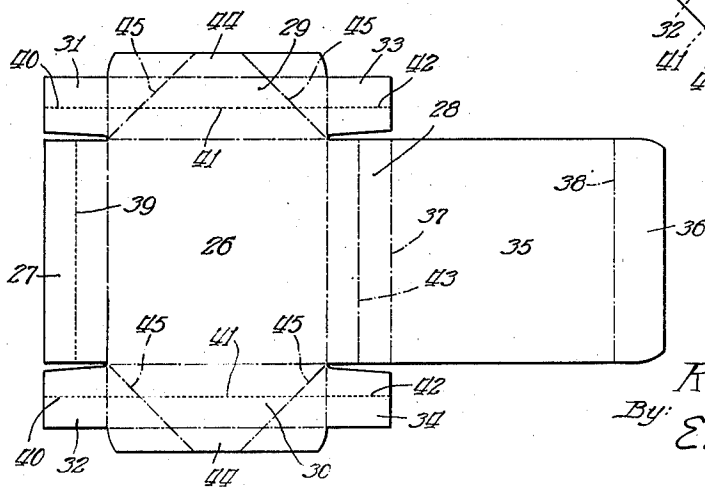


Fig. 6



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UNITED STATES PATENT OFFICE

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CONTAINER

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3 Claims. (Cl. 229—33)

The present invention relates to containers and more particularly to folding cartons which are adapted to be readily set up to enclose and retain articles and which may be conveniently opened for withdrawal of articles therefrom without destroying the effectiveness of the container as to the remainder of the contents therewithin.

One object of the invention is to provide a carton which may be readily sealed on conventional sealing machines and thereafter opened by ripping the side walls along a weakened line thereby to form a tray-like cover portion hinged along a line disposed intermediate the upper and lower edges of the rear wall of the carton.

Other objects of the invention are to provide a strong, sturdy and conveniently openable container in a relatively simple and economical form.

To these and other ends the invention resides in certain improvements and combinations of parts, all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings:

Fig. 1 is a perspective view of the carton made in accordance with the present invention showing such carton in set-up condition as it appears after being filled and sealed by the packer;

Fig. 2 is a perspective view of the carton as it appears after being opened for the removal of the contents;

Fig. 3 is a view of the carton blank.

Fig. 4 is a perspective view of a modified form of the invention;

Fig. 5 is a view of this form of the container in a collapsed condition; and

Fig. 6 is a view of the blank for this form of the invention.

The present invention provides a convenient form of carton which finds advantageous use for the packaging of articles such as small packs of cigarettes where it is desired to provide a convenient and attractive container in which the individual packs of cigarettes or other articles are retained in a readily accessible manner, as for example, on a shelf or table. The present carton permits a number of small packages to be readily enclosed and retained free from dust until sold by the retailer, after which the carton may be readily opened in the home where the individual packages may be removed from time to time, as desired. Due to the weakened line formed intermediate the top and bottom edges of the carton, opening the carton along such weakened line will form a tray-like lower portion and a flanged

cover portion arranged to freely swing on the lower wall of the lower tray portion. In this manner, a relatively sturdy container is formed which has a generally smooth exterior and is thereby well adapted to receive an attractive printing design thereon simulating the ordinary small wood chests that are employed to contain small articles, such as cigarette packs and similarly packaged commodities.

Referring more particularly to the drawings, the carton is formed from a blank of folding boxboard, indicated as a whole at 5. The bottom panel 6 carried at its edges a front wall panel 7, rear wall panel 8 and side wall panels 9 and 10, each of which are defined from the bottom panel by the score lines indicated.

The front, rear and side walls are secured together by attaching flaps, indicated at 11, 12, 13, and 14, which, in the present instance, are located on the lateral edges of the respective front and rear walls 7 and 8.

A top closure panel 15 is preferably provided as an extension on the rear wall 8. This top is provided with a flap 16. The rear wall 8, the top closure panel 15 and the flap 16 are defined from each other by the score lines 17 and 18.

