March 21, 1933. C. C. CHASE 1,902,760

SPECIAL PACKAGE

Filed June 22, 1931 2 Sheets-Sheet 1

Fig. 1.

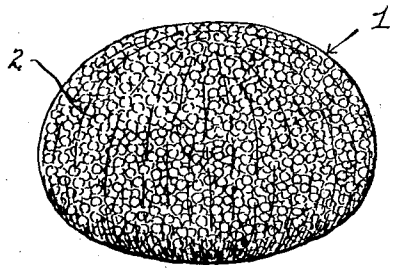


Fig. 2.

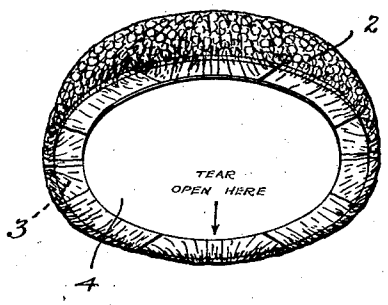


Fig. 3.

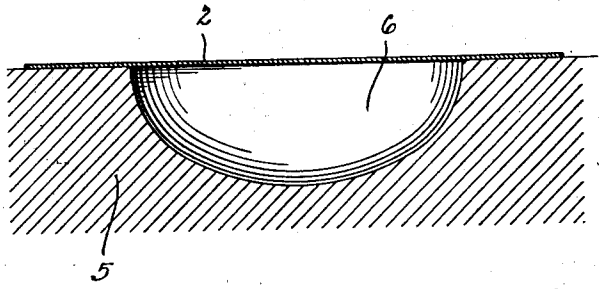


Fig. 4.

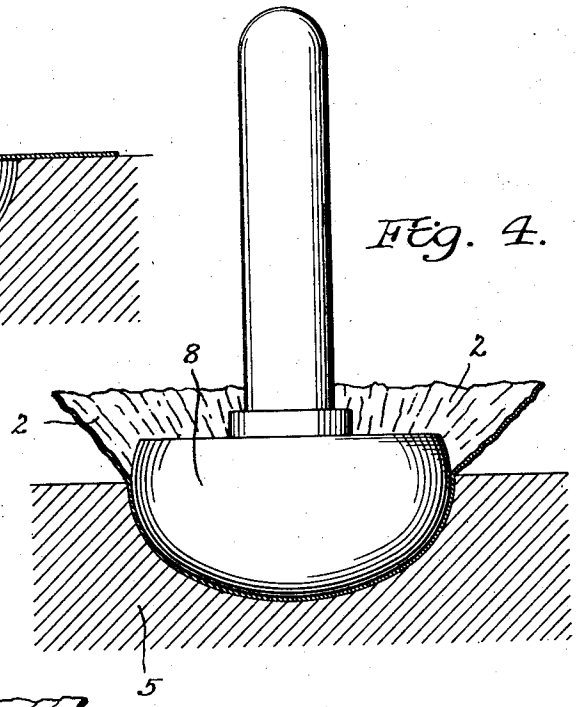
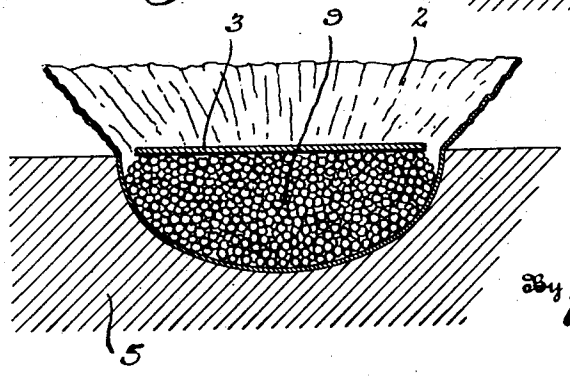


Fig. 5.



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SPECIAL PACKAGE

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Fig. 6.

