May 23, 1944. H. E. OTTO 2,349,748

DISPENSING CONTAINER OR CARTON

Filed Nov. 5, 1942

Fig. 1.

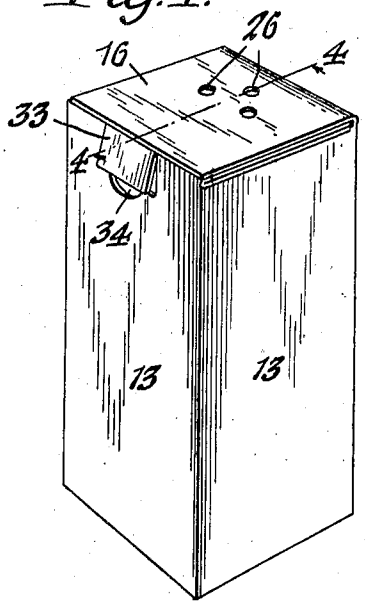


Fig. 2.

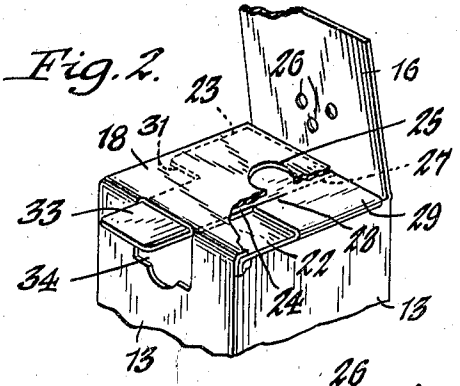


Fig. 3.

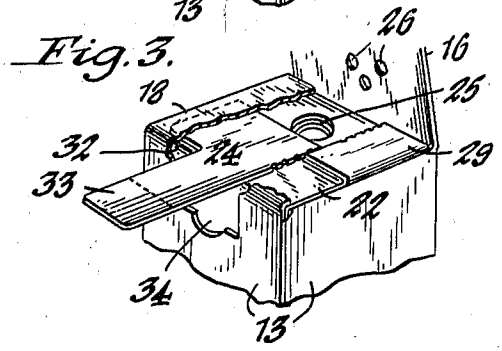


Fig. 4.

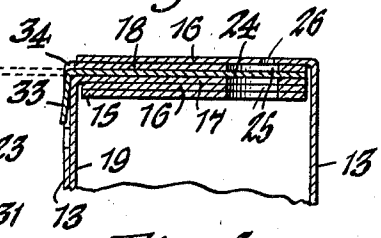


Fig. 6.

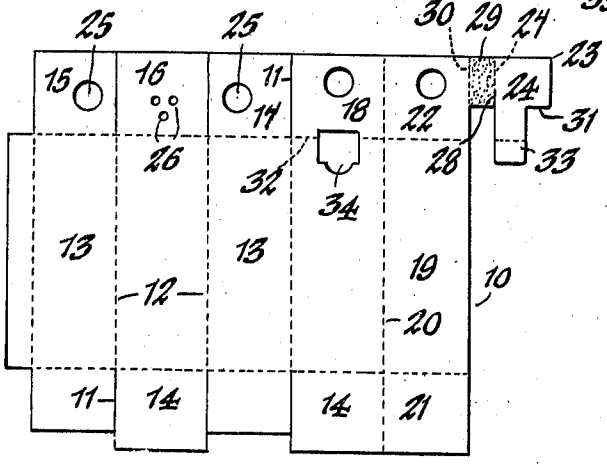
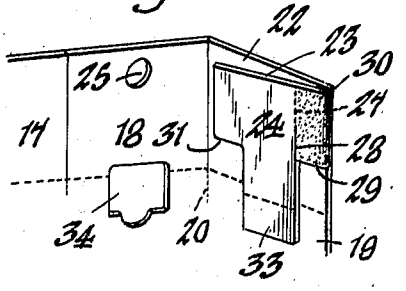


Fig. 5.



