

Aug. 5, 1952

A. E. MARSHALL
DISPENSING CONTAINER

2,605,933

Filed Aug. 24, 1949

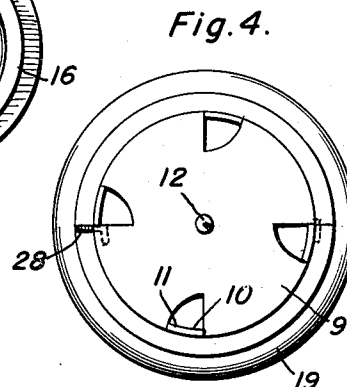
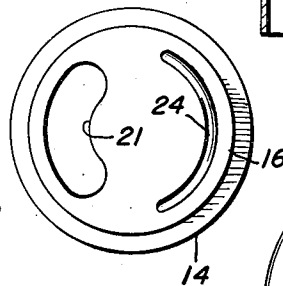
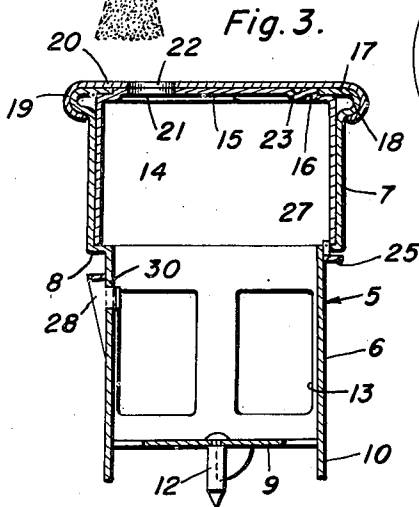
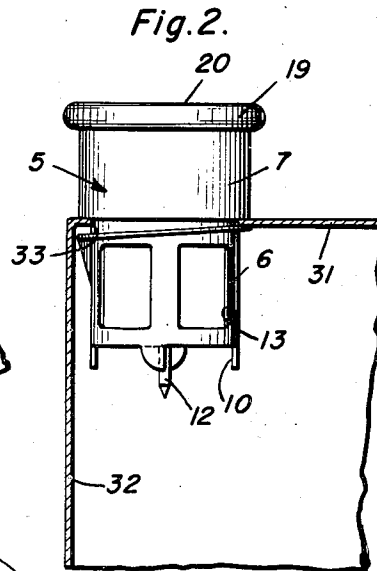
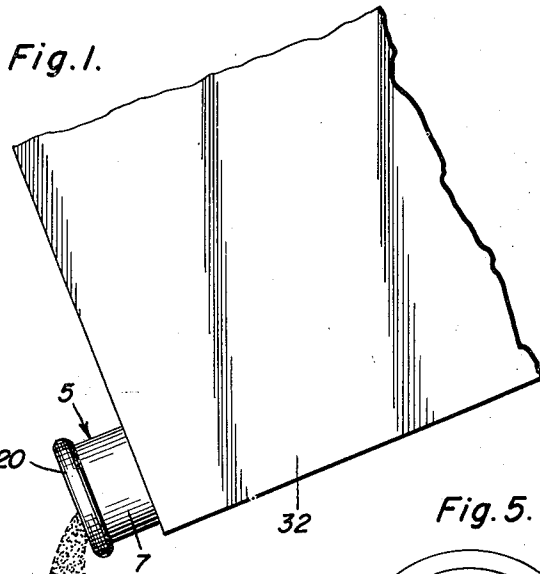


Fig. 7.

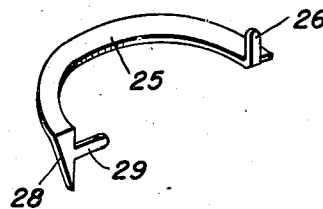
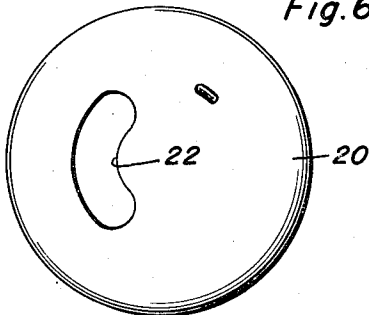


Fig. 6.



Aldon E. Marshall
INVENTOR.

BY *Clarence A. O'Brien*
and *Harvey B. Jacobs*
Attorneys

UNITED STATES PATENT OFFICE

2,605,933

DISPENSING CONTAINER

Aldon E. Marshall, Bronx, N. Y.

Application August 24, 1949, Serial No. 112,156

2 Claims. (Cl. 222-91)

1

The present invention relates to new and useful improvements in dispensing containers and more particularly to a pouring spout mounted in position in a wall of a container for pouring the contents therefrom.

An important object of the invention is to provide novel means for anchoring the pouring spout in the top of a container and providing a rotatable cap for the spout to close the spout, when not in use, whereby to prevent accidental spilling of the contents and also to maintain the contents in a sanitary and fresh condition.

