July 2, 1935. E. M. SARGENT 2,006,722

CONTAINER

Original Filed Feb. 20, 1933

FIG. 2

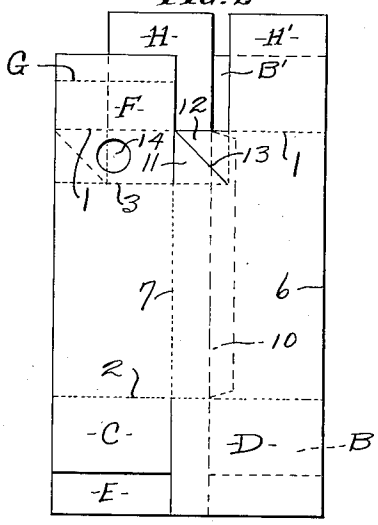


FIG. 1

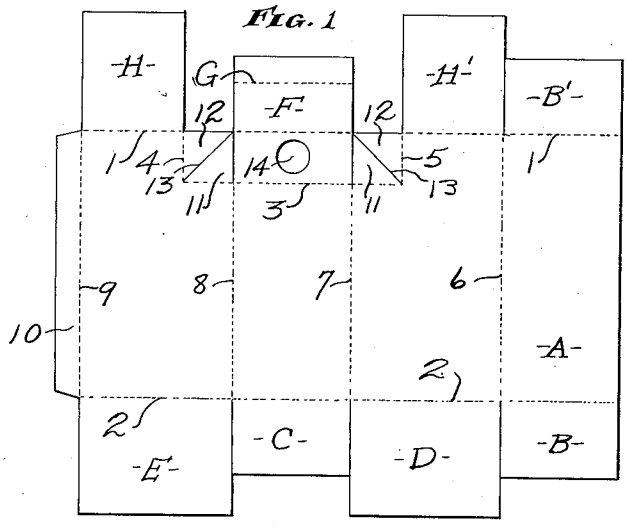


FIG. 3

FIG. 6

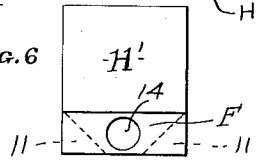


FIG. 5

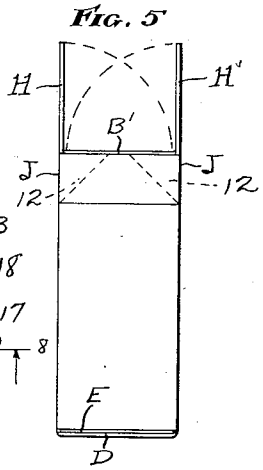


FIG. 4

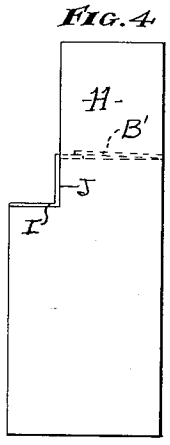


FIG. 7

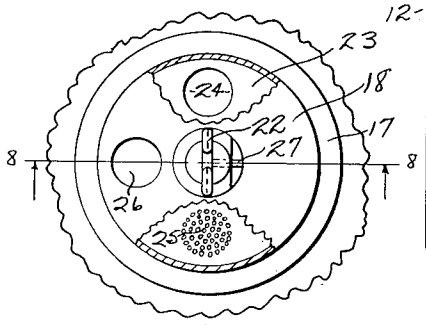


FIG. 9

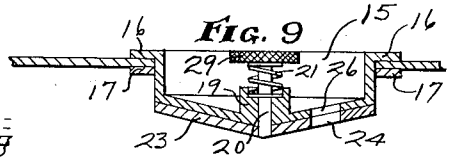
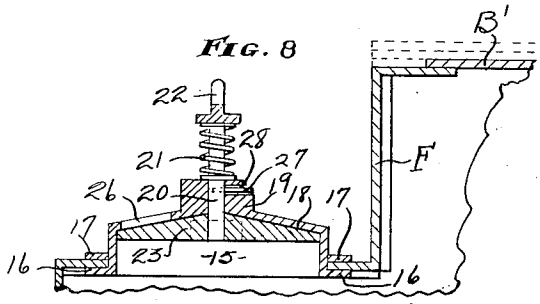


FIG. 8



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Patented July 2, 1935 2,006,722

UNITED STATES PATENT OFFICE

2,006,722

CONTAINER

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Application February 20, 1933, Serial No. 657,528
Renewed November 22, 1934

2 Claims. (Cl. 221—64)

My invention relates to improvements in containers.

The object of my invention is to provide a container with a recess for a valve to permit stacking of the containers in vertical alignment.

A further object of my invention is to provide a valve arranged in a wall of a container in such a way as not to interfere with the handling of other containers stacked with the first one for display or packed for shipping.

A still further object of my invention is to provide a valve rotatably arranged to present sprinkling or pouring means for dispensing the contents of the container such as salt or other powdered substance by turning to registry with an aperture a similar aperture or a finely perforated area equal to the aperture at the option of the operator and to close the first mentioned aperture when in a neutral position.

A still further object of my invention is to provide a container collapsible as convenient means to pack and ship the same, and easily prepared for filling.

