April 28, 1942. J. L. GILLIAN 2,281,304

PACKING AND SHIPPING CARTON

Filed June 15, 1940

Fig. 1.

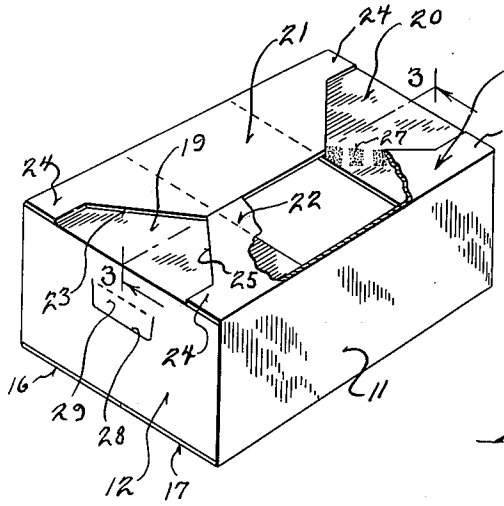


Fig. 3.

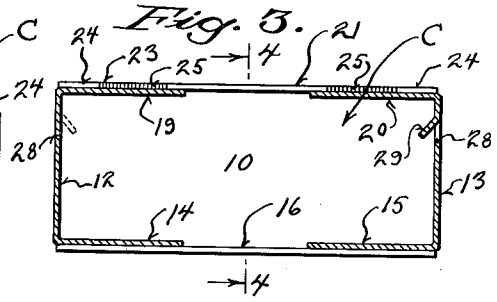


Fig. 2.

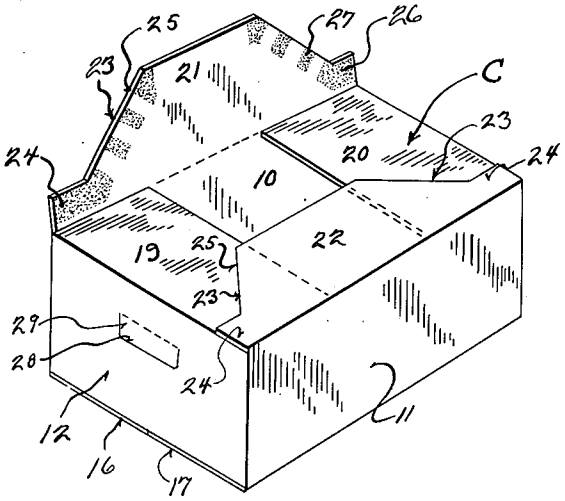


Fig. 4.

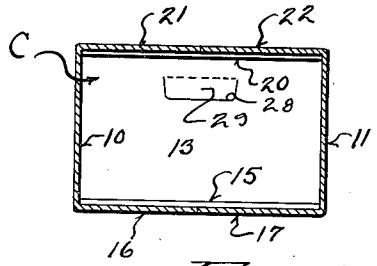
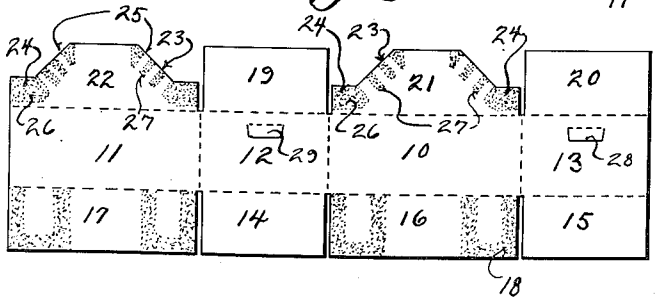


Fig. 5.



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Patented Apr. 28, 1942

2,281,304

UNITED STATES PATENT OFFICE

2,281,304

PACKING AND SHIPPING CARTON

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Application June 15, 1940, Serial No. 340,730

1 Claim. (Cl. 229—37)

This invention appertains to shipping containers, and more particularly to cardboard cartons or similar boxes commonly used for packing and shipping merchandise, food products, canned and bottled beer, etc.

One of the primary objects of this invention is to provide a cardboard or corrugated board packing and shipping carton which, when packed and sealed, will be of a strong character, but which can be conveniently and quickly opened without undue effort on the part of the receiver of the carton.

Another salient object of this invention is the provision of novel cover flaps on the side walls of the carton for sealing engagement with the end wall flaps, whereby the end wall flaps can be conveniently pressed down to permit the expeditious gripping of the cover flaps, so that the cover flaps can be quickly pulled up and torn away from the end wall flaps to facilitate the unpacking of the carton.