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DISPENSING CONTAINER OR CARTON

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Application November 5, 1942, Serial No. 464,575

7 Claims. (Cl. 229—17)

This invention relates to a certain new and useful improvement in paper or cardboard containers or cartons and more particularly to a dispensing carton.

It has for one of its objects to provide a carton of this character which is so designed and constructed that the contents of the carton are normally sealed against discharge but which may be readily unsealed by the user when it is desired to use the contents of the carton.

Another object of the invention is to provide a dispensing carton having overlapping end closure flaps, certain of which have alining or registering perforations therein, while another of such flaps is provided with a self-contained fracturable portion which normally constitutes a closure for and seals the perforated flaps against leakage and which, when separated or broken, places the perforated flap in condition for the emission of the container contents.

A further object of the invention is to provide a one-piece cardboard carton for dispensing powdered or like material which is simple, compact and inexpensive in construction, and which embodies as an integral part thereof a fracturable sealing portion or tongue.

Other features of the invention reside in the construction and arrangement of parts hereinafter described and particularly pointed out in the appended claims.

In the accompanying drawing:

Figure 1 is a perspective view of the dispensing carton embodying my invention. Figure 2 is a fragmentary perspective view showing the outermost, perforated dispensing flap opened to show the fracturable portion or tongue of the imperforate flap in its sealing position. Figure 3 is a similar view showing the fracturable portion of tongue in its broken or withdrawn position to place the carton in condition for use. Figure 4 is an enlarged cross section through the dispensing end of the carton, taken in line 4—4, Figure 1. Figure 5 is a fragmentary perspective view of the dispensing end of the carton showing the parts unfolded. Figure 6 is a plan view of the blank from which the carton is made.

Similar characters of reference indicate corresponding parts throughout the several views.

The dispensing carton is preferably made of cardboard or like material and may be made of various shapes and sizes to meet the requirements of the trade in the marketing of comminuted materials, such as talcum powder, tooth powder, etc. In the form shown in the drawing, the carton is rectangular in shape and is formed from a single blank 10 of cardboard by cutting and scoring the same, as indicated at 11 and 12, respectively, to provide side walls 13, lower closure flaps or end walls 14, and upper closure flaps or end walls 15, 16, 17 and 18, whereby the several walls may be folded or bent in an obvious manner and glued to form the completed carton. In addition to the four side walls, a fifth or auxiliary side wall 19 is provided which is foldable along the fold line 20 against the adjoining side wall 13 and glued thereto in the assembled condition of the carton, such fifth wall also having foldable end walls or flaps 21, 22 adapted to overlie and be glued to the corresponding end walls of said adjoining side wall. Projecting laterally from the upper flap 22 of this auxiliary side wall is an extension 23, which, in the assembled condition of the carton, is adapted to be folded against such flap to assume a position between the latter and the adjoining end flap 18 and which includes as an integral and self-contained part thereof, an endwise fracturable portion or tongue 24 serving to normally seal the container-contents against discharge and, when fractured and displaced to a given position, placing the container in condition for discharging its contents.

The end flaps 15, 17 and 18 as well as the end flap 22 of the auxiliary side wall 19 have discharge ports or perforations 25 therein which are so disposed that in the folded condition of the carton they register one with another in the manner shown in Figure 4, while the end flap 16 which assumes the outermost end wall of the carton and serves as its dispensing head has a group of perforations 26 therein registrable with said other ports and through which the container-content is discharged. The extension 23 of the auxiliary end flap 22 is imperforate and constitutes the sealing element of the carton and closes over the several registering discharge ports to normally prevent discharge of the container-contents. The fracturable sealing tongue 24 of this extension is disposed in the registering plane of the alining discharge ports and to enable this tongue to be severed or disconnected from its extension 23 when it is desired to expose or uncover the alining ports to permit the discharge of the container-contents, a longitudinal scoring 27, which may include an alining slit or cut 28, is provided between this tongue and an adjoining marginal strip 29 which connects the extension by a fold line 30 with the end flap 22. This strip is provided with a glue print on its opposite sides so that in its folded position it is secured at one side to the flap 22 and at its opposite side to the

