

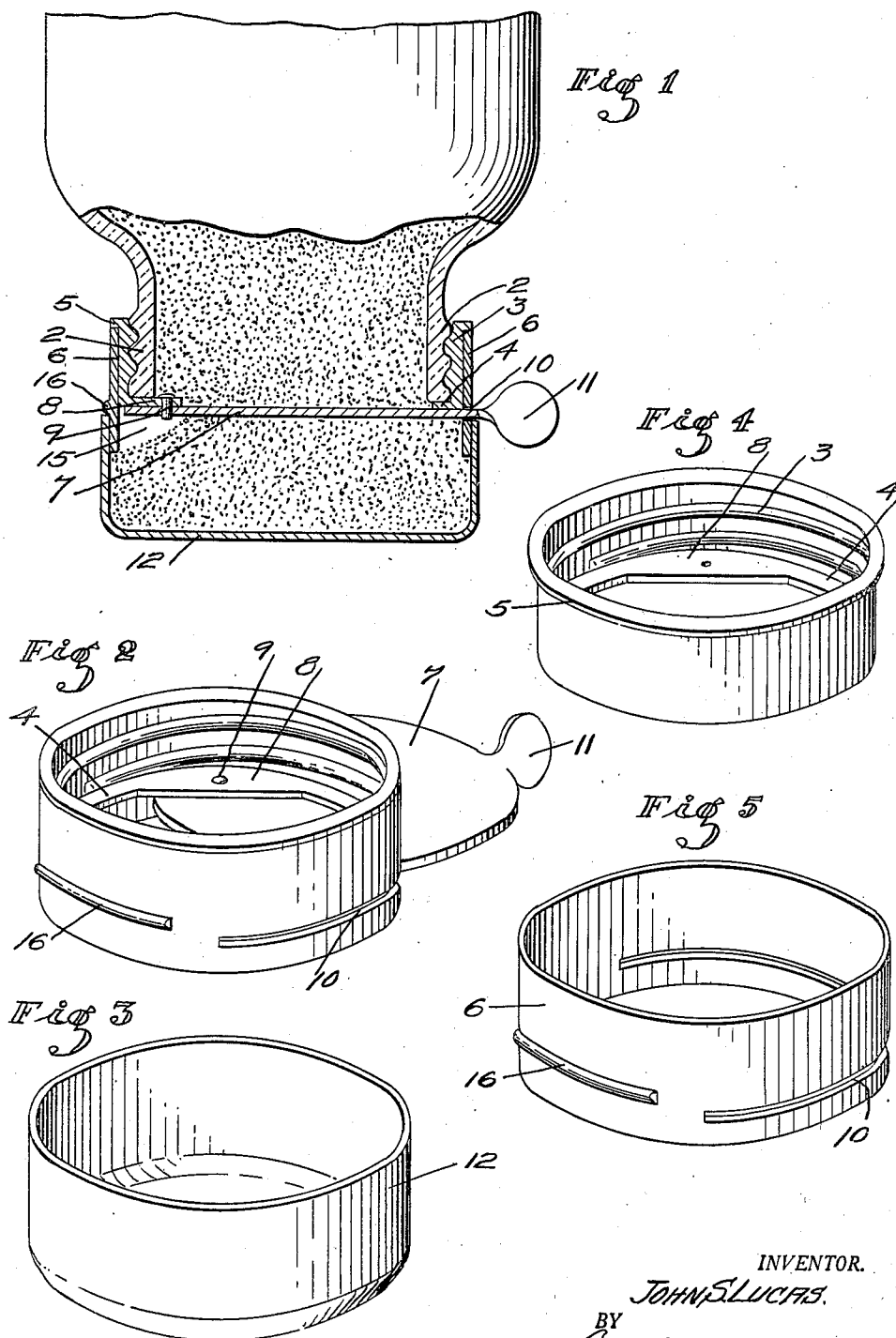
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COMBINATION COVER AND MEASURING DEVICE

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COMBINATION COVER AND MEASURING
DEVICE

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6 Claims. (Cl. 221-95)

This invention relates to a combination cover and measuring device which is applicable to glass jars and other containers having a screw threaded neck.