In order to provide for the formation of a flanged cover upon opening the filled carton, the front wall, the side walls and the front wall attaching flaps are provided with lines of perforations, or otherwise weakened lines, as indicated at 19, 20, 20; 21, 21; and 22, 22. When the container has been set up as indicated in Fig. 1, it may be opened by running some instrument, such as a letter opener or thumb nail, along the weakened lines until the top portion of the container has been entirely broken loose from the lower portion, whereupon the cover thus formed, as indicated at Fig. 2 may be swung back along the hinge line 23 formed by scoring the rear wall 8.

For the purpose of forming a closed joint along the lateral edges of the top panel 15, flaps 24, 24 are preferably provided on the side walls 9 and 10 which flaps are secured, as by means of adhesive, to the underside of the top panel 15. See particularly Fig. 2.

The flap 16 on the front edge of the top panel 15 is preferably formed of such a length as to extend beyond the severed portion 7a on the front wall whereby the flap 16 will overlap the inner surface of the lower section of the front wall panel 7. The extremities of the exposed edge portion of the flap 16 are preferably rounded to facilitate insertion of this flap within the lower

portion of the carton. This flap also serves to prevent undue lateral shifting movement of the flanged cover portion when the cover is in closed position.

5 In setting up and packing the carton, the walls 7 and 8 are first moved to upright position, after which the attaching flaps 11, 12, 13, and 14 are folded inwardly at right angles thereto. The side walls 9 and 10 are then raised to upright position and, at this time, or prior thereto, adhesive is applied so as to cause the entire portion of the attaching flaps to adhere to the walls 9 and 10. It will be noted that care should be taken to cause adherence of the portions 11a and 13a with the portion 9a and, similarly, cause adherence of the portions 12a and 14a with the portion 10a, this being necessary to properly form the flanged cover by severing walls along the weakened lines.

The carton, as thus far set up, is now ready for the reception of its contents. When the desired articles have been packed within the carton the next step is to fold inwardly the flaps 24, 24 and to apply adhesive on the upper surface of said flaps so that adherence will be effected between them and the underside of the panel 15. Adhesive is also applied to either the outer surface of the flap 16 or the inner surface of the portion 7a of the front wall 7 to effect adherence between this portion 7a and the flap. Care is exercised not to apply any adhesive to the flap 16 which is not overlapped by the portion 7a of the front wall 7 as adherence between the flap 16 and the lower portion of the front wall 7 would prevent ready opening of the carton.

35 The container, as thus formed, is illustrated at Fig. 1.

As mentioned before, the container is opened by breaking the front and side walls along the perforated lines, whereupon the container may be opened as indicated at Fig. 2.

40 In the modified form of the invention illustrated in Figs. 4, 5, and 6, the container as a whole is indicated at 25 and comprises a bottom panel 26, a front wall panel 27, rear wall panel 28 and side wall panels 29 and 30. As in the previously described form, attaching flaps 31, 32, 33, and 34 are provided on side walls 29 and 30 for the purpose of attaching the front, rear and side walls together.

50 A top closure panel 35 extends from the outer edge of rear wall panel 28, this flap 35 being formed with an extension flap 36 on its outer edge. Score lines 37 and 38 separate the top panel 35 from the panel 28 and the flap 36.

55 In order to provide for the formation of a flanged cover upon opening a filled carton, the front wall, the side walls and the front wall attaching flaps are provided with lines of perforations or similarly weakened lines, as indicated at 39, 39; 40, 40; 41, 41; and 42, 42. When the container has been set up as indicated in Fig. 4, it may be opened by running an instrument along the weakened lines until the top portion of the container has been entirely broken loose from the lower portion of three of its sides, whereby the cover thus formed may be swung back along the hinge line 43 formed by scoring the rear wall 28.

Flaps 44, 44 are provided on the side walls 29 and 30 for the purpose of forming a closed joint along the lateral edges of the top panel 35, these flaps 44, 44 being secured to the panel 35 by adhesive. See Fig. 4.

