Nov. 17, 1936. D. E. WRIGHT 2,061,496

COLLAPSIBLE CARTON

Filed March 23, 1936

Fig. 4.

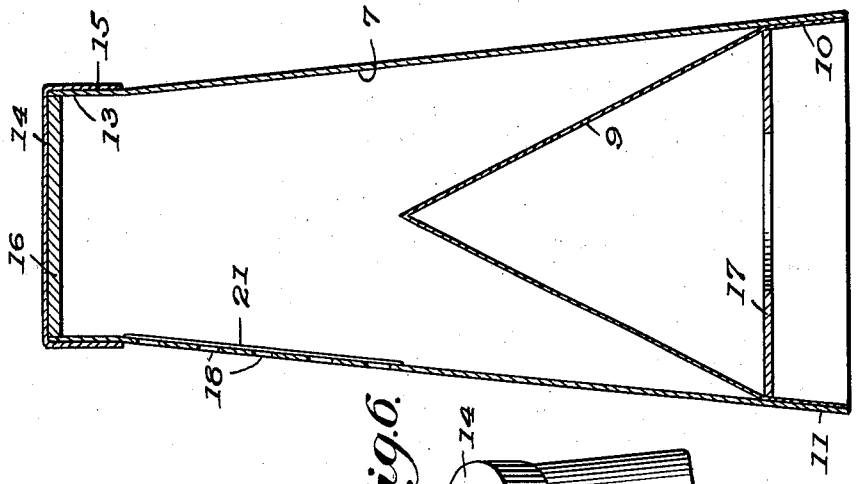


Fig. 1.

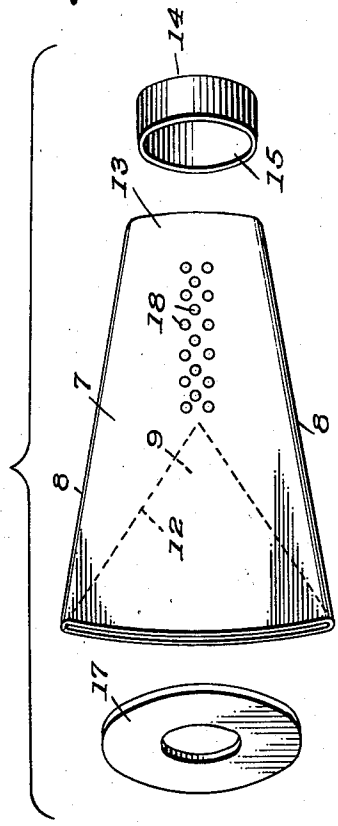


Fig. 2.



Fig. 6.

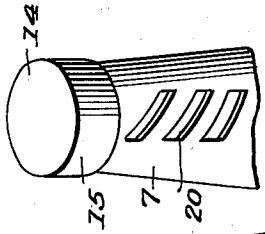


Fig. 3.

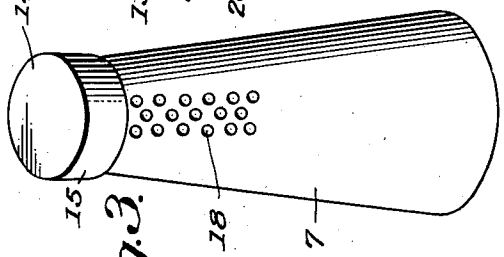
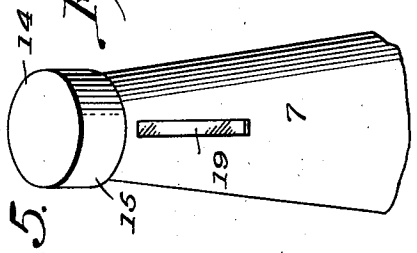


Fig. 5.



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2,061,496

COLLAPSIBLE CARTON

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Application March 23, 1936, Serial No. 70,471

7 Claims. (Cl. 229—4.5)

The present invention relates to paper cartons and consists in the combinations and arrangements of elements hereinafter described and particularly set forth in the accompanying claims.

In the present use of paper cartons, which is wide and quite extended, there is the great disadvantage that the greater number of users thereof are located at points quite remote from the place of manufacture, and consequently it is necessary to ship the merchandise to them in large quantities. This is naturally attended with appreciable cost and employment of unproductive labor, all going to the over-head expense that must be borne by the retailer or distributor, and ultimately by the consumer.

A further disadvantage attending the above condition is that the cartons are manufactured and shipped in the identical form in which used, i. e., the cartons are actually shipped in precisely the form or shape for use, or in other words they are in the shape of maximum capacity and due to the shipment of this unnecessary bulk freight rates or express charges, are in large part wholly unnecessary and this again only adds to the cost to be borne by the retailer and ultimately by the consumer. A further disadvantage is that large space is required for storing any appreciable supply of the cartons ready for use by the average distributor. To overcome these disadvantages the present invention has for its purpose to provide a paper carton which is collapsible to the end that large numbers thereof may be packed at the place of manufacture and so shipped to the retailer who may then use the same only as required thus avoiding needless expense and the necessity for maintaining space required for storage purposes.

