R. H. FITZ GERALD.

DISPLAY CARTON.

APPLICATION FILED SEPT. 28, 1917.

1,272,411.

Patented July 16, 1918.

Fig. 1.

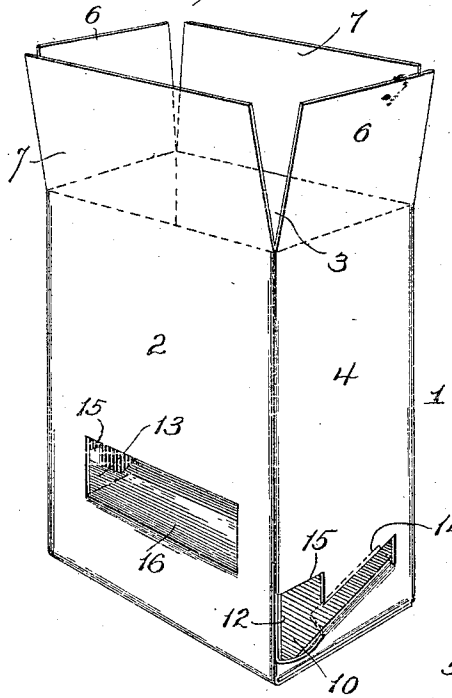


Fig. 2.

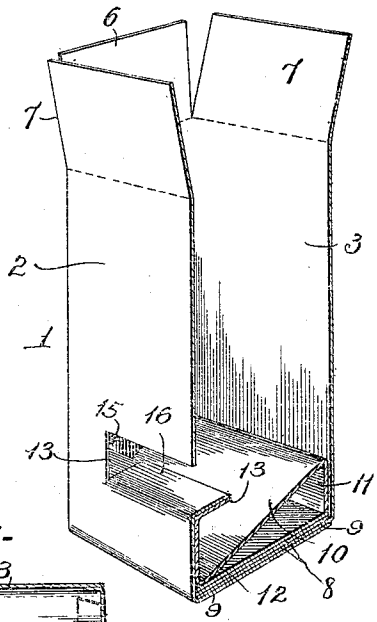


Fig. 3.

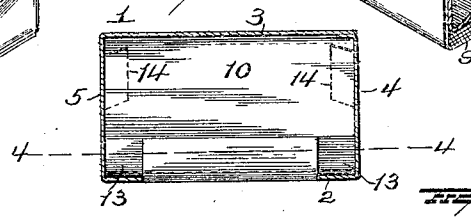


Fig. 4.

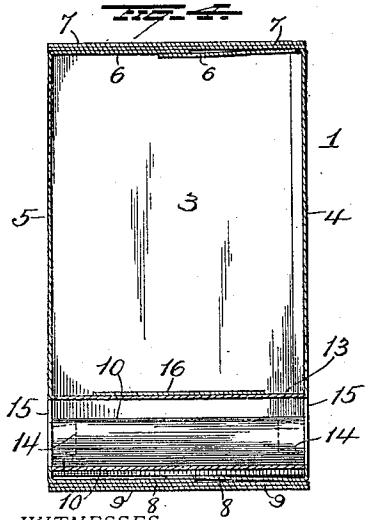


Fig. 5.

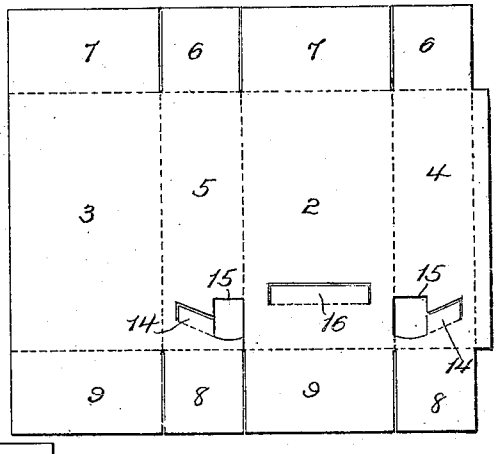
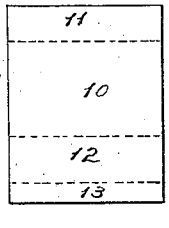


Fig. 6.



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DISPLAY-CARTON.

1,272,411. Specification of Letters Patent. Patented July 16, 1918.

Application filed September 28, 1917. Serial No. 193,733.