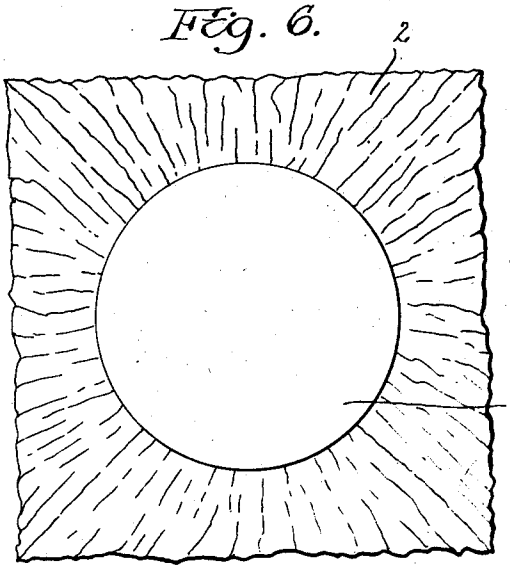


Fig. 7.

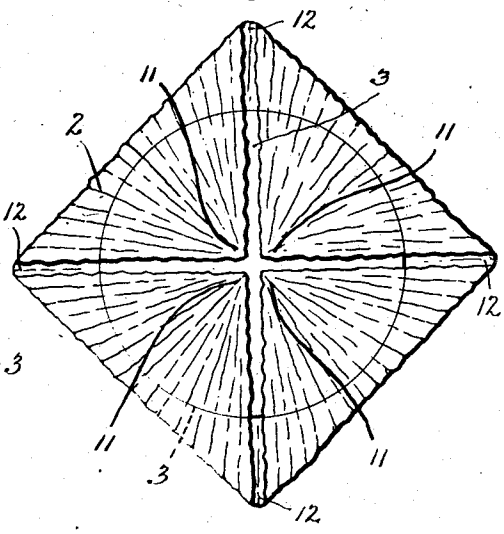


Fig. 8.

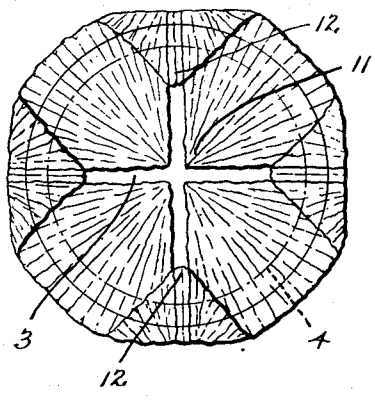


Fig. 9.

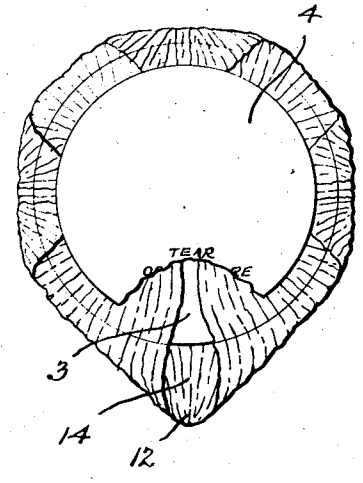
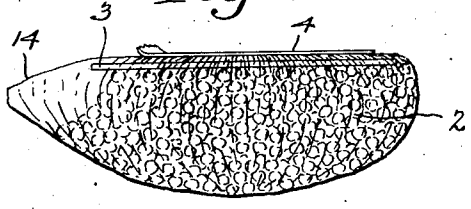


Fig. 10.



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Patented Mar. 21, 1933

1,902,760

UNITED STATES PATENT OFFICE

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SPECIAL PACKAGE

Application filed June 22, 1931. Serial No. 546,119.

This invention relates to the art of packaging articles in bulk, such for instance as candies, and it covers the process for making and filling the receptacle as well as the finished package.

One of the objects of the invention is to construct a package having a flat bottom and a convex or mound shaped contour above said bottom, the package being formed so as to facilitate the withdrawal of its contents by opening a fold in the bottom thereof.

A further object of the invention is the process of forming a package or receptacle of the type described of flexible material, such as cellophane, conformed in a mold and filled while in the mold so as to cause the contents to assume the convex contour of the package.

