

May 12, 1925.

1,537,408

F. H. COGSWELL

COMBINED DISPENSING SPOUT AND SHAKER FOR CANS OR BOXES

Filed July 26, 1924

Fig. 1.

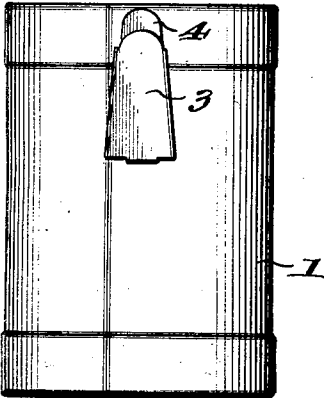


Fig. 2.

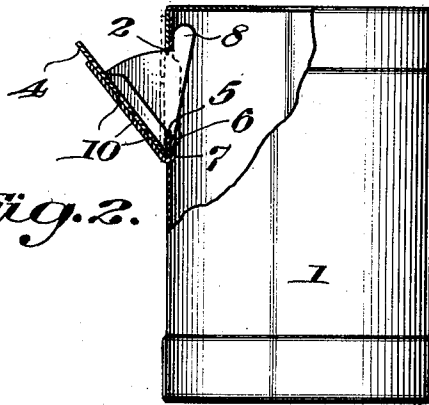


Fig. 3.

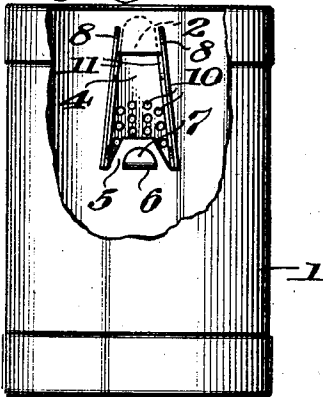


Fig. 4.

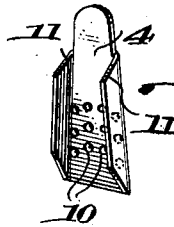
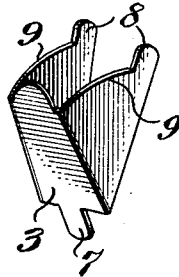


Fig. 5.

Fig. 6.

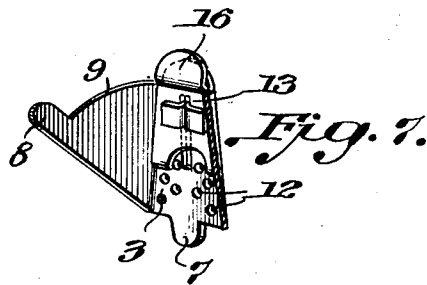
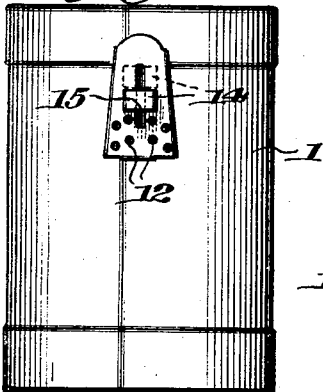
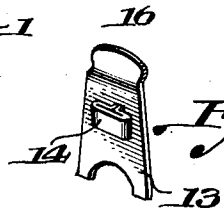


Fig. 7.

Fig. 8.



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UNITED STATES PATENT OFFICE.

FRANK H. COGSWELL, OF MANISTEE, MICHIGAN.

COMBINED DISPENSING SPOUT AND SHAKER FOR CANS OR BOXES.

Application filed July 26, 1924. Serial No. 728,458.

To all whom it may concern:

Be it known that I, FRANK H. COGSWELL, a citizen of the United States, residing at Manistee, in the county of Manistee and State of Michigan, have invented certain new and useful Improvements in Combined Dispensing Spouts and Shakers for Cans or Boxes, of which the following is a specification.

10 This invention relates to a combined dispensing spout and shaker for cans or boxes adapted for containing salt, sugar, spices, or other granular or pulverized material.

