B. ROSENBERG.

COLLAPSIBLE CONTAINER.

APPLICATION FILED APR. 26, 1918.

1,291,161.

Patented Jan. 14, 1919.

Fig. 1.

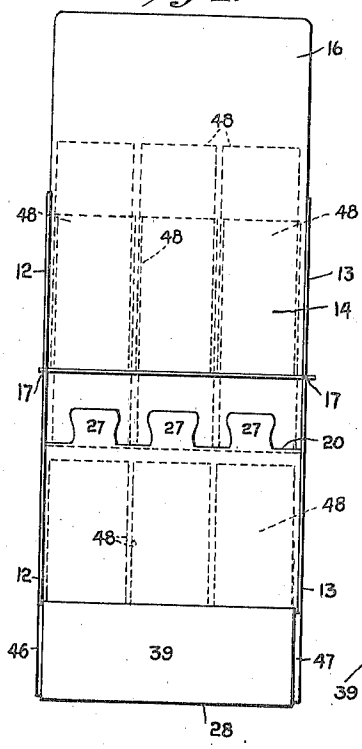


Fig. 2.

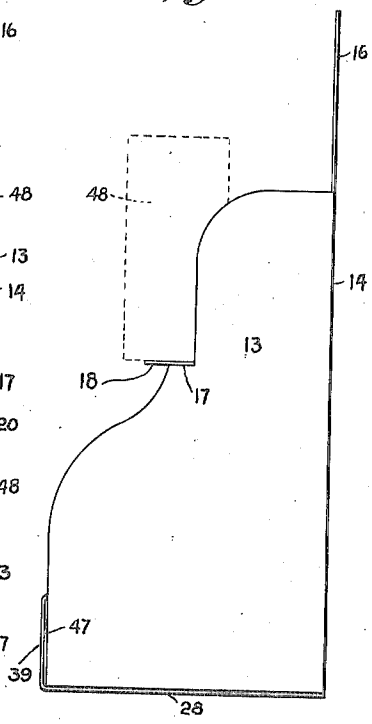


Fig. 3.

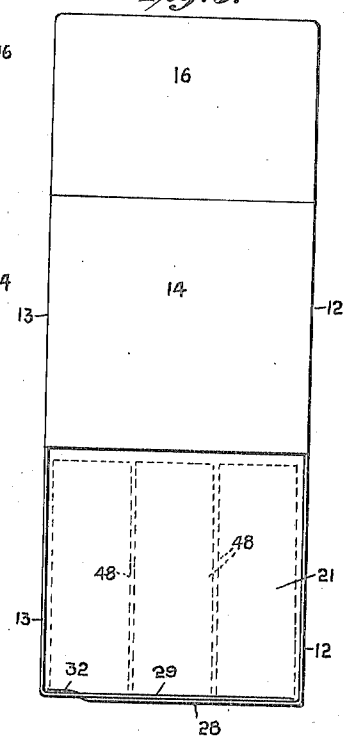


Fig. 4.

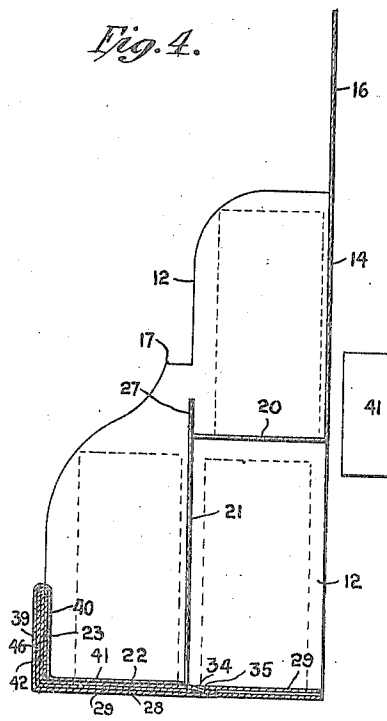
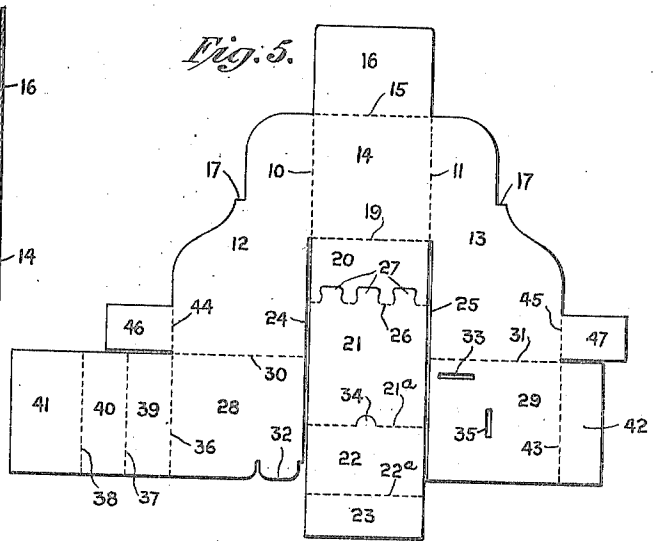


Fig. 5.



