Dec. 19, 1933. A. J. MURRAY 1,940,010

CONVERTIBLE SHIPPING CARTON

Filed Sept. 1, 1932 2 Sheets-Sheet 1

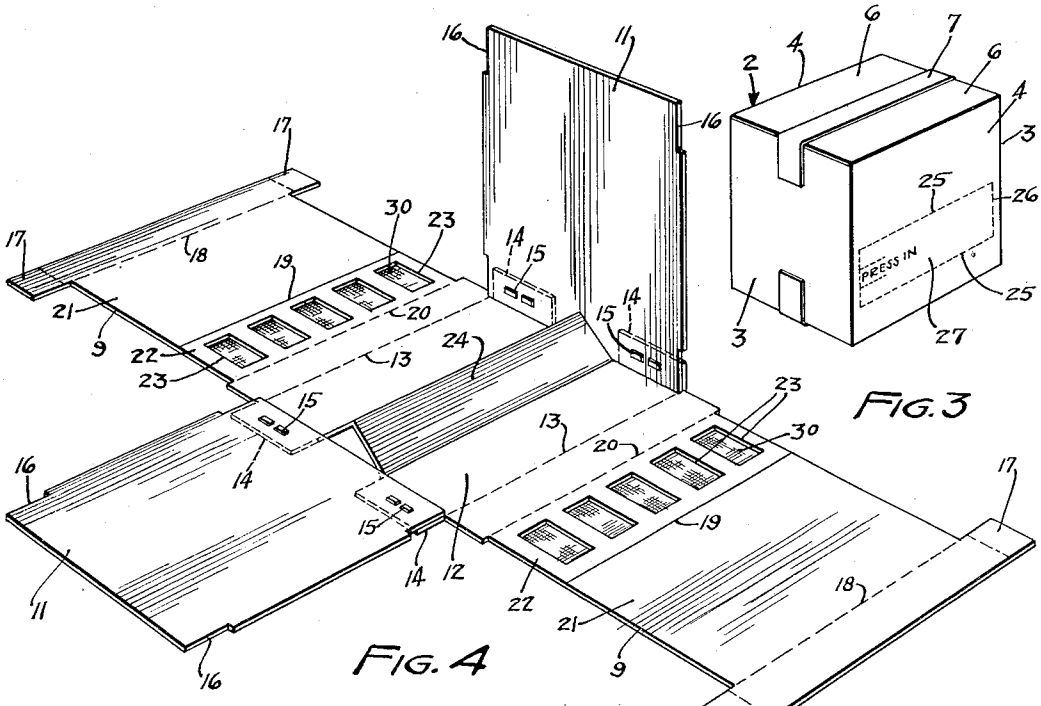


FIG. 4

FIG. 3

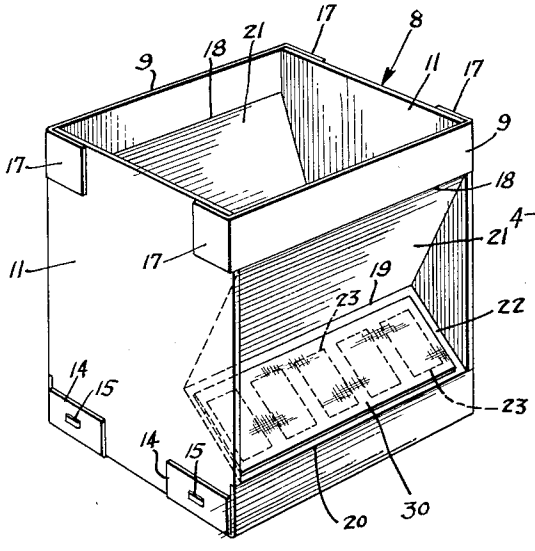


FIG. 2