These and other objects will hereinafter be more fully explained, reference being had to the accompanying drawing forming a part of this specification, and in which like characters will apply to like parts in the different views.

Referring to the drawing:

Fig. 1 is a plan view of the body of the container prior to folding.

Fig. 2 is a view of the container partially folded and collapsed.

Fig. 3 is an end view of Fig. 2, partially collapsed.

Fig. 4 is a side view of the container assembled, the lid members being open.

Fig. 5 is a transverse view of Fig. 4.

Fig. 6 is a top plan view of the container, the lid being closed and the valve removed.

Fig. 7 is an enlarged plan view of the valve and a fragmentary portion of the container.

Fig. 8 is a sectional view taken on line 8—8 in Fig. 7.

Fig. 9 is a modified form of the valve partly in section.

My invention herein disclosed consists of a body portion comprising a plurality of projections severed from each other to folding points 1 and 2 as shown by dotted lines, one of said projections being arranged to provide a recess when properly folded on dotted lines 3, 4, and 5. To form the side walls of the container, the body portion will fold on dotted lines 6, 7, 8, and 9 to a rectangular form in cross section and be secured together by a flap 10 arranged to lap on the inner side of wall member A and be secured therein by adhesive substance.

When thus formed, the bottom is closed by interlapping end portions B and C that fold toward each other, and are overlapped by end portions D and E, the latter two being secured to each other by adhesive substance.

The top of the said container being closed as follows:

Arranged in one side of the container near the upper end is a right angled recess formed by severing end portion F on its marginal edges downward to dotted line 3, and then bending it inward and then upward on line 4, and then transversely on dotted line G to underlap projection B' loosely engaging and bound in position by the overlapping projecting end portions H and H', the latter portions being secured together by adhesive substance.

To secure the corner portions I and J from separation and against leakage, I provide flaps 11 and 12 by cutting the material on diagonal lines 13 and then bend the flaps inward on dotted lines 3, 4, and 5 and secure the same by adhesive substance to their adjacent portions of member F as shown by dotted lines in Figs. 5 and 6.

Concentrically positioned in the base portion of the recess is an aperture 14 extending therethru and arranged to receive a valve dispensing means arranged as follows:

The valve consists of a cylindrical housing 15 having a flange 16 on the outer end thereof to bear on the under side of the peripheral edge of the aperture, and is secured therein by an annular ring 17 snugly fitting on the cylindrical portion when forced to engagement with the base portion of the recess. The other end of the cylindrical housing has a conical enclosure head 18 therefor, and has a hub 19 at the frustum and integral therewith, said hub being axially bored to receive a shaft 20 to revolve therein.

Wound on the shaft is a spring 21 to engage on the outer end of the hub and the under side of a wing 22 as turning means for the shaft, by which means a disc valve 23 is tensioned to snug engagement with the inside of the said conical head, said valve conforming thereto in shape.

It will be understood that the said valve is secured to the lower end of the said shaft and turned thereby.

Extending thru the valve member and near the peripheral edge thereof is an aperture 24, and oppositely disposed on the diametrical axis is an equal area to the said aperture perforated

as shown at 25, said perforations being distributed for the purpose of sifting the contents of the container, while the aperture is arranged to pour freely the contents, the respective function being possible when either the aperture or perforated portion is turned to register with an aperture 26 passing thru the conical head of the cylindrical housing.

As a means to properly register the sifter or aperture in the valve disc with the aperture 26, I have arranged a pin 27 secured to the said shaft 20 and radially extending therefrom in a slot 28 cut in the said hub to the diametrical axis thereof, the terminating ends of which are stopping points for the pin when rocked reciprocatingly, the stopping points being the means to properly register the sifter or apertured opening with aperture 26, and when the pin is turned at right angles to the stopping points the valve is closed as shown in Figs. 7 and 8.

As a modification of the valve, I have inverted the same placing the valve turning member on the outside of the conical head with respect to the cylindrical body, the shaft of the valve extending outward and having a similar spring and a knurled head 29 to turn the valve, by which means the requirement of a recess is eliminated as the last said valve may be placed directly in the end of a container, and such other modifications may be employed as lie within the scope of the appended claims, and having fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A device of the class described comprising a closed container having walls formed to provide a recess at one corner of the container and an opening in one wall of the said recess, a valve arranged within said valve opening within the limits of said recess, and means to secure the valve in operative position, the valve consisting of a cylindrical housing having a conical head with an aperture near the peripheral wall of the housing, a disc having an aperture and a perforated portion positioned diametrically opposite with respect to the center axis, means to turn the disc selectively to bring its aperture or its perforated portion in registry with the aperture in the head, means to stop the disc when brought to proper registry as described, and means to cause close engagement of the disc and the head to avoid leakage when the valve is closed.

2. In a container having an aperture in the wall of one end, a valve arranged within the aperture, and means to secure the same therein, said valve including a housing having an aperture eccentrically positioned, a disc trunnioned in the housing, the disc having an aperture eccentrically positioned and a perforated portion oppositely positioned to the aperture with respect to the axis of the disc, means to turn the disc to bring the aperture or the perforated portion into register with the opening in the housing, and means to stop the disc for proper registration of the aperture or the perforated portion with the aperture in the housing.

EDWIN M. SARGENT