Still another object of the invention is to provide a package formed from a sheet of transparent material having a convex portion formed by diverting the transparent material equally in all directions from its planar position, and having a flat reinforced bottom adapted normally to support its contents.

Other objects of the invention will become apparent as the detailed description thereof proceeds.

In the drawings throughout the several figures of which the same characters of reference have been employed to designate identical parts:

Figure 1 is a perspective view of the finished package, seen from above;

Figure 2 is a perspective view from beneath;

Figures 3, 4 and 5 represent steps in the process of conforming and filling the package. Figure 3 being a vertical section through the female member of the mold, showing a sheet of cellophane bridging the depression in the mold. Figure 4 shows the male member of the mold conforming the sheet of cellophane. Figure 5 shows the practically finished receptacle with the contents in place and the reinforcing element of the bottom resting upon the contents;

Figure 6 is a plan view of Figure 5;

Figure 7 is a plan view showing the first step of folding the cellophane over the reinforcing element while the package is still in the mold;

Figure 8 is a plan view showing the second folding step;

Figure 9 is a bottom plan view of the finished package showing the label by means of which the free portions of the cellophane are adhesively retained, a portion of the label being shown torn away and the fold which was formerly sealed by said torn away portion being shown open to permit withdrawal of the contents; and

Figure 10 is a section taken along the line 10—10 of Figure 9.

Referring now in detail to the several figures: The numeral 1 represents a pillow shaped package containing a plurality of small articles, such for instance as candies. The mass of candies conforms to the shape of the package. The pillow shaped portion of the package is preferably formed from a sheet of transparent material of which cellophane may be considered a desirable example. The bottom of the package is flat as may be observed in Figure 2, the flat shape being secured by folding the flexible transparent sheet 2 over a reinforcing element 3. The folded ends of the transparent sheet are brought together under a label 4. An indication is preferably printed on the label showing where it should be lifted or torn away in order to release one of the folded ends so that the contents of the package can be withdrawn or discharged.

In forming and filling the package, a mold is provided comprising the female member 5 having a depression 6 of the same size and shape as the pillow shaped portion of the package. A sheet 2 of the transparent material is laid over said depression. The male member 8 of the mold has the same contour as that of the depression 6. It is pressed against the transparent sheet 2, as shown in Figure 4, to cause the latter to conform closely to the contour of the mold. The pressure of the male member causes the transparent sheet to be diverted equally in all directions from its

original planar state so that it is substantially smooth throughout its convex portion. The male member of the mold is then withdrawn and the contents poured in any suitable manner. Figure 5 shows the contents 9 in place in the practically finished package. A disc 3 or other suitably shaped piece of cardboard or other stiff material is placed upon the contents of the package. The transparent sheet 2 is then folded over the disc. Figure 7 shows that the four corners 11 of the transparent sheet 2 are first brought together adjacent the center of the disc 3 and then the secondary corners 12 are folded over toward the center, as shown in Figure 8 the multiple thickness of the fold at the base of the secondary corners forming a reinforcement for the base of the package. A label 4 which may be of any suitable size and shape is then pasted over the corners 11 and 12 so as to seal the package and to retain said corners in place.

At a suitable point, the label 4 may have directions for raising or tearing away a portion so as to release one of the secondary corners 12. When this corner is free, a trough 14 is provided through which the contents of the package may be withdrawn, either by shaking them out or by inserting the fingers.

It is obvious that by the present invention a pillow shaped package having a flat bottom is produced and the invention is not confined to a circular shaped package for the mold and the disc can have any form without transcending the spirit and scope of the invention.

What I claim is:

Package, comprising a flexible sheet uniformly diverted in a central portion from a planar state to form a convex chamber, a flat reinforcing element forming the bottom of said chamber, the corner portions of said flexible sheet being folded over said reinforcing element, and the secondary corners thus formed also being folded over said reinforcing element, a sealing sheet pasted over said folded portions, any one of said corners constituting a pouring trough when released from said sealing sheet.

In testimony whereof I affix my signature.

CHARLES C. CHASE.