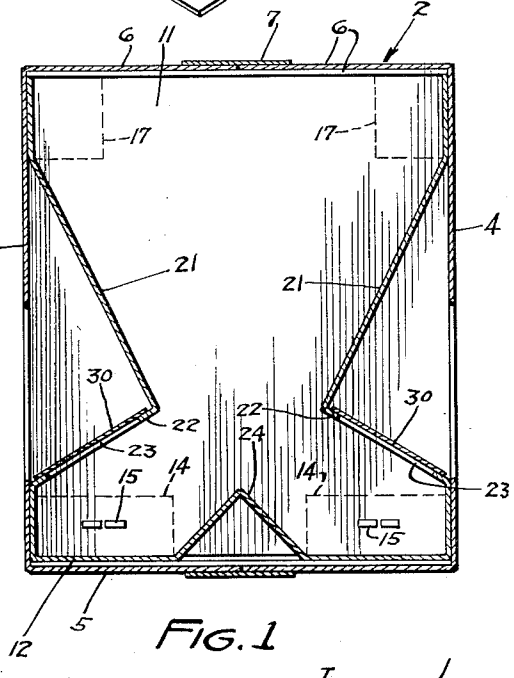


FIG. 1

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CONVERTIBLE SHIPPING CARTON

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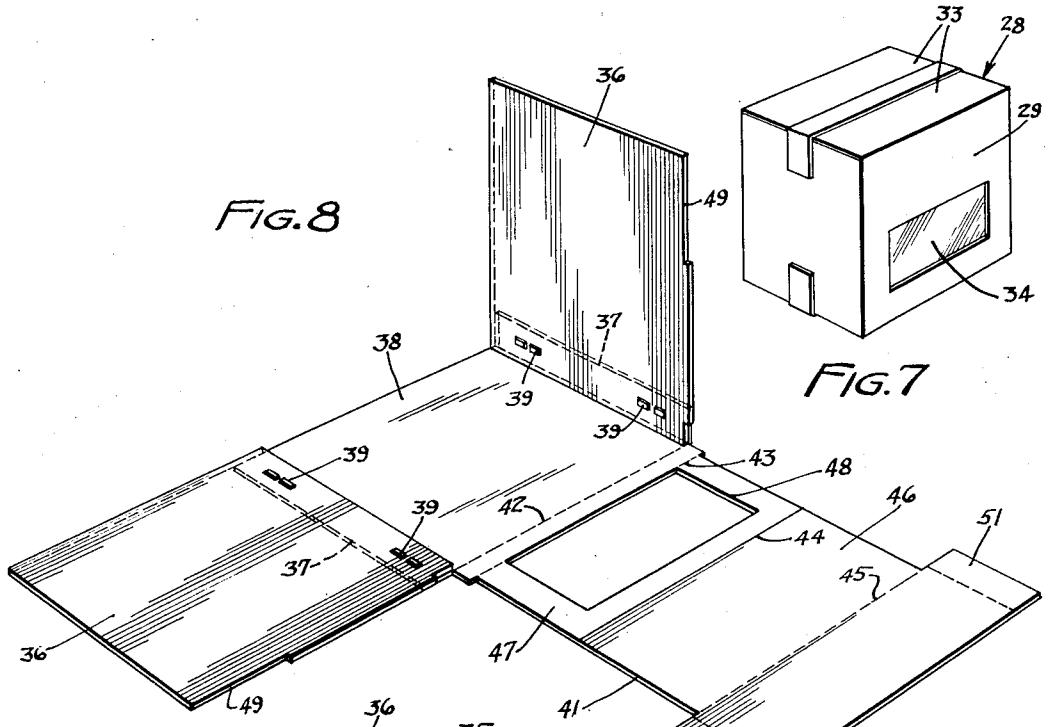