Another object of the invention is to provide a pouring spout for cardboard and similar containers with cutters carried by the spout for cutting an opening in the container to attach the spout thereto.

A still further object is to provide a device of this character of simple and practical construction, which is efficient and reliable in operation, neat and attractive in appearance, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a fragmentary perspective view showing the spout in pouring position in a container;

Figure 2 is a fragmentary vertical sectional view;

Figure 3 is a vertical sectional view of the pouring spout removed from the container;

Figure 4 is a bottom plan view thereof;

Figure 5 is a top plan view of the inner cap for the spout;

Figure 6 is a top plan view of the outer cap for the spout; and

Figure 7 is a perspective view of the locking member for holding the spout in the top of the container.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates the pouring spout generally and which comprises an inner tubular portion 6 and an outer tubular portion 7, the latter being of a diameter greater than that of the inner tubular portion to form a shoulder 8 at the junction thereof.

The inner tubular portion 6 is provided with a bottom 9 from which cutters 10 are punched

2

downwardly in the vertical plane of the sides of the inner portion 6 of the spout, the cutters being formed with a curved cutting edge 11. A pointed pin or prong 12 is riveted to the central portion of bottom 9 to project downwardly therefrom to a point below the lower edge of cutters 10. The sides of the inner portion 6 of the spout are formed with openings 13.

An inner cap 14 is telescopically fitted in the outer portion 7 of spout 5 and is suitably held in a stationary position relative thereto, the inner cap 14 including a top 15 formed with a step 16 inwardly of the edge of the cap and with which an intumed flange 17 at the upper end of outer portion 7 of the spout is engaged to hold the inner cap 14 in position in the outer portion 7 of the spout. The upper end of the outer portion 7 is also formed with a beading 18 and with which a downwardly and inwardly curved lip 19 on an outer cap 20 is engaged to hold the outer cap in rotatable position on the outer portion 7 of the spout.

The top 15 of inner cap 14 and the top of outer cap 20 are formed with registering arcuate openings 21 and 22, respectively, and a stop lug 23 projects downwardly from the underside of outer cap 20 for traveling in an arcuate groove 24 in the surface of top 15 of inner cap 14 to limit rotation of outer cap 20 after the latter has been moved into its open or closed position.

An arcuate locking member 25 is mounted in an inclined position on spout 5 immediately below the shoulder 8, one end of locking member 25 being formed with an upstanding tongue 26 engaged in an opening 27 in shoulder 8 and the other end of locking member 25 is formed with a downwardly extending tapered cutter 28 having a bendable tongue 29 projecting inwardly therefrom and engaged in an opening 30 in lower portion 6 of the spout to hold the locking member 25 in position thereon.

In the operation of the device, prong 12 is inserted in the top 31 of a cardboard container 32 and using prong 12 as a pivot the spout is rotated in a direction to cut an opening 33 in the top of the container to enable insertion of the inner portion 6 of the spout therein as shown in Figure 2 of the drawings.

During the insertion of inner portion 6 into the container, cutter 28 is forced downwardly at one edge of opening 33 to cut a slot (not shown) therein, to enable cutter 28 to pass under the top 31 of the container and by partially rotating spout 5 the inclined locking member 25 will bind against the underside of top 31 to draw

3

shoulder 8 closely on top of the container to thus lock and seal the spout in the opening 33.

When the container 32 is inverted, the contents will enter the inner portion 6 of the spout through the openings 13 and by turning outer cap 20 into its open position the contents may be poured from the spout.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A pouring spout comprising relatively large and small tubular portions joined together end to end and forming at the juncture thereof a circumferential external shoulder on the small portion, said shoulder having a slot therein and said small portion having a side slot therein remote from said shoulder, end cutter means on the small portion for cutting an opening into a container, and an arcuate locking member carried in an inclined position by said small portion for camming coaction with the edge of the opening

4

by rotation of the spout whereby to draw said shoulder against said container, said member having end attaching lugs thereon engaging said slots to hold said member in place.

2. A tubular pouring spout having a lower cutting end for cutting an opening into a container, said spout having a circumferential external shoulder above said cutting end, said shoulder having a slot therein and said spout having a circumferential slot therein below and remote from said shoulder, and an arcuate locking member carried in an inclined position by said spout below said shoulder for camming coaction with the edge of the opening by rotation of said spout whereby to draw said shoulder against said container, said member having end attaching lugs engaging said slots to hold said member in place.

ALDON E. MARSHALL.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
766,083	Watts	July 26, 1904
1,345,975	Wilcox	July 6, 1920
1,405,638	Strongson	Feb. 7, 1922
1,868,930	Thompson	July 26, 1932
1,883,451	Angeletti	Oct. 18, 1932
2,117,408	Dickey	May 17, 1938
2,125,805	Peddicord	Aug. 2, 1938