

June 5, 1928.

1,672,623

T. RAY

CARTON

Filed Sept. 28, 1922

Fig. 1.

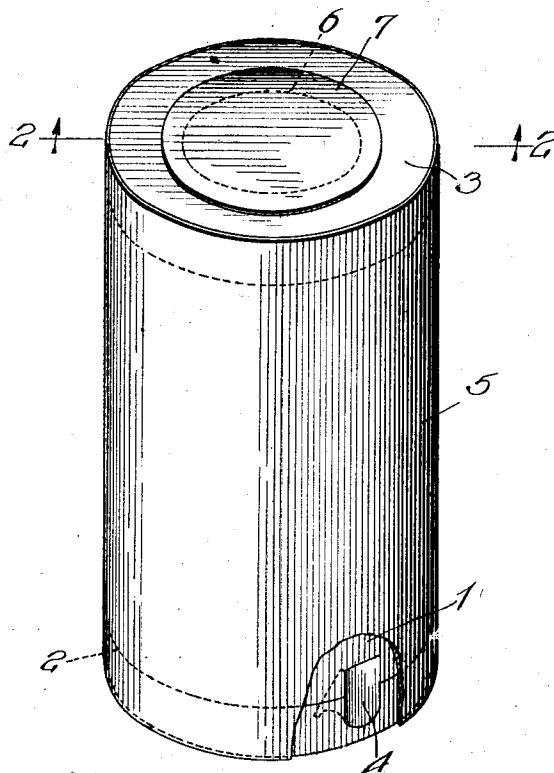


Fig. 2.

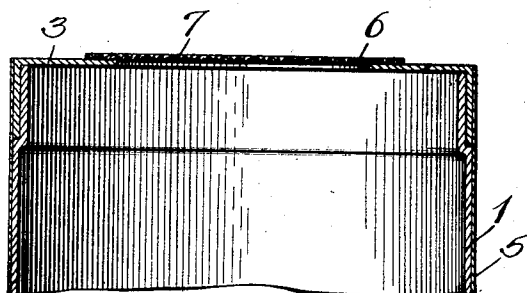


Fig. 3.

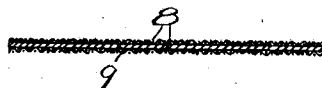
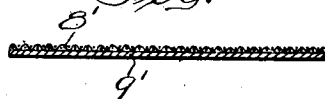


Fig. 4.



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UNITED STATES PATENT OFFICE.

THOMAS RAY, OF MANISTEE, MICHIGAN.

CARTON.

Application filed September 28, 1922. Serial No. 591,104.

My invention relates to improvements in cartons, and particularly to those cartons used for dry granular products, such as salt, sugar, cleaning powders, or the like.

When such cartons are provided with pouring spouts thereon, the cartons are completely assembled and labeled before filling, and the filling is done through the pouring spout, but as this spout is very small, it requires a considerable length of time to fill the carton. After filling, the cartons are sealed at the pouring spouts and then packed in boxes for shipment.

By means of my improvements the cartons are completely assembled with the labels thereon, and the pouring spout sealed, and the cartons are then filled through a large opening provided therein independent of the pouring spout opening, after which these filling openings are sealed. By making the filling openings comparatively large, the speed of filling may be regulated to as high a degree as desired.

The invention has among its other objects the production of a device of the kind described which is simple, convenient, compact, neat and attractive in appearance, and reliable and satisfactory for use wherever found applicable.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosures herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claim.

In the drawings, wherein like reference characters indicate like or corresponding parts,

Fig. 1 is a perspective view, bottom end up, of my improved carton as it appears when filled and completely sealed for shipment.

Fig. 2 is a sectional view taken substantially on the line 2—2 of Fig. 1, and

Figs. 3 and 4 are sectional views of modified forms of closures.

In the drawings, wherein I have illustrated the preferred embodiment of my invention, there is shown a carton having a tubular body part 1 with top and bottom ends 2 and 3, respectively, permanently secured thereto in any suitable manner to make a unitary structure. A pouring spout 4 is

shown as provided on the carton, through which the contents of the carton may be emptied by the user. This pouring spout may be arranged at one end or on the side and is preferably movable to operative or inoperative position in the preferred manner. In practice, the body part and ends are preferably first assembled as shown in Fig. 1, with the pouring spout 4 in place, and a label 5 is then wrapped about the body part of the carton preferably to completely cover the pouring spout so that it is also sealed.

In use, the consumer removes that portion of the label covering the pouring spout, whereupon the pouring spout may be manipulated in the desired manner. Ordinarily the top and bottom ends are made imperforate, except in those cartons wherein the spout is provided in an end instead of along the side, and the carton is filled through the pouring spout, but as this opening is comparatively small, it requires a long time to fill the carton.

In my improved device, one of the walls of the carton, preferably the bottom wall 3, is provided with an enlarged aperture there-through, through which the filling material may be poured into the carton. A closure member 7, preferably in the form of a flat disk of suitable material, is secured in place over the opening 6, by pasting or the like, after the filling has been completed and the filled carton may then be packed in boxes for shipment. These closures 7 may be of any desired material, reinforced, in layers or in a single layer, but I have found it satisfactory and highly desirable to make them either wholly or partially of fabric. When adhesive is applied between the contacting surfaces of the closure and the carton, these parts are pressed together and an airtight joint will be effected.

In Figs. 3 and 4 I have illustrated modifications of the closure member,—that shown in Fig. 3 being made of a plurality of layers, the outer layers 8 being of fabric and the intermediate layer 9 of paper or other suitable material. In Fig. 4 the fabric 8' is secured only to one side of the paper disk 9'.

This construction not only facilitates filling, but it makes handling easier and permits the use of labels that might not otherwise be usable. The package may be completely finished empty, ready for filling, except for the closure, and this may be done very conveniently after the box is filled. It

is immaterial where the spout is located, or whether a spout is used, or whether the top is a sifting top as commonly used on the boxes in which scouring and like powders are
5 contained.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction,
10 arrangement and combination of parts herein shown and described or uses mentioned.

What I claim as new and desire to secure
15 by Letters Patent is:

A carton for powdered material comprising a body portion; closures for the ends of the body portion; a pouring spout through which the entire contents of the container
20 may be dispensed mounted in the wall of the

body portion adjacent one end for swinging movement and normally lying in a closed position against the outer surface of the body portion, but movable away from the wall into the opened position; a label affixed to
25 the carton and arranged to seal the spout in its closed position and to permanently secure the enclosures in place, whereby the body portion, end closures, and the pouring spout may be assembled in the condition they
30 will be in when the filled carton is ready for sale, at the time the carton is manufactured; said carton having a filling aperture formed therein at a point removed from the label, and a disk pasted on said carton to close the
35 filling aperture after the carton is filled.

In testimony whereof, I have hereunto signed my name.

THOMAS RAY.