To all whom it may concern:

Be it known that I, RAY H. FITZ GERALD, a citizen of the United States, and a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Display-Cartons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in display cartons and more particularly to such as are made of paper or cardboard,—one object of the invention being to construct a carton in such manner that the articles or packages contained therein shall be automatically fed, one at a time, to a discharge outlet through which the same may be easily ejected without interference with or hindrance by the remaining articles or packages within the carton.

With this and other objects in view, the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of a display carton embodying my improvements; Fig. 2 is a vertical sectional view; Fig. 3 is a transverse sectional view; Fig. 4 is a vertical section on the line 4—4 of Fig. 3, and Figs. 5 and 6 are views of the blanks.

In the embodiment of my invention shown in the drawings, the carton 1 is made rectangular in form comprising front and back members 2, 3, and side members 4, 5, integral therewith. The side members 4—5 are provided at their upper ends with flaps 6—6 which are bent inwardly and the front and back members 2—3 are provided with flaps 7—7 which fold over the flaps 6 and over each other, thus forming the closed top of the carton,—and these several flaps may be fastened together by gluing or they may be provided with interlocking tongues and notches in the well known manner and which is not necessary to herein show and describe.

The bottom of the carton is closed by means of flaps 8—8 at the lower edges of the sides 4—5 and flaps 9—9 at the lower edges of the front and back 2—3,—said flaps being secured together in the same manner as above described.

Located within the bottom portion of the carton is a false bottom 10. This may be conveniently made of card-board and is provided at one edge with a depending flange 11 which extends to the bottom of the carton and maintains the false bottom in a position inclining toward the front of the carton at the bottom thereof. A flange 12 is provided at the lower edge of the false bottom and extends upwardly therefrom parallel with the inner face of the front 2 of the carton,—the upper end of said flange being provided with an inwardly projecting lip 13.

Tongues 14 are cut from the material of the sides 4—5 of the carton near the bottom of the latter and are bent inwardly so as to be disposed under the inclined false bottom 10. Communicating with the slots formed by cutting out the tongues 14 from the sides 4—5, are openings 15,—said openings being located in the sides 4—5 near the front 2 of the carton. A tongue or shelf 16 is cut from the material of the front 2 of the carton and projects inwardly over the flange or lip 13,—said shelf being disposed just above the openings 15 in the sides 4—5 and serving to support the front row of articles in the carton and prevent the same from interfering with the positioning of other articles therein in line with the openings 15 as long as the carton contains articles other than those supported by said shelf.

If desired those portions of the flanges of the false bottom which lie parallel with walls of the carton may be glued thereto and said false bottom may also be glued to the tongues 14.

It will be apparent that with my improvements the articles or packages constituting the contents of the carton will be fed by gravity and the false bottom to position, one at a time, in line with the openings 15. Either of these openings may constitute a discharge outlet through which an article may be ejected by pressure of the finger inserted through the other of said openings, 15.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is:—

1. A display carton provided at its lower end with a false bottom inclined from the rear to the front wall of the carton, and having each side of the carton at a point slightly above the lower portion and re-

spective ends of the false bottom provided with alined openings, each of sufficient size to permit the insertion of a finger of a customer and either of said openings constituting a discharge outlet.

2. A display carton provided in its side walls near the bottom thereof and adjacent to the front of the carton with alined openings, a false bottom in said carton inclining downwardly toward the bottoms of said alined openings, and a shelf projecting inwardly from the front of the carton and above said alined openings.

3. A display carton provided in its side walls near the bottom thereof and in proximity to the front of the carton with alined openings, a shelf cut from material of the front of the carton and projecting inwardly above said alined openings, and a false bottom inclining downwardly toward the bottoms of said alined openings and terminating at its lower edge under said shelf.

4. A display carton having alined openings in its side walls near the bottoms thereof and in proximity to the front wall of the carton, a false bottom inclining downwardly from the back wall of the carton to the lower end of the front wall thereof, said false bottom having a supporting flange depending from its back edge, and the side walls of the carton having tongues projecting inwardly under said false bottom.

5. A display carton having alined openings in its side walls near the bottom thereof, an inclined false bottom terminating at its lower edge below said openings and provided at said lower edge with an upwardly projecting flange having a lip projecting inwardly from its upper edge, and a shelf projecting inwardly from the front wall of the carton and disposed over said lip.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

RAY H. FITZ GERALD.

Witnesses:
FRANK A. SMITH,
T. B. AVERMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents Washington, D. C."