Jan. 22, 1946. C. D. FALLERT 2,393,356

CONTAINER

Filed Aug. 3, 1944

Fig. 1.

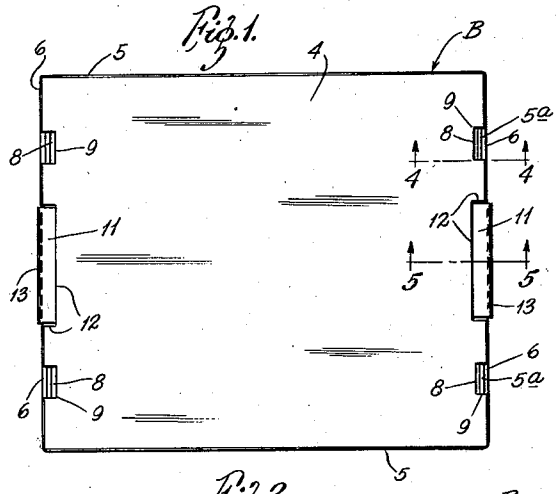


Fig. 3.

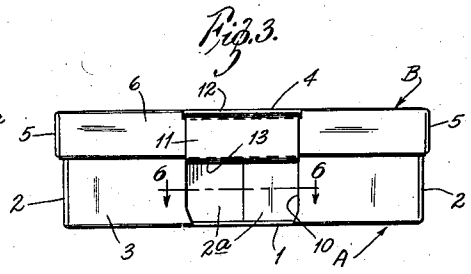


Fig. 2.

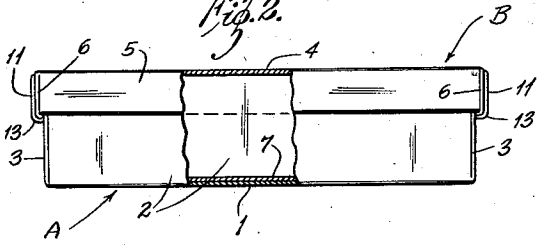


Fig. 7.

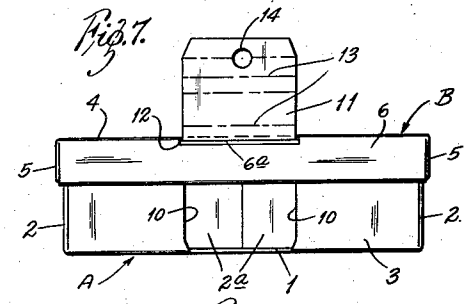


Fig. 8.

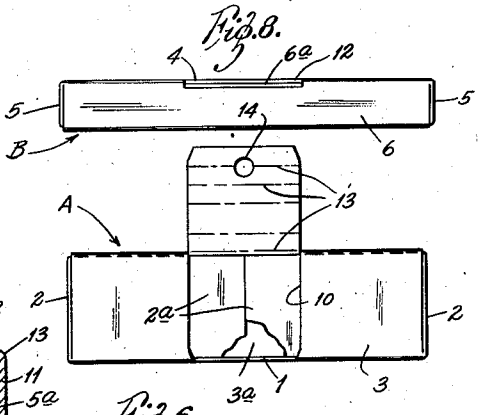


Fig. 4.

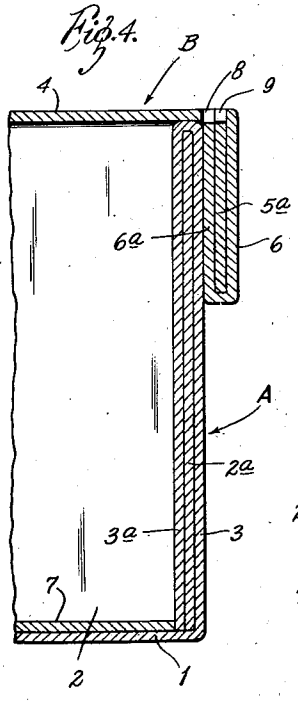


Fig. 5.

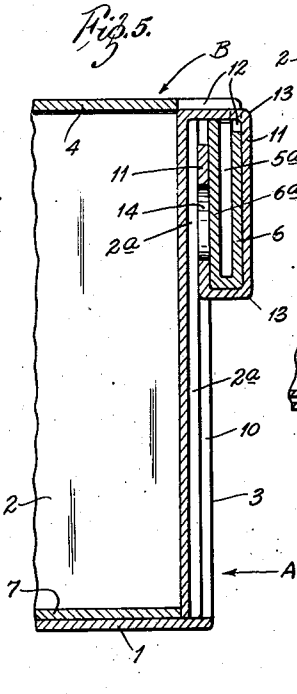
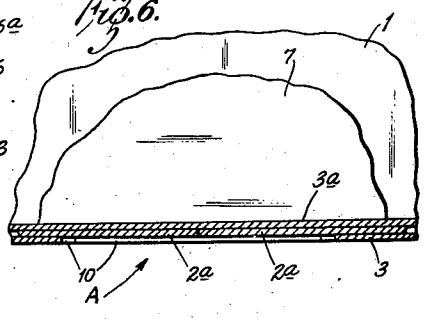


Fig. 6.