The object of the present invention is generally to improve and simplify the construction and operation of devices of the character described; to provide a cover wherein is mounted a disc valve movable from closed to open position or vice-versa by a handle projecting from the exterior of the cap; to provide a measuring cup which also functions as a secondary cover and which is removable to dispense a measured quantity of material from the container; and, further to provide a structure which is so designed that it becomes possible to mould or otherwise form the several parts of the device from plastics or similar materials.

The combination cover and measuring device is shown by way of illustration in the accompanying drawing in which:

Fig. 1 is a sectional view of the combination cover and measuring device showing it applied to the screw neck of a container;

Fig. 2 is a perspective view of the device removed from the container;

Fig. 3 is a perspective view of the measuring cup;

Fig. 4 is a perspective view of the internally threaded collar; and

Fig. 5 is a perspective view of the disc valve retaining sleeve.

Due to the shortage of tin or similar metal, coffee and other containers are now being made in the form of glass jars and the jars are provided with a neck having an exterior screw thread such as shown at 2. The coffee or other material after it is packed in a container, is sealed by a gasket and an ordinary screw cover.

The purpose of this invention is to provide a device which will function as a cover for the container after the original cover has been removed and which will also function as a measuring and dispensing device for the coffee or other granular or like material contained in the container.

The device consists of a collar (see Fig. 4) having an internal thread 3 formed thereon so that it may be screwed over the neck of the container. One end of the collar is provided with an internal flange 4 which engages the end of the neck of the container and the other end of the collar is provided with an outwardly extending flange 5. Telescoping over and secured to the exterior of the collar by a press-fit or by shrinking or other-

wise is a sleeve 6 (see Fig. 5). One end of the sleeve abuts the flange 5 when it is applied to the collar, and said flange accordingly serves as a stop therefor. The other end of the sleeve extends beyond the collar and as such forms a housing in which is mounted a disc valve 7. One side of the collar flange is extended inwardly as shown at 8 and carries a pin 9 which extends through a perforation formed in the disc valve. The valve swings about the pin as a pivot and in order to permit such swinging movement, a slot 10 is formed in the sleeve. The valve has a handle 11 formed thereon which extends through the slot and when this handle is grasped, the valve may be swung outwardly through the slot as shown in Fig. 2 to permit the contents of the container to be dispensed. A cup 12 (see Fig. 3) is adapted to be received by the sleeve and functions both as a measuring cup and as a secondary cover for the container.

The whole device is exceedingly simple in construction. It is made up of four parts, to wit, the collar shown in Fig. 4; the sleeve shown in Fig. 5; the disc valve shown in Figs. 1 and 2 and the cup shown in Fig. 3. The several separable parts are so designed that they may readily be moulded from plastic materials or stamped out and formed by dye operations from treated fiberboard, paper or sheet metal when this is available.

The parts are assembled as follows:

The disc valve 7 is first inserted in the slot of the sleeve 6 in a position where the perforation will align with the pivot pin 9. The sleeve is then pressed over the collar, and when it engages the stop flange 5 it is in proper position. At this time the pin will pass through the perforation of the disc valve and the lower side of the slot will at the same time engage the lower face of the disc valve with sufficient pressure to create a desired friction against accidental opening or closing of the disc valve. The cup shown in Fig. 3 may then be applied as shown in Fig. 1 and the assembly is completed.

When purchasing a jar of coffee or the like, the original cover and sealing gasket may be removed and the device here shown screwed in place. Whenever it is desired to remove or dispense the measured quantity of coffee, the whole device is inverted as shown in Fig. 1, the disc valve is swung open and the coffee will thus substantially fill the cup. The valve is then swung back to closed position and the cup may be removed and the contents emptied. This operation may be repeated as many times as necessary.