FIG. 8

FIG. 7

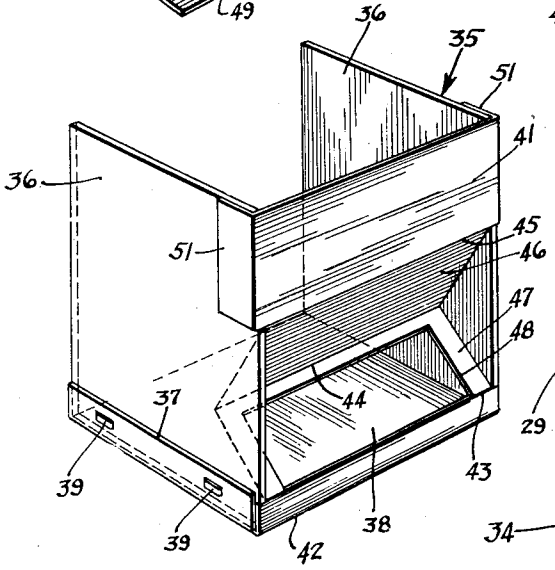


FIG. 6

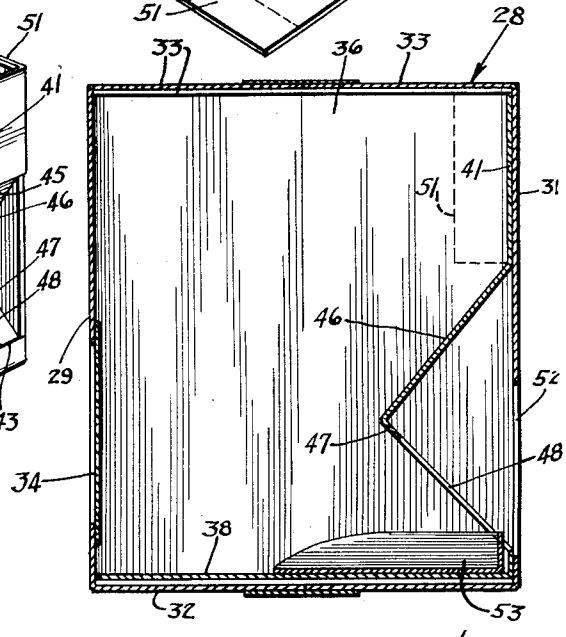


FIG. 5

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CONVERTIBLE SHIPPING CARTON

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Application September 1, 1932. Serial No. 631,306

7 Claims. (Cl. 229—7)

This invention relates to an improved convertible shipping carton of the general character disclosed in my copending application, Serial No. 624,242, filed July 23, 1932.

An object of the present invention is to provide a device of the class described which is very simple and inexpensive in construction whereby it may be set up ready for use in a comparatively short time.

A further object is to provide a convertible shipping carton comprising an outer enclosing member and an insert adapted to be supported therein and comprising oppositely disposed end walls of substantially rectangular configuration, and a side wall having a portion adapted to be fitted between said end walls to direct the material in the insert towards the center thereof and said inwardly bent wall portion also having an inclined portion provided with an opening through which the contents of the insert may be removed.

A further object is to provide a convertible shipping and dispensing device comprising an outer enclosing member and an insert adapted to be supported within said enclosing member, said insert having a plurality of walls forming three sides thereof, and one of said walls having a portion bent inwardly to provide a hopper bottom, and having a portion provided with an opening through which the contents of the insert may be removed from the device, and a window being provided in a wall of the outer enclosing member adapted to register with the open side of said insert whereby the contents of the latter may be viewed by persons passing by the device.

Other objects of the invention will appear from the following description and accompanying drawings and will be pointed out in the annexed claims.

In the accompanying drawings, there has been disclosed a structure designed to carry out the various objects of the invention, but it is to be understood that the invention is not confined to the exact features shown as various changes may be made within the scope of the claims which follow.

In the drawings:

Figure 1 is a vertical sectional view of the device showing the insert positioned within the outer enclosing member;

Figure 2 is a perspective view of the insert before being inserted into the outer enclosing member;

Figure 3 is a perspective view showing the outer enclosing member sealed and ready for shipment;

Figure 4 is a perspective view showing the insert in the form of a blank provided with suitable score lines, whereby portions thereof may be bent upwardly to provide the walls thereof;

Figure 5 is a view showing a device for dispensing such material as nuts or candy;

Figure 6 is a perspective view of the insert used in the form shown in Figure 5;

Figure 7 is a perspective view showing the front side of the carton when sealed and ready for shipment; and

Figure 8 shows the insert 35 before it is folded for insertion into the carton.

The device herein disclosed comprises an outer enclosing member or carton 2 comprising end walls 3, side walls 4, and a bottom wall 5. The upper wall of the carton is shown comprising a plurality of suitable flaps 6 of ordinary construction, which may be folded into closing relation, as shown in Figure 1, and secured in such position by means of a suitable sealing strip 7, shown in Figure 3.

The insert generally indicated by the numeral 8, is best shown in Figures 2 and 4, and comprises side members 9 and end wall members 11. The side wall members 9 are shown integrally formed with the bottom section 12 and are provided with suitable score lines 13, whereby the side walls may be folded upwardly to the positions shown in Figure 2.