The invention is shown by way of illustration in the accompanying drawing wherein:

Figure 1 is an elevational view showing the carton parts disassembled, and with the container portion collapsed.

Figure 2 a longitudinal sectional view thereof.

Figure 3 an elevational view showing the carton in set-up position ready for filling.

Figure 4 an enlarged and central sectional view of the carton in set-up position.

Figure 5 an elevational view showing the carton with a modified form of inspection aperture, and;

Figure 6 a similar view showing a further modified arrangement of inspection aperture.

Referring to the construction in further detail and wherein like reference characters designate corresponding parts in the different figures, the carton consists of a body or container portion 7 constructed preferably of paper and of a size which, when set up, will hold the usual measure of carton in standard sizes. Said body portion is adapted to be collapsed after the manner indicated in Figures 1 and 2, wherein it is folded upon itself along the two medial lines 8 as shown, and in this condition the same are adapted to be packed at the point of manufacture and shipped to places of use.

The container portion or body 7 is constructed preferably after the manner of a truncated cone, and at its base or larger end, is sealed by a single and impervious closure 9 hollow like or conical in shape and having an appreciable marginal portion 10 secured to the inner peripheral surface 11 by suitable adhesive as indicated in Figure 4. The conical closure portion 9 is also folded upon itself along medial lines 12, as in Figure 1, and it will be noted that the folded or double edged portions of the body 7 and closure part 9 lie in substantially the same plane as clearly shown in Figure 2.

The open or smaller end 13 of the body 7 is provided with a removable cap 14, constructed preferably of the same material as carton body 7, and has a flange 15 that fits snugly about the side of the container end 13. Said cap or closure is preferably provided with a re-enforcing disc member 16 suitably secured to its inner surface, though of sufficiently less diameter to provide an annular groove or channel way that receives the marginal edge of the wall portion 13 as shown. With this arrangement it will be evident that a tight and effective seal is maintained between the removable cap and the carton.

The closed and larger end of the carton is also provided with a re-enforcing element in the nature of an apertured disc 17 that fits tightly within the open base portion as in Figure 4, and has its peripheral edge lying in intimate contact with the carton wall 7 substantially along the circumferential line of union between the flange portion 10 and said wall. It will be understood that the re-enforcing disc 17 is adapted to be placed in position when the carton is shaped into its open or cylindrical form preparatory to filling.

The invention further contemplates a means for inspecting the approximate contents therein and to this end the body 7 has a plurality of apertures 18 arranged in staggered relation so as to provide a substantially continuous opening, or in lieu of several apertures 18 a single slot 19 may be provided, or a series of diagonally disposed slots 20 may be formed as shown in Figure 6. In this latter instance the upper edge of a lower slot is in horizontal alinement with the lower edge of

the next slot above thus presenting a continuous opening, and a strip of transparent material 21, e. g. cellophane or the like overlies the inner surface of the carton covering said slots as shown.

It will be understood the invention as herein disclosed is not limited to the details of construction shown and described since these may be varied widely without departing from the spirit of the invention as defined by the claims.

What is claimed as new is:

1. A carton of the character described comprising a two sided and cylindrical collapsible body portion, an impervious foldable and hollow shaped bottom piece secured thereto around its peripheral edge, and a removable closure member, substantially as set forth.

2. A carton of the character described comprising a cylindrical and collapsible body portion, an impervious foldable and hollow shaped bottom piece secured thereto around its peripheral edge, and a removable closure member, substantially as set forth.

3. A carton of the character described comprising a cylindrical and collapsible body portion, an impervious conical and foldable bottom piece secured thereto, and a removable closure member, substantially as set forth.

4. A carton of the character described comprising a collapsible body portion of truncated conical form open at its smaller end, an impervious conical and foldable piece secured to and closing the larger end thereto, and a removable closure member for the open end, substantially as set forth.

5. A carton of the character described comprising a cylindrical body portion foldable medially upon itself into a substantially flat piece, an impervious conical and foldable piece secured to and closing one end of said body portion, and a removable closure member for the open end, substantially as set forth.

6. A carton of the character described comprising a cylindrical body portion foldable medially upon itself into a substantially flat piece, a conical and foldable piece secured to and closing one end of said body portion, and a re-enforcing disk fitting within the body portion at the closed end when the carton is distended, substantially as set forth.

7. A carton of the character described comprising a collapsible body portion of truncated conical design, a foldable and hollow shaped closure piece secured to the larger end thereof around its peripheral edge, a removable closure cap for the smaller end, and a removable disk for the larger end, said cap and disk adapted to reinforce and hold the carton in distended or open position, substantially as set forth.

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