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A. O. DALLER

1,975,831

CARTON

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Fig. 1.

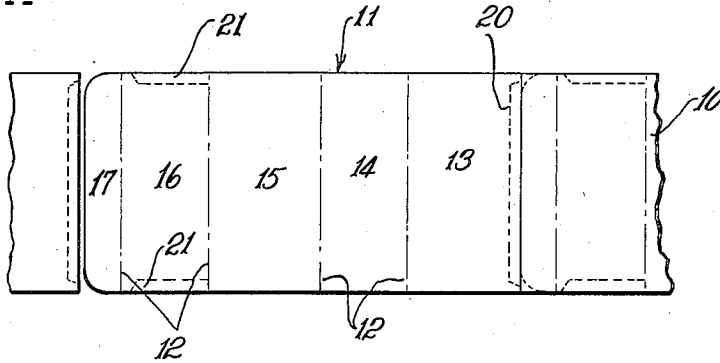


Fig. 2.

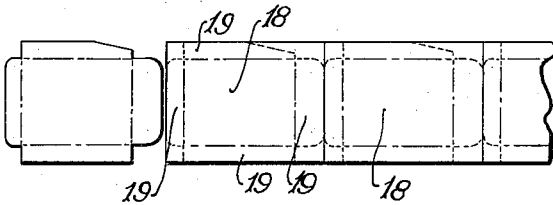
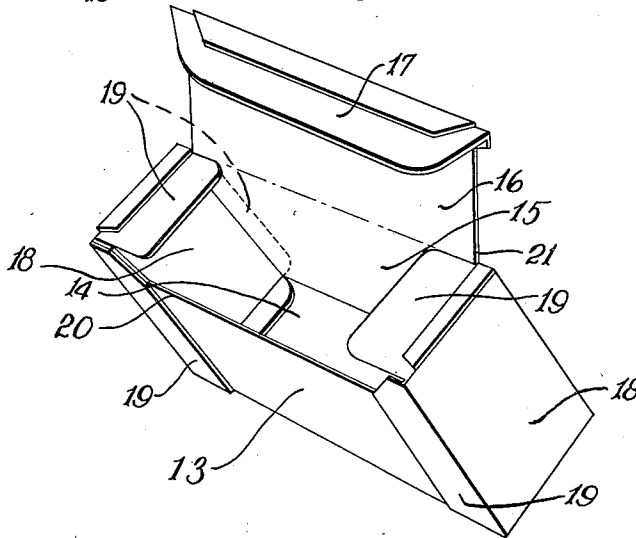


Fig. 3.



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CARTON

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8 Claims. (Cl. 229—23)

This invention relates to a container and more especially to a three piece container.

In general it is an object of the invention to provide a device of the character described which will efficiently perform the purpose for which it is intended which is simple and economical of construction, which can be expeditiously and conveniently manipulated, and which may readily be manufactured and assembled.

Another object of the invention is to provide a container made with minimum wastage from the materials chosen.

Another object is to provide a container, the side, bottom and top sections of which are formed of a single piece of material.

Another object is to provide such a container which is tight-sealed, and which may be used as a temporary container after the seal has been broken.

Another object is to provide a container, each end of which is a single layer of material.

Other objects of the invention will in part be obvious and will in part appear hereinafter.

The invention accordingly comprises an article of manufacture possessing the features, properties, and the relation of elements which will be exemplified in the article hereinafter described and the scope of the application of which will be indicated in the claims.

For a fuller understanding of the nature and objects of the invention, reference should be had to the following detailed description taken in connection with the accompanying drawing, in which:

Fig. 1 is a plan view of a strip of material with a single piece marked off, which is one element of a container embodying one form of the invention;

Fig. 2 is a similar view of a piece of material with portions marked off which are elements adapted to be used in the container, another element of which is shown in Fig. 1; and

Fig. 3 is a perspective view of a container constructed from the elements shown in Figs. 1 and 2.

In modern merchandising a great percentage of all articles sold is dispensed in containers, and in many instances the price of the container enters largely into the price of the article. It is important that there should be as little wastage as possible in the material entering into the structure of the container, even though in small quantities the material may be relatively inexpensive. Any saving of material becomes worth while when large numbers of containers are to be used. The present invention has reduced the

amount of waste material to an almost absolute minimum. Not only is there practically no material thrown away, but also all of the material used is necessary for the proper functioning of the structure.

In the drawing, numeral 10 denotes a source of material, such as a strip, from which the element 11 of the container is to be severed. The light lines 12 indicate where the element is to be folded and, running from side to side, successively set off a side section 13, base section 14, side section 15, cover section 16 and tucking-in flap 17. The similar end pieces 18 may be secured from the same or a different piece of material. These have a main area equal to the cross section of the container to be formed. Sealing tabs 19 extend from the four sides of the end sections.