Generally stated, the invention has for its 15 object the provision of a spout and shaker or sifter of novel construction and combination whereby the contents of the box or can may be dispensed through a single opening in the container so as to flow in a stream into, and 20 from, the spout, or, to be sifted to permit dispensing in a number of fine streams.

Further objects are, first, to provide an improved spout and sifter which, when closed, 25 will exclude moisture from the interior of the box or can; second, one wherein provision is made for permitting the draining or dropping back into the can or box of such granules or particles of material as might otherwise remain in the spout to prevent it 30 from being closed tightly; third, one wherein the contents of the box will be held back, to prevent spilling, when the device is used as a sifter; fourth, to provide a novel spout and sifter, mounted for swinging to permit 35 free pouring, when desired, with adaptability for arranging the sifter so that only fine streams will be dispensed; fifth, to so combine a swinging spout and gate that the latter will be carried by the former and adapted for setting to convert the device into 40 either a pouring spout or a sifter.

My improvements necessitate only one opening in the side of the box or can, thereby insuring a stronger package than if the 45 spout and sifter were independent of each other and each required its own opening in the container.

Other objects of the invention will appear more fully from the disclosure of certain embodiments thereof hereinafter set forth and which are shown in the accompanying drawings.

I am aware that the principle of the in-

vention may be carried out in other embodiments than those shown and described; 55 therefore, the invention is not to be considered as limited to the details of the embodiments disclosed, except where such details are recited in the claims.

In the accompanying drawings:

Figure 1 is a side elevation of a box or can 60 equipped with one form of the invention, the spout and sifter being closed.

Fig. 2 is a part side elevation, part sectional, view, full lines showing the spout and 65 sifter arranged for pouring a single stream of the material, dotted lines representing the position of the sifter when the latter is to be used.

Fig. 3 is an interior view, the spout and 70 sifter being closed, as in Fig. 1.

Fig. 4 is a detail perspective view of the spout by itself, as it appears before being applied to the can or box.

Fig. 5 is a similar view of the sifter, the 75 position thereof being reversed to better disclose the construction.

Fig. 6 is a side elevation showing another embodiment of the invention, the sifter being 80 arranged so that the spout may be used as such, dotted lines representing the position of the sifter when fine streams of the material are to be dispensed.

Fig. 7 is a detail perspective view of the 85 embodiment shown in Fig. 6, a part of the spout being broken away and the sifter being located in sifting position; and

Fig. 8 is a detail view of the sifter of Figs. 6 and 7.

The present invention is adapted for use 90 on any box or can from which it is intended to dispense granular or pulverized material such, for instance, as salt, sugar, spices, etc. The can may be of paper or of metal.

The can or box 1 is closed except for a single opening 2 through which the material 95 passes into the spout 3, either directly in the form of a stream, or indirectly through the sifter 4, in the form of a number of fine streams so that a sifting action may be obtained, reference being had to Figs. 1 to 5 100 inclusive.

The opening 2 tapers upwardly from its base to its top. At the base of the opening the side wall of the box 1 is formed as a 105 tongue 5 which has a slot 6 through which

the hinging tongue 7 of the spout 3 passes and is then bent back against tongue 5 as shown in Figs. 2 and 3.

Whether the box or container 1 be of paper or of metal, the tongue 5 affords the requisite flexibility to serve as a hinge for the spout 3, permitting the latter to be opened or closed. The spout 3 is of metal and it has lugs 8 which are adapted to contact with the wall of the container 1, as shown in Fig. 2, to limit the outward swinging of the spout.

The side walls of the spout 3 have curved upper edges 9 which suitably clear, though adequately fitting, the upper edge or margin of the opening 2. The side walls are shaped to fit the sides of the opening 2 and the inherent flexibility of said sides affords a frictional contact with the side margins of the opening 2, thereby preventing the escape of the material except directly into the spout 3, or, indirectly into it through the sifter 4.