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COLLAPSIBLE CONTAINER.

1,291,161. Specification of Letters Patent. Patented Jan. 14, 1919.

Application filed April 26, 1918. Serial No. 230,924.

To all whom it may concern:

Be it known that I, BENJAMIN ROSENBERG, a citizen of the United States of America, residing at New York city, in the county and State of New York, have invented certain new and useful Improvements in Collapsible Containers, of which the following is a specification.

My invention relates to an improved carton or receptacle preferably made from a single blank of any suitable material, such as cardboard or pasteboard.

The principal object of the invention is to provide such a carton or receptacle which shall be capable of compactly holding a desired number of objects in display position, and shall have sufficient capacity to hold an additional number of objects in reserve at the same time. A further object of the invention is to so score and cut the blank that it may be quickly set up into condition for use, and as quickly unfolded if it be desired to place it out of use. A still further object is to so shape the blank that when set up it, with its contents, may be easily shipped without danger of the objects contained in the receptacle being broken or lost.

The embodiment of the invention at present preferred by me is illustrated in the accompanying drawing, in which—

Figure 1 is a front elevational view of the carton in position of use;

Fig. 2 is a side elevational view;

Fig. 3 is a rear elevational view;

Fig. 4 is a substantially central vertical sectional view; and

Fig. 5 is an extended view of the blank used in forming the carton.

Referring first to Fig. 5 in which the blank is shown, the web of cardboard or pasteboard is provided with the parallel score lines 10 and 11, by means of which the sides 12 and 13 are movably joined to the upper rear wall 14. At its upper edge the wall 14 has movably connected to it, by a score line 15, a tab or flap 16 which serves the double function of an advertising card and a protective covering for articles in the receptacle, as will be more fully hereinafter explained.

The edge of each side 12 and 13 may be given any desired contour, although the substantial ogee shape illustrated is preferred. It is desirable to provide each edge with a straight portion 17, so that when the box stands upright with the sides 12 and 13 parallel the portions 17 will offer a support for a ledge or shelf 18 which may be laid over the parts 17 and serve to receive additional articles to be displayed.

Attached by a score line 19 to the lower edge of the upper rear wall 14, are the central sections which in the completed receptacle form a horizontal article-supporting wall 20, an intermediate vertical wall 21, the base 22 and an upstanding front flap 23. The central sections, just named, are laterally severed from the sides 12 and 13 along the cuts or lines 24 and 25. Between the walls 20 and 21 is a score line 26, and cut out of the lower edge of the wall 20, but integral with the wall 21, so as to project upwardly from the wall 21 when the latter is in vertical position, are one or more stops such as the tabs 27 to prevent articles on the wall 20 from falling or being pushed therefrom. The sections 21 and 22 are connected together by the score line 21^a, and the sections 22 and 23 are connected together by the score line 22^a.

The bottom of the receptacle is formed by the flaps 28 and 29 which are movably attached to the lower edges of the side walls 12 and 13, respectively, by the score lines 30 and 31. The flap 28 is provided with a tongue 32 at its lower inner edge designed to engage a slot 33 formed in the flap 29 near its upper edge, and the upper edge of the base wall 22 is provided with a tongue 34 designed to engage a second slot 35 formed in the flap 29 and extending substantially at right angles to the slot 33. When the blank is laid flat, the slot 33 extends horizontally, and the slot 35 extends vertically at about the center of the flap. It will be obvious that the slot and tongue connections act as interlocks for the parts provided therewith.

The bottom flap 28 is provided with a lateral elongation divided by the score lines 36, 37 and 38 into the relatively movable sections 39, 40 and 41; and the flap 29 has a lateral extension 42 movably connected with such flap by the score line 43. Connected to the lower edges of the side walls 12 and 13, by score lines 44 and 45, respectively, are flaps or extensions 46 and 47 which, with the blank extended flat, lie immediately above the extensions of the bottom flaps 28 and 29. These several parts are coördinated in the manner to be described hereinafter.

To set up, or form the blank of Fig. 5

into the completed box shown in the other figures of the drawing, the parts are manipulated in the following order:—The central sections 20 to 23 are moved upwardly, as a whole, in a direction forward of the wall 14, and thereafter the side walls 12 and 13, with the parts attached thereto, are moved into a position parallel to each other and at right angles to the wall 14. Then the bottom flaps 28 and 29 are moved into superposed position at right angles to the walls 12 and 13 with the flap 29 resting on the flap 28, and in this position of the parts the tongue 32 may be inserted into the slot 33 which being done the bottom flaps are interlocked. Thereupon the sections 21, 22 and 23 are moved rearwardly between the walls 12 and 13, being bent along the lines 26 and 21a. The effect of this rearward movement is to bring the wall 20 into horizontal position and the wall 21 into vertical position. The bottom wall 22 rests on the bottom flap 29 and the flap 23 projects forwardly from between the side walls 12 and 13. The tongue 34 is then engaged in the slot 35, and the central section is interlocked with the lower section of the box. The flaps 23 and 42 are then bent upwardly parallel to each other, the flaps 46 and 47 moved inwardly to lie against the outer face of flap 42, the section 39 moved upwardly against the flaps 46 and 47 on the outside front end of the receptacle, the section 40 folded down against the inner face of section 23 and the section 41 moved down against and parallel to the bottom wall 22 between the intermediate wall 21 and the section 23. The receptacle is now in completely set up position in readiness to receive the articles to be stored and displayed.