The container may be assembled in any convenient fashion. For example, the element 11 may be folded into its final position, and the end pieces attached thereto as desired. The sealing flaps may be sealed to the outside of the side sections and to the inside of the bottom section and the cover. This method of forming the completed carton is preferred, particularly where a tight sealed package is desired, as it insures against the presence of small holes at the corners of the carton through which air and even fine material may pass. Where a tight seal is not essential the end pieces may be incorporated in the finished carton by any convenient method of attaching the sealing flaps to the element 11. They may be all attached to the outer surfaces of the wall of that element, for example. It is also to be understood that the cover need not be sealed to the sealing flaps 19 if a tight, sealed package is not desired, nor need the tucking flap 17 be sealed to the front wall 13.

Another manner of assembling the container is to seal the tucking-in flap against section 13, and fold the element 11 flat. Various such folded elements may be stacked and shipped before final assembling. When this method is followed, the folded element may later be opened, but not unsealed, one end section sealed on, the container end filled and the other end section finally secured in place.

A score line 20 on the side section 13 may be provided, which sets off that portion of said section against which the tucking-in flap lies. It will be apparent that when a tight seal is secured by sealing the tucking flap to this scored section, the cover section 15 may be raised by breaking along the score line 20, the set off portion of section 13 remaining affixed to the tucking-in flap.

Thereafter the container may be intermittently used as a temporary structure.

The score lines 21 on the cover section 16 may be provided to set off portions thereof, against which certain of the sealing flaps 19 lie. The score lines 21 may extend from the back edge of the cover section toward the front, and then deviate toward the end sections. Upon opening the container, the score lines 21 are broken, and the cover section raised leaving portions of the cover section attached to the sealing flaps. This arrangement permits of a secure seal at the upper front corners, and removes any tendency of the parts to become separated, so that a tight seal is assured which is particularly advantageous when material is to be packed, which might otherwise sift out through small apertures. The corners might otherwise become unsealed due to the stresses thereon. The corners of the various flaps may be rounded off if desired.

It will be apparent from the foregoing description that the present invention provides a container manufactured with a minimum waste, and adapted to withstand the stresses and strains of shipping with a maximum of security.

Although certain sections have been termed side and top, etc., the scope of the concept is not to be limited by the terminology employed, as the dimensions may be varied at will, and what might be a top section in one device might be an end in another, etc.

Since certain changes may be made in the above article and different embodiments of the invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

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

1. A tight-sealed container comprising end sections, sealing flaps on said end sections, bottom, side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, whereby a substantially air-tight seal is secured at each corner of said carton and along all adjacent sections thereof.

2. A container comprising end sections, sealing flaps on said end sections, bottom, side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, and score lines on said top section adapted to set off portions of said top section which are secured to certain of said flaps.

3. A container comprising end sections, sealing flaps on said end sections, bottom side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, and score lines on said

top section adapted to set off portions of said top section which are secured to certain of said flaps, all of said container except said end sections being formed of one integral, substantially rectangular piece of material.

4. A container comprising end sections, sealing flaps on said end sections, bottom, side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, whereby a substantially air-tight seal is secured at each corner of said carton and along every pair of overlying sections, and a tucking-in flap extending from said top section.

5. A container comprising end sections, sealing flaps on said end sections, bottom, side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, whereby said carton is rendered substantially air-tight and a tucking-in flap extending from said top section, all of said container except said end sections being formed of one integral substantially rectangular piece of material.

6. A container comprising end sections, sealing flaps on said end sections, bottom, side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, a tucking-in flap extending from said top section, all of said container except said end sections being formed of one integral substantially rectangular piece of material, and score lines on said top section adapted to set off portions of said top section which are secured to certain of said flaps.

7. A container comprising end sections, sealing flaps on said end sections, bottom, side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, a tucking-in flap extending from said section, and a score line in said side section against which said tucking-in flap lies and adapted to set off a portion of said side section, said side section and said tucking-in flap being intersecured.

8. A container comprising end sections, sealing flaps on said end sections, bottom, side and top sections, said flaps being secured to the outside of said side sections and to the inside of said top and bottom sections, a tucking-in flap extending from said top section, all of said container except said end sections being formed of one integral substantially rectangular piece of material, score lines on said top section adapted to set off portions of said top section which are secured to certain of said flaps and a score line in said side section against which said tucking-in flap lies and adapted to set off a portion of said section, said side section and said tucking flap being intersecured.

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