The end wall members 11 may be made independently from the blank from which the side and bottom walls are made, and are shown secured to suitable tabs 14, provided at opposite ends of the bottom section 12, by such means as staples 15.

The end wall members 11 are made rectangular in configuration and are provided at their upper portions with suitable notches 16 adapted to receive the oppositely extending tabs 17 provided at the upper ends of the side walls 9, as best shown in Figure 2.

The side wall members 9 are shown provided with suitable score lines 18, 19, and 20, along which the material is bent to provide the inwardly extending wall portions 21 which cooperate to provide a hopper bottom. The lower portions of the inclined wall portions 21 are supported by the inclined wall portions 22, as shown in Figure 1, and the latter are provided with suitable feed openings 23, whereby the chicks may gain access to the material in the insert. Suitable sealing strips 30 close the feed openings 22, as best shown in Figure 2, when the device is in transit.

The bottom section 12 of the insert is also shown scored to provide an inverted V-shaped member 24, which acts as a spreader to divert the material from the center of the insert outwardly beneath the feed openings 23.

When the insert is fitted into the outer enclosing member or carton 2, the feed openings 23 are closed by means of the sealing strips 30 so that when the insert is filled with material and the carton is closed, it may be handled without danger of the contents of the insert leaking therefrom or into the triangular spaces provided between the inwardly bent portions of the side walls 9 and the adjacent walls 4 of the carton 2. The opposite side walls 4 of the outer enclosing member are provided with suitable score lines 25 and 26 whereby the sections 27 bounded by these score lines, may readily be removed from the walls of the carton to gain access to the feed openings 23 provided in the inclined wall portions 22.

The structure shown in Figures 5 to 7 is particularly designed for use as a convertible shipping and dispensing device, and comprises an outer enclosing member or carton 28 provided with a front wall 29, rear wall 31, bottom wall 32, and a suitable top wall composed of suitable flaps 33 adapted to be folded into closing relation in the usual manner, as shown. A suitable window 34 is provided in the front wall 29 of the carton, as shown in Figures 5 and 7.

An insert 35 is adapted to be fitted into the carton 28 and comprises suitable end walls 36 of rectangular configuration which are shown suitably secured to the marginal end portions 37 of the bottom panel 38 by such means as staples 39. The marginal end portions 37 of the bottom section 38 are suitably scored whereby the end walls may be folded to the positions shown in Figure 6.

The side wall 41 is shown integrally formed with the bottom section 38 and is separated therefrom by a score line 42 along which the material may be bent in an upward direction, as shown in Figure 6. The side wall section 41 is further provided with score lines 43, 44, and 45 and along which the material may be bent to provide inwardly extending inclined wall sections 46 and 47, the former providing a hopper bottom to divert the material towards the center of the insert, and the latter having a suitable opening 48 therein, whereby the contents of the insert may readily be removed therefrom.

The side wall section 41 is adapted to be supported between the end wall members 36 by means of notches 49 and tabs 51 provided respectively upon the end and side wall members, as shown in Figures 6 and 8. The tabs 51 are adapted to interlock with the notches 49 in a manner similar to the tabs 17, shown and described with reference to the previous figures. A suitable sealing strip, not shown, which may be similar to the sealing strip 30 shown in Figure 2, is provided for closing the opening 48 in the inclined wall portion 47. Access may be had to the opening 48 in the inclined wall portion 47, through an opening 52 which may be provided in the rear wall 31 of the carton by the removal of a portion of said wall in a manner similar to the sections 27 which are removed from the side walls 4 of the carton 2, shown in Figures 1 and 3.

Before the insert is filled, it is inserted into the outer enclosing member or carton 38, whereby the material delivered thereto will be supported by the end walls 36 and the side wall 41 of the insert, and the front wall 29 of the carton in which the window 34 is provided. The contents of the insert will thus repose against said window, and may readily be viewed by persons passing by the device, when it is placed upon a counter or other suitable support. A suitable scoop 53, such as shown in Figure 5, may be used for removing the contents from the insert 35.