75 In this form of the invention, it is desirable to provide a container which may be partially set

up at the carton factory and then collapsed to a flat condition for shipment to the user. For this purpose, diagonally disposed score lines 45, 45 are impressed in the side walls 29 and 30. See Fig. 6. When the flaps 31, 32, 33, and 34 are secured to the front and rear walls, as shown in Fig. 5, the front and rear walls may be collapsed flat over the bottom 26 and the central portion of the side walls will swing outwardly with the diagonal portions at the ends folded to lie against an adjacent portion of the side walls, all as clearly shown in Fig. 5. The cover panel, 35, will then assume the position shown in Fig. 5 in which it overlies the bottom 26 and front wall 27.

The carton, upon reaching the user, may be opened up for filling, after which the closure is sealed in a manner similar to that explained in connection with the first described form of the invention.

The carton, after being filled with merchandise and sealed, as above stated, may be opened by breaking the front and side walls away along their perforated lines so that the contents will assume the appearance shown in Fig. 4.

It is to be noted that the diagonal score lines in the severed portions of the side walls which are secured to the closure will become inoperative by reason of the fact that the flaps 44 are adhesively secured to the under side of the closure panel.

The diagonal score lines in the lower part or tray of the container in its final form will not be operative so as to cause outward swinging of the side walls so long as the tray portion of the container is filled with articles.

From the foregoing, it is apparent that the present invention provides an economical form of carton, which, while comprising relatively few parts, will be effective for the purpose intended. That is, it will satisfactorily enclose the contents packed therein until such time as it is desired to open the container, whereupon, by simply breaking the walls along the weakened lines, a container is formed which has a sturdy, flanged cover portion hinged on the lower portion or container proper.

While the present description sets forth a preferred embodiment of the invention, numerous changes may be made in the construction without departing from the spirit of the invention, and it is therefore desired that the present embodiment be considered in all respects as illustrative and not restrictive, reference being had to the appended claims rather than to the foregoing description to indicate the scope of the invention.

I claim:

1. A carton comprising a bottom panel, a front wall, a rear wall and two side walls formed as extensions on the edges of the bottom panel, a top panel formed on the outer edge of the rear wall, a flap on the outer edge of the top panel, attaching flaps of substantially the same width as said walls attached to the end of one and adhesively secured to the inner face of the other of the walls at each corner of the carton, to hold all of said walls in upright position, flaps on the extremities of the side walls attached to the under side of the top panel, the rear wall being scored along a line intermediate its top and bottom to provide a hinge, the front and side walls and the attaching flaps being respectively provided with a weakened line of perforations in substantial alignment with the hinge line in the rear wall whereby, when the carton walls and

the attached flaps are severed along their weakened lines, a flanged closure is provided which may be opened by swinging same rearwardly upon the hinge line formed in the rear wall.

- 5 2. A carton comprising a bottom panel, front, rear and side wall panels, attaching flaps connecting the said walls at the corners to form the main body of the carton, a top closure panel hinged to the rear wall panel, attaching flaps on 10 the upper edges of the side wall panels adhesively secured to the underside of the top closure panel, the rear wall panel having a secondary hinge line and the side and front wall panels and the corner attaching flaps having severable lines, all 15 of said lines being positioned alike intermediate the top and bottom panels whereby, when the side and front wall panels and the corner attaching flaps are broken along their severable lines, a flanged closure is provided which may be opened 20 by swinging the same on said secondary hinge line, and a flap on the free edge of the top closure panel lying inside the front wall panel, extending beyond the severable line formed therein and attached to the front wall panel between its severable line and its upper edge. 25

3. A carton comprising a bottom panel, a front wall, a rear wall and two side walls formed as extensions on the edges of the bottom panel, a top panel formed on the outer edge of the rear wall, a flap on the outer edge of the top panel, 5 attaching flaps of substantially the same width as the said walls, attached to the ends of the front and rear walls, and adhesively secured to the inner faces of the side walls at each corner of the carton to hold all of said walls in upright 10 position, flaps on the extremities of the side walls attached to the underside of the top panel, the rear wall being scored along a line intermediate its top and bottom to provide a hinge, the front and side walls and the attaching flaps being re- 15 spectively provided with weakened lines of perforations in substantial alignment with the hinging line in the rear wall whereby, when the carton walls and the attaching flaps are severed along their weakened lines, a flanged closure is 20 provided which may be opened by swinging same rearwardly upon the hinge line formed in the rear wall.

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