flap 18. The extension 23 is substantially T-shaped, the fracturable scoring-line 27, 28 being substantially in line with the outer side edge of the leg portion thereof, so that when the tongue 24 is severed, it is substantially L-shaped, having a transverse shoulder 31 at its front edge which is adapted to abut against the adjoining fold 32 between the end flap 18 and its companion side wall 13 for limiting the opening movement of the tongue and retaining it captive between the flaps 18 and 22. The leg portion 33 of the tongue constitutes a finger piece or tab for pulling the tongue to its fractured position and thereafter for moving it to an open and closed position at the will of the user, the tab projecting through an opening 34 formed in the end flap 18 and adjoining side wall and normally having its foldable tip or front end bent downwardly and lodged within such opening where it is flush with the companion carton-wall.

When it is desired to use the carton, the user grasps the tip end of the finger tab 33 and gives it a smart outward pull which breaks the connection 27, 28 between the tongue 24 and the body of the extension 23, the severed tongue being thereafter readily adjusted to open and closed positions as desired.

I claim as my invention:

1. A container of the character described, comprising a cardboard body having side walls and a plurality of overlapping perforated end flaps, one of the end flaps having a laterally-foldable extension projecting from an edge thereof to assume a position between such flap and the next adjoining end flap, said extension including a fracturable tongue disposed in sealing relation to the perforated flaps to normally prevent discharge of the container-contents and when fractured to expose the perforations in said flaps to permit dispensing of the container contents, said tongue having a finger-engaging tab thereon and the companion carton-wall having an opening therein through which said tab projects.

2. A container of the character described, comprising a cardboard body having side walls and end flaps and an auxiliary side wall with end flaps, the several end flaps having registering perforations therein, the end flap of the auxiliary side wall having a foldable extension thereon adapted to assume a position between a pair of the other end flaps to normally seal the container-contents against discharge, said auxiliary flap-extension having an endwise fracturable tongue disposed in the registering plane of said perforations.

3. A container of the character described, comprising a cardboard body having side walls and end flaps and an auxiliary side wall with end flaps, the several end flaps having registering perforations therein, the end flap of the auxiliary side wall having a foldable extension of substantially T-shape in plan including a fracturable tongue disposed in the registering plane of said perforations.

4. A container of the character described, comprising a cardboard body having side walls and end flaps and an auxiliary side wall with end flaps, the several end flaps having registering perforations therein, the end flap of the auxiliary side wall having a foldable extension including a marginal strip for anchoring it to adjoining end flaps in the folded condition of the container and a fracturable tongue disposed in the registering plane of said perforations.

5. A container of the character described, comprising a cardlboard body having side walls and end flaps and an auxiliary side wall with end flaps, the several end flaps having registering perforations therein, the end flap of the auxiliary side wall having a foldable extension thereon adapted to assume a position between a pair of the other end flaps to normally seal the container-contents against discharge, said auxiliary flap-extension having an endwise fracturable tongue disposed in the registering plane of said perforations and including a finger piece and a shoulder constituting a stop for limiting the movement of the fracturable tongue to its open position, the contiguous portion of one of the side walls and its end flap having an opening therein through which said finger piece extends.

6. A container blank, comprising a sheet of cardboard scored and slit to provide foldable side walls and top and bottom walls, the top walls having perforations therein adapted to be in registering relation in the folded condition of such walls, one of the top walls having a foldable extension projecting laterally therefrom and including scorings defining a fracturable tongue.

7. A container blank, comprising a sheet of cardboard scored and slit to provide foldable side walls and top and bottom walls, the top walls having perforations therein adapted to be in registering relation in the folded condition of such walls, one of the top walls having a foldable extension of substantially T-shape projecting therefrom and having a scoring in the cross bar thereof defining a fracturable tongue.

HERMAN E. OTTO.