When it is desired to pour a single stream, the sifter or gate 4 is arranged as shown in Fig. 2 but when it is desired to sift the material, that is, to dispense it in a number of fine streams or to shake it out in that form of delivery, the sifter or shaker 4 is disposed as shown by the dotted line position, Fig. 2. When in the latter position, the sifter 4 constitutes a barrier between the interior of the box 1 and the spout but inasmuch as it is provided with a number of small openings or perforations 10, the material flows through these openings and passes into the spout in finely divided streams.

The sifter 4 is of the same general, upwardly tapered shape as the spout 3 and it is provided with flanges 11 which fit against the inside surfaces of the side walls of the spout. Being tapered and fitting the spout, it is not necessary for the shaker or sifter 4 to be hinged to the tongue 5, and said shaker is simply contained within the spout but this arrangement enables the sifter or shaker 4 to be disposed as shown by full and dotted lines in Fig. 2 as it is swingingly mounted to move bodily with the spout or independently thereof.

When the spout is closed as shown in Figs. 1 and 3, the opening 2 is tightly closed and moisture is kept out of the interior of the box 1 and the contents of the latter cannot escape.

The shaker 4 extends upwardly beyond the top of the spout 3 so that it may be held back when the spout is swung outwardly, or, may be swung back, that is, positioned as desired.

The perforations 10 enable the material to drain back into the box 1 from the spout, when the spout is closed, after being used.

Referring to Figs. 6, 7, 8, the same form of spout 3 is provided except that it has

perforations 12 instead of being impermeable. The spout is connected to the box 1 by a hinging tongue 7 connected to a tongue 5, as previously described.

The gate or shaker 13 is provided with a finger piece or button 14 for its manipulation, the shank of the finger piece passing through a slot 15 in the spout 3. The shaker 13, like the shaker 4, is mounted to swing bodily with the spout 3 and it is also capable of movement independently thereof. When the sifter or shaker 13 is raised as shown in Fig. 7 and by dotted lines in Fig. 6, the upper end 16 thereof engages the inner faces of the box 1 above the spout, thus holding the spout closed and exposing the perforations 12. Consequently, the box 1 can be shaken to dispense the material through the perforations 12, without danger of the spout opening, just as the sifter 4 can be held by the finger when sifting is to take place. In the construction shown in Figs. 6, 7, 8, the button 14 may be held by the finger of the user when the sifting operation is being had.

When the sifter or shaker 13 is pressed down, the lower part thereof covers the perforations 12 and at that time the spout is complete so that the contents of the box may be poured in a stream.

I claim:

1. A box or container provided with a movably mounted combined spout and shaker or sifter, wherein the spout and shaker or sifter are relatively movable, and also movable as a unit, said spout and shaker or sifter being adapted to be arranged for use as a spout, or, as a sifter.
2. A two-part combined spout and shaker or sifter adapted for installation as a unit on a box or container and having relatively movable parts adapting it for conversion into a pouring spout or into a sifter.
3. A box or container provided with a pivoted spout adapted to receive material from the interior of the box or container, and a movably mounted gate for said spout by which said spout may be converted into a sifting spout or a pouring spout according to the provision of said gate.
4. A box or container provided with a pivoted spout adapted to receive material from the interior of the box or container, and an adjustable gate carried by said spout and movable bodily with it, or, for shifting relatively to the spout, to enable the spout to be used for pouring, or, to sift the material.
5. A box or container provided with a swinging, tapered pouring spout, and a tapered gate movable within the spout and adapted, according to its position, to convert the spout into a pouring spout or into a sifting spout.
6. A box or container having a single opening for the outflow of the material, in

combination with a swinging spout adapted to receive the material passing through said opening, and a controlling gate carried by the spout and mounted for movement in relation to said spout. 10

7. A box or container having a single opening for the outflow of the material, in combination with a swinging spout adapted to receive the material passing through said opening, and a controlling gate located be- 10

tween the spout and the box and container, by which the material may be made to flow in a plurality of streams or in a single stream as it passes through said opening, according to the setting of said controlling gate. 15

In testimony whereof I affix my signature.

FRANK H. COGSWELL.