It is to be understood that a carton or receptacle of the character described above may be made of almost any desired capacity, and the specific device herein illustrated and described will comfortably accommodate a dozen relatively short rectangular packages such as packages of hair pins or chewing gum. The space between the intermediate vertical wall 21 and the flap 40 will hold in display position say three packages 48 while there may be placed upon the horizontal wall 20 a like number of packages 48. In the storage space below the wall 20 and in the rear of the wall 21 there will be sufficient room to accommodate a double row of three packages each, so that in this way the container as a whole will accommodate twelve packages. It is to be understood that this number is merely given for purposes of illustration and that the receptacle may be made of such size as to receive a greater or less number of packages. It will also be understood that instead of having but one wall 20 a plurality of such walls may be provided.

The packages resting on the wall 20 are held in position thereon by the tabs 27, the packages in front of the wall 21 are held in position by the several thicknesses of wall at the front lower end of the receptacle, while no special means need be provided, although it may be, to retain the articles in the storage space below the wall 20.

As indicated above a shelf 18 may be laid over the straight edges 17 and additional articles 48 may be placed on such shelf. Ordinarily this will not be desirable because the articles on such shelf 18 would either entirely or partially hide from view those resting on the wall 20.

One of the great advantages of the present device is the facility with which it may be shipped, and the contents thereof remain undisturbed. When the device is in display position the tab 16 stands upwardly and may be and in practice is provided with advertising matter. When the box with its contents is to be shipped the flap 16 is turned into a horizontal position so as to overlie the articles on the supporting wall 20, and thereafter a jacket or container of suitable size is slipped over the entire package and the latter is then ready for shipment.

I desire it to be understood that my invention is not dependent on size or proportion of parts, nor is it to be limited to the details of construction herein illustrated and described, but what I claim as new and desire to secure by Letters Patent is:—

1. A carton or receptacle comprising an integral blank and consisting of side walls, a base, and a single intermediate section foldable to provide a supporting wall and to divide approximately one half of the interior of the receptacle into oppositely arranged chambers adapted to receive articles.

2. A carton or receptacle comprising an integral blank and consisting of side walls and base members, an intermediate section of greater length than the combined length of the said side walls and base members, said intermediate section forming a horizontal supporting wall between the side walls intermediate their ends and a vertical intermediate wall between the side walls.

3. A carton or receptacle comprising an integral blank and consisting of side walls, a base, a supporting wall extending outwardly between the side walls at a point intermediate their ends whereby space is provided above and below said supporting wall and an intermediate wall extending from said supporting wall to said base whereby space is provided between said intermediate wall and the front of said receptacle.

4. A carton or receptacle comprising an integral blank and having therein an intermediate section including a substantially rectangular portion forming an article supporting shelf and dividing the interior of

said receptacle into a front display portion and a rear storage portion.

5. A carton or receptacle comprising an integral blank and having therein an intermediate section including a horizontal supporting wall, and a vertical intermediate wall dividing the interior of the receptacle into a front display portion and a rear storage portion.

6. A carton or receptacle comprising an integral blank and consisting of side walls, base members, means for interlocking the latter, an intermediate section of substantially rectangular form between the side walls, and means for interlocking the intermediate section with one of said base members.

7. A carton or receptacle comprising an integral blank and consisting of side walls and base members movably connected thereto, a rear vertical wall movably connected with the inner edges of said side walls, a horizontal supporting wall movably connected with said rear vertical wall, an intermediate vertical wall movably connected with said supporting wall, means on said intermediate vertical wall to retain articles on said supporting wall, means for interlocking said base members, and means for locking said intermediate vertical wall to one of said base members.

8. A carton or receptacle comprising an integral blank and consisting of side walls and base members movably connected thereto, a rear vertical wall movably connected with the inner edges of said side walls, a projecting flap movably connected with one edge of said vertical wall, a horizontal supporting wall movably connected with the opposite edge of said vertical wall, an intermediate vertical wall movably connected with said supporting wall, means projecting beyond the plane of said supporting wall to retain articles thereon, means for interlocking the base members, and means for locking the intermediate vertical wall to one of the base members.

In testimony whereof I have affixed my signature in presence of two witnesses.

BENJAMIN ROSENBERG.

Witnesses:
OTTO MUNK,
CLARICE FRANCK.