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HIS ATTORNEYS.

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UNITED STATES PATENT OFFICE

2,393,356

CONTAINER

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Application August 3, 1944, Serial No. 547,865

9 Claims. (Cl. 229—45)

This invention relates to containers, particularly shipping cartons of the type comprising a body and a slip cover therefor. The principal objects of the present invention are to provide for quickly and easily locking the cover to the body without the use of separate locking means, to provide for quickly and easily releasing the cover locking means, and to provide for simplicity and economy of construction. The invention consists in providing at least one wall of the body with a flap that extends upwardly through an opening provided therefor in the top of the cover and is bent downwardly over the corresponding wall of the cover and thence upwardly around the lower edge of the cover wall and tucked between the latter and the body wall. The invention also consists in the construction, combinations and arrangements of parts hereinafter described and claimed.

In the accompanying drawing, which forms part of this specification and wherein like symbols refer to like parts wherever they occur:

Fig. 1 is a plan view of a shipping carton embodying my invention,

Fig. 2 is a side elevational view thereof, partly in vertical section,

Fig. 3 is an end view of said carton,

Fig. 4 is an enlarged vertical fragmentary section on the line 4—4 in Fig. 1,

Fig. 5 is a similar section on the line 5—5 in Fig. 1,

Fig. 6 is an enlarged fragmentary horizontal section on the line 6—6 in Fig. 3,

Fig. 7 is an end elevational view, showing the locking flap of the body of the carton extending upwardly through the slot in the cover thereof; and

Fig. 8 is an end elevational view, showing the body and cover in separated relation.

In the accompanying drawing, my invention is shown embodied in a shipping carton comprising a body A and a slip cover B therefor, both made of corrugated board, fiberboard or other bendable material. The body A is made from a blank which is folded up around the bottom 1 of the body as a basis to form upstanding side and end walls 2 and 3, respectively; and the top 4 and the depending side and end walls or edge flanges 5 and 6, respectively, of the slip cover B are likewise formed from a similarly folded cover blank.

The corners of the body A are formed by folding end flaps or extensions 2a of the side walls 2 inwardly to lie against the inner faces of the end walls 3 and by folding free marginal extensions or flaps 3a of said end walls downwardly and inwardly along side of said side wall flaps so as to abut edgewise against the bottom 1 of said body. Thus, the end walls 3 and rebent margins 3a thereof, together with the side wall flaps 2a therebetween, form three-ply end walls. The corners of the cover B may be formed in a similar manner; that is, by providing the end walls 6 with marginal flaps 6a that are rebent on the inner sides of said walls to hold the inwardly bent end flaps 5a of the side walls 5 between said end walls and their rebent marginal flaps.

As shown in the drawing, the end flaps or extensions 2a of the side walls 2 of the body A are disposed in endwise abutting relation midway of said side walls, while the end flaps or extensions 5a of the side walls 5 of the cover B are spaced apart at their adjacent ends. The rebent margins 3a of the end walls 3 of the body A are held against the end flaps or extensions 2a of the side walls thereof by means of a sheet 7 of corrugated board that snugly fits within said body and rests on the bottom 1 thereof in edgewise abutting relation to said rebent end wall margins. The rebent margins 6a of the end walls 6 of the cover B are held against the end flaps or extensions 5a of the side walls 5 thereof by means of locking tabs 8 that project upwardly from said margins and fit within openings 9 provided therefor in the top 4 of said cover.

The end walls 3 of the body A are slit, as at 10, to provide hinged locking tabs 11 that are detached along three sides but are integral with said walls along the rebent top edges thereof. The locking tabs 11 are preferably located midway of the side walls 2 of the body A; and the cover B has elongated openings or slots 12 in its top 4 midway of its side walls 5 of a length corresponding to the width of said locking tabs. As shown in the drawing, the slots 12 are located at the ends of the cover B with their inner longitudinal edges spaced inwardly of the upturned margins 6a of the end walls 6 and with their outer longitudinal edges located in said end walls just below the top edges of said upturned margins.

To apply the cover B to the body A, the locking tabs 11 are bent into an upright position and directed through the elongated slots 12 in the top 4 of the cover. The cover B is then slipped over the body A and rests on the tops of the rebent side walls 2 and end walls 3 thereof. The upstanding locking tabs 11 are then bent outwardly and downwardly around the overhanging end walls 6 of the cover B and are thence rebent inwardly and upwardly around the lower edges of said end walls and tucked between the rebent

margins 6a thereof and the portions of the body side wall extensions 2a that are uncovered by the portions of body end walls 3 that are cut away to form said locking flaps. As shown in the drawing, the locking flaps 11 are scored transversely, as at 13, so as to facilitate bending thereof.