An important feature of this device resides in the particular shape or configuration of the end wall members 11 of the structure shown in Figure 4 and the end wall member 36 of the structure shown in Figure 8. These walls, unlike the corresponding walls shown in my pending application, above mentioned, are rectangular in form so that the inwardly bent wall portions which form the hopper bottom will not be supported directly upon the end walls but will be supported by the tabs provided upon the upper portions of the side walls which interlock with the notches provided in the end wall members. By thus constructing the end walls, the device is greatly simplified and the operation of setting up the insert and fitting it into the outer enclosing member or carton 2 may also be expedited. The container is of the usual collapsible type so that it may be stacked in bundles in a collapsed form before use, and the inserts may also be stacked as blanks when in the form shown in Figures 4 and 8.

The form shown in Figures 5 to 8 provides a very convenient device for dispensing candy and nuts and various articles, as it is neat and attractive in appearance, and may readily be placed upon a display counter or other suitable support in a store, or other suitable place of business, in the normal line of vision of persons passing thereby, whereby it may attract the attention of prospective purchasers and thus tend to stimulate sales.

I claim as my invention:

1. In a device of the class described, an outer enclosing member, an insert adapted to be supported in said enclosing member and comprising a plurality of upright walls, certain of which are substantially rectangular in configuration, another of said walls having a portion adapted to be bent inwardly between said rectangular walls to provide a hopper bottom, and means at the upper portions of said rectangular walls for supporting said inwardly bent wall portion when the insert is supported within the enclosing member.

2. In a device of the class described, an outer enclosing member, an insert adapted to be supported in said enclosing member and comprising a plurality of upright walls, two of which are substantially rectangular in configuration, another of said walls being scored whereby it may be bent to provide inwardly bent inclined portions adapted to be fitted between said rectangular walls, and means at the upper portions of said rectangular walls for supporting said inwardly bent inclined wall portions when the insert is supported within the enclosing member, one inclined portion of said inwardly bent wall forming a hopper bottom for the insert, and another inclined portion thereof having an opening to permit removal of material from the insert.

3. In a device of the class described, an outer enclosing member, an insert adapted to be supported in said enclosing member and comprising end, side, and bottom walls, said end walls being substantially rectangular in configuration,

said side walls having portions adapted to be bent inwardly between said end walls to provide a hopper bottom and also to provide panels having openings therein whereby the contents of the insert may be removed therefrom, and means at the upper portions of said side walls adapted to interlock with means on said end walls to retain the side walls in position when the insert is supported within the enclosing member.

4. In a device of the class described, an outer enclosing member, an insert adapted to be supported in said enclosing member and comprising a pair of end walls of substantially rectangular configuration, a side wall having a portion bent to provide a V-shaped portion adapted to be fitted between said rectangular walls with its ends engaged therewith, said V-shaped portion providing a hopper bottom adapted to direct material in the insert towards the center thereof, and means at the upper portions of said rectangular end walls for supporting said side wall when the insert is supported within the enclosing member.

5. In a device of the class described, an outer enclosing member, an insert adapted to be supported in said enclosing member and comprising a pair of opposed walls of substantially rectangular configuration, another wall having a portion fitting between and supported by said opposed walls and forming a hopper bottom, and another wall of said enclosing member having a window therein through which the material in the insert may be viewed before being removed therefrom.

6. In a device of the class described, an outer enclosing member, an insert adapted to be supported in said enclosing member and comprising end walls, a bottom wall, and a single side wall whereby said insert is formed with an open side, said side wall having a portion bent inwardly and inclined upwardly and provided with an opening through which the contents of the insert may be removed, means for closing said opening when the device is in transit, means above said inclined wall portion for directing the material towards the center of the insert, and the wall of said enclosing member which registers with the open side of the insert having a window therein whereby the contents of the device may be viewed before being removed therefrom.

7. In a convertible shipping and dispensing device, an outer enclosing member, an insert adapted to be supported in said enclosing member and comprising a pair of oppositely disposed walls, another wall having an inwardly bent portion fitting between said end walls and provided with an opening through which the contents of the insert may be removed with a suitable scoop, means for closing said opening when the device is in transit, and the wall of said enclosing member which registers with the open side of the insert having a window therein whereby the contents of the device may be viewed to attract the attention of persons passing by said device.

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