A further important object of my invention is to provide means for forming the cover flaps in such a manner that the same can be effectively glued to the end wall flaps without danger of the accidental opening or tearing of the cover flaps.

With these and other objects in view, the invention consists in the novel construction, arrangement, and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawing, in which drawing:

Figure 1 is a perspective view of my improved carton, showing the same in its closed sealed condition for shipping, a part of one cover flap being shown partially broken away and in section.

Figure 2 is a view similar to Figure 1, but showing one cover flap in a raised position prior to sealing.

Figure 3 is a central, longitudinal, sectional view through the carton, taken on the line 3—3 of Figure 1, looking in the direction of the arrows.

Figure 4 is a transverse, sectional view through the carton, taken on the line 4—4 of Figure 3, looking in the direction of the arrows.

Figure 5 is a plan view of the blank from which the box is formed prior to folding thereof.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter C generally indicates my improved carton, and the same includes longitudinally extending side walls 10 and 11 and the end walls 12 and 13. The walls are all formed from a single blank of material, as shown in Figure 5, and the end walls 12 and 13 have formed thereon bottom sealing flaps 14 and 15; while the lower edges of the side walls 10 and 11 have formed thereon bottom wall closure flaps 16 and 17.

In folding the box for use, the side and end walls are bent on the creasing lines and the bottom end wall flaps are then turned in, after which the bottom closure flaps are folded over on the bottom end wall sealing flaps and firmly secured thereto by suitable adhesive 18.

The upper edges of the end walls 12 and 13 have formed thereon top sealing end wall flaps 19 and 20; while the upper edges of the side walls 10 and 11 have formed thereon cover flaps 21 and 22. These cover flaps 21 and 22 are constructed in a novel manner to facilitate the opening of the box, as set forth in the objects of the specification.

As in the usual construction, the top end wall sealing flaps 19 and 20 are folded in over the contents of the box, after which the cover flaps 21 and 22 are folded down over the top end wall flaps. In accordance with the invention, the inner corners of the cover flaps 21 and 22 are cut away, as at 23, leaving outer corner tabs 24 and inwardly directed, inclined edges 25. The cutting away of the inner corners of the side wall flaps 21 and 22 leaves the central portions of the top end wall sealing flaps 19 and 20 exposed to view, but these flaps completely cover and protect the contents of the box.

The inner faces of the outer corner tabs 24 of the cover flaps 21 and 22 are covered with an adhesive 26, and spots of adhesive 27 are placed along the inclined edges 23 of the cover flaps. This permits the efficient sealing of the cover flaps 21 and 22 with the top end wall flaps 19 and 20, and by providing the corner tabs 24, accidental tearing of the cover flaps is prevented, and sufficient surface is also provided for permitting the effective sealing of the cover flaps with the top end wall flaps.

In a carton constructed in accordance with my invention, after the same has been packed and sealed and shipped to a consumer, the same can be quickly and conveniently opened without the use of tools of any character.

To open the carton or box, it is merely necessary to press down on the exposed portions of the top end flaps 19 and 20, so as to permit the insertion of the hand under the inclined edges 23 of the cover flaps. This permits an efficient grip to be had upon the cover flaps, and upon a firm upward pull on the cover flaps and continued downward pressure on the top end wall

flaps 19 and 20, the cover flaps can be quickly and conveniently raised and torn away from the top end flaps.

My carton presents a strong and durable structure, and no danger results in the cutting away of the inner corners of the cover flaps, in that a perfect seal is had at all times.

If desired, the end walls 12 and 13 can be provided with handhold slits 28, leaving bendable tabs 29. Obviously, by forcing the tabs 29 inwardly, as suggested in Figure 3, the hands can be readily inserted within the case for permitting the easy carrying thereof.

Changes in details may be made without departing from the spirit or scope of my invention, but what I claim as new is:

A packing and shipping carton comprising a body including end walls and side walls, rectangular imperforate top end wall flaps formed on the end walls and foldable in over the body with their opposed free edges in spaced relation, longitudinally extending imperforate main cover flaps formed on the side walls and foldable in over the top of the body on the top end wall flaps, said main cover flaps extending the full length of the side walls and having end reinforcing corner tabs and truncated tapering extensions, the inner edges of the extensions meeting at the longitudinal center of the carton when the main flaps are folded down, a means adhesively securing the corner tabs and the inner faces of the cover flaps along the inclined edges to the top end wall flaps, the tabs and the inclined edges of the extensions forming notches in said main flaps to expose the end wall flaps partly to view.

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