The cover B is unlocked by inserting the fingers between the tuck portions of the locking flaps 11 and withdrawing such portions downwardly from their positions between the end walls of the body and cover, the tuck portions of said flaps having finger openings 14 formed therein to facilitate such withdrawal. The released locking flaps 11 are then bent upwardly into vertical position, thereby permitting the cover A to be lifted vertically from the body B and said flaps withdrawn through the slots 12 in the top 4 of said cover.

The above described construction enables the cover to be quickly and easily locked and unlocked; it dispenses with separate fasteners; the opening formed in the end walls of the body by the locking flaps provides a clear space for the tuck portions thereof; and the abutting end flaps or extensions of the side walls of the body close said opening and protect the contents of the carton from injury by the fingers in locking and unlocking said cover.

Obviously, the hereinbefore described carton construction admits of considerable modification without departing from the invention. Therefore, I do not wish to be limited to the precise construction described.

What I claim is:

1. A carton comprising a body and a cover therefor, said body having an upstanding wall and said cover having a top with a vertical opening therethrough and a depending edge flange overhanging said wall, said wall having a locking tab thereon that is extended upwardly through said opening and is bent outwardly and downwardly outside said flange and is thence rebent upwardly around the lower edge of said flange and releasably tucked between said wall and said flange.

2. A carton comprising a body and a cover therefor, said body having a multi-ply upstanding wall and said cover having a vertical opening therethrough and a depending edge flange overhanging said wall, one ply of said wall having a locking tab integral with the top edge therewith that is extended upwardly through said opening and is bent downwardly outside said flange and is thence rebent upwardly around the lower edge of said flange and releasably tucked between said wall and said flange.

3. A carton comprising a body and a cover therefor, said body having an upstanding multi-ply wall and said cover having an opening therethrough and a depending edge flange overhanging said wall, the outer ply of said wall being slit to provide a locking tab at the upper edge thereof, said locking tab being extended outwardly through said opening, downwardly outside said flange and thence upwardly around the lower edge of said flange and tucked between the latter and said wall.

4. A carton comprising a body and a cover therefor, said body having an upstanding wall with a locking tab extending from the upper edge thereof and said cover having a top with a vertical opening therethrough above said upper edge of said wall and a depending edge flange outside said wall, said locking tab extending upwardly through said opening, thence downwardly outside said flange and thence upwardly around the lower edge of said flange and tucked between said wall and said flange.

5. A carton comprising a body and a slip cover therefor, said body having two opposite walls with locking tabs integral therewith and said cover having openings therethrough and depending end flanges overhanging said walls, said locking tabs extending outwardly through said openings and being bent downwardly outside said flanges and thence rebent upwardly around the lower edges of said flanges and tucked between said walls and said flanges.

6. A carton comprising a body and a slip cover therefor, said body having end walls with locking tabs integral with the upper edges thereof and said cover having a top with vertical openings therethrough above said end walls and depending end flanges overhanging said end walls, said locking tabs extending upwardly through said openings, thence outwardly and downwardly alongside of said end flanges and thence upwardly around the lower edge of said flanges and tucked between said end walls and said flange.

7. A carton comprising a body and a slip cover therefor, said body having multi-ply end walls and said cover having openings therethrough above said end walls and depending end flanges overhanging said end walls, the outer plies of said walls being slit to provide locking tabs at the upper edges thereof, said locking tabs being extended upwardly through said openings and bent downwardly outside of said end flange and thence rebent upwardly around the lower edges of said end flanges and tucked between the latter and an inner ply of said end walls.

8. A carton comprising a body and a slip cover therefor, said body having multi-ply end walls and said cover having vertical openings therethrough above said end walls and depending end flanges overhanging said end walls, the outer plies of said end walls being slit to provide spaces between said end walls and end flanges and locking tabs that project from the upper edges of said end walls, said locking tabs being extended upwardly through said vertical openings, thence outwardly over said cover, thence downwardly outside said end flanges and thence upwardly around the lower edges of said end flanges into the spaces between the latter and said end walls.

9. A carton comprising a body and a cover therefor, said body having an upstanding wall and said cover having a slot therethrough and a depending edge flange overhanging said wall, said wall including an outer ply with an opening therein and an inner ply covering said opening, the outer ply of said wall having a locking tab extending from the upper edge of the opening therein that is extended outwardly through said slot and is bent downwardly outside said flange and thence rebent upwardly around the lower edge of said flange and tucked between the latter and said inner ply of said wall.

CLIFFORD D. FALLERT.

Disclaimer

2,393,356.—*Clifford D. Fallert*, St. Louis, Mo. CONTAINER. Patent dated Jan. 22, 1946. Disclaimer filed Nov. 5, 1949, by the assignee, *Gaylord Container Corporation.*

Hereby enters this diclaimer to claims 1 and 4 of said patent.

[*Official Gazette December 20, 1949.*]