It should be noted by referring to Fig. 1 that the extension 8 on the collar which carries the pivot pin 9 forms a partial cover over the cup, thus when the valve is opened and the coffee is pouring from the container into the cup, there will be a void or partially unfilled space such as indicated at 15. This is desirable as when the cup is removed there will be little tendency for the contents to spill over the edge. The slot formed in the sleeve extends substantially half way around the sleeve and around the other half may be formed a bead 16 to prevent the cup or secondary cover from assuming a cocked position. When the device is not in use, the container may be placed on a shelf in an upright position, and in that position the contents of the container is not only closed by means of the disc valve, but also by the secondary cover or measuring cup and as such there is little chance of the contents becoming contaminated either by dust, moisture, insects or otherwise. While the device has been particularly described in connection with a coffee container, it is obvious that it may be applied to containers of any character which contain powdered or granulated substances. I further wish it understood that changes may be resorted to within the scope of the appended claims, and that the materials and finish of the various parts employed may be varied according to what the experience of the manufacturer and varying conditions of use may demand.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In a combination cover and measuring device a collar having an internal thread formed thereon adapting it to be attached to a container having a threaded neck at one end having an inturned flange to bear against the outer end of the threaded neck, a sleeve extending from said collar beyond said flange and having a slot formed therein adjacent said flange, a disc valve within the sleeve pivoted on said flange and normally forming a closure for the collar and adapted to be swung outwardly through the slotted sleeve when material is to be dispensed from the container.

2. In a combination cover and measuring device, a collar having an internal thread formed thereon adapting it to be attached to a container having a threaded neck, a sleeve extending from said collar and having a slot formed thereon, a disc valve within the sleeve and normally forming a closure for the collar, said disc being pivoted to the collar and adapted to be swung outwardly through the slotted sleeve when material is to be dispensed from the container, and a measuring cup adapted to telescope over the sleeve to receive and measure material dispensed from the container, said sleeve having an exterior rib engageable by the cup to prevent a cocked position of the latter with relation to the sleeve.

3. In a combination cover and measuring device, a collar having an internal thread formed thereon adapting it to be attached to a container having a threaded neck, a sleeve extending from said collar and having a slot formed thereon, a disc valve within the sleeve and normally forming a closure for the collar, said disc being pivoted to the collar and adapted to be swung outwardly through the slotted sleeve when material is to be dispensed from the container, a

measuring cup adapted to telescope over the sleeve to receive and measure material dispensed from the container, and an inturned flange on the collar engageable with the outer end of the threaded neck and having a portion forming a partial extension over the cup to prevent complete filling of the same.

4. In a combination cover and measuring device, a collar having an internal thread formed thereon adapting it to be attached to a container having a threaded neck, an inwardly turned flange on the collar to engage the outer end of the neck, a sleeve secured to the collar and extending beyond the same, said sleeve having a slot formed therein adjacent said flange, a disc valve within the sleeve lying normally against said flange and normally forming a closure for the collar, an extension on the collar flange to which the plate is pivotally attached, a handle on the plate projecting through the slot in the sleeve whereby the disc valve may be swung about the pivot to uncover the collar and permit dispensing of material from the container, and a measuring cup telescoping over the sleeve to receive and measure material dispensed from the container, said extension on the collar flange forming a partial cover over the measuring cup to prevent complete filling of the measuring cup.

5. In a combination cover and measuring device, a collar having an internal thread formed thereon adapting it to be attached to a container having a threaded neck and at one end having an outwardly turned annular flange and at its opposite end having an inwardly turned flange to engage flush with the outer end of said neck, a sleeve tightly embracing said collar and having one end engaging said outwardly turned flange of the collar and at its other end extending beyond said collar and having a slot therein adjacent said flange of the collar, a disc valve within the sleeve pivoted on said flange which engages the end of the neck and normally forming a closure for the collar and adapted to be swung outwardly through the slotted sleeve when material is to be dispensed from the container.

6. In a combination cover and measuring device, a collar having an internal thread formed thereon adapting it to be attached to a container having a threaded neck and at one end having an inwardly directed flange to bear against the outer end of the threaded neck, a sleeve fitted tightly on said collar and extending therefrom at one end beyond the flange of the collar and adjacent the flange having a slot therein, a disc valve within the sleeve pivoted on said flange and normally forming a closure for the collar, a handle for the disc whereby to swing the disc outwardly through the slot of the sleeve when material is to be dispensed from the container, an exterior rib on the sleeve substantially opposite said slot, and a measuring cup adapted to telescope over the sleeve to receive and measure material dispensed from the container and to cooperate with the disc valve to provide a double closure for the container when the latter is not being used for dispensing purposes, the cup being engageable at its inner edge with said rib and said disc valve at the juncture of the handle with the latter when in closure relation with the sleeve to prevent a cocked position of the cup on the container.

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