Dec. 3, 1929. C. G. ARVIDSON 1,737,548

SIFTER TOP

Filed Oct. 3, 1927

Fig. 1

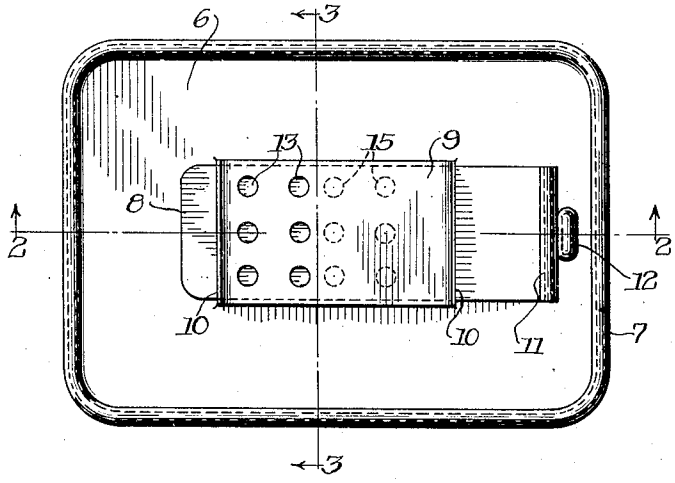


Fig. 2

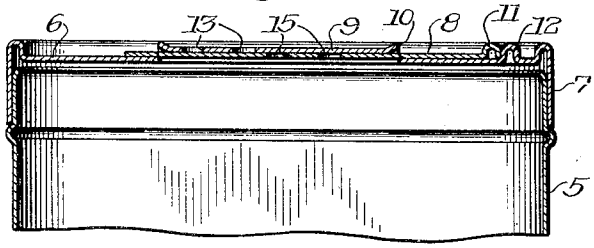
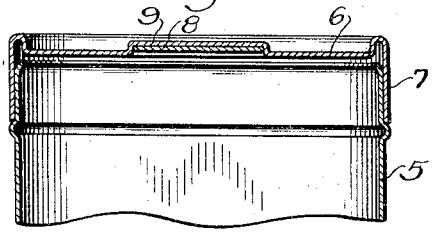


Fig. 3



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UNITED STATES PATENT OFFICE

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SIFTER TOP

Application filed October 3, 1927. Serial No. 223,493.

My invention relates generally to a sifter top or closure for receptacles adapted to contain powdered substance, and the primary object of my invention resides in the provision of a sifter top construction which is more simple of construction and assembly than those heretofore used and which may therefore be more economically produced.

Another object is to provide a sifter top construction of the slide type which is of less thickness than those previously used and which may therefore be used in certain products for instance, vanity cases wherein the space used is a governing factor.

Another object is to provide a sifter top construction which may be easily pried open in case it becomes jambed.

Another object is to provide a sifter top construction in which the slide member is held and guided for sliding movement by means adapted to be formed from the metal of one of the essential parts.

Other objects and advantages will become apparent from the following description and from the accompanying drawings in which:

Figure 1 shows a plan view of the top of a spice can which embodies my invention.

Fig. 2 is a fragmentary sectional view taken along the line 2—2 of Fig. 1.

Fig. 3 is a fragmentary sectional view taken along the line 3—3 of Fig. 1.

The embodiment chosen for the purpose of disclosure herein is shown as applied to a spice can 5 having a top or closure 6 which has a depending flange 7 adapted to fit about the top of the can 5.

In order to fully attain the objects of my invention, I reduce the amount of material used, and simplify and reduce in number the operations of manufacture. To this end I provide a sheet metal slide member 8 which fits against one side of the closure member 6 and which is adapted to be held in place and guided in its sliding movement by means integrally formed from the metal of one or the other of these two essential parts, said means preferably being of such form as to be readily and easily formed by simple stamping operations.

In the embodiment herein illustrated this means comprises a strip 9 which is struck up from the main body of the closure 6, thereby forming two parallel slits 10 in the closure 6 at the two sides of the strip 9. The slide member 8 is threaded through the two slits 10 so that the two ends of the slide are above the closure 6 while the middle portion lies beneath the strip 9. The slide 8 and the strip 9 are so proportioned with respect to each other that this same relation is maintained at all points in the travel of the slide. Means for limiting the travel of the slide may be of any preferred character but I prefer to form a bead or curl 11 on one of the ends of the slide 8 and to allow the contact of this bead with the edge of the slit 10 to stop the slide in that direction. The other stop may comprise a boss or projection 12 struck up from the closure 6.

A plurality of sifter holes 13 are formed in the closure member 6 which are adapted to register with a plurality of holes 15 in the slide member 8 when the slide is at one of the limits of its travel and which are adapted to be closed by the slide member 8 when it is at the other limit of its travel.

It will be apparent from the foregoing that I have provided an extremely simple and inexpensive sifter top construction which requires a minimum of material, which requires few operations to produce, and which is very compact.

It will also be apparent that a tool such as a spoon or a knife may be applied between the edge of the can and either end of the slide 8 to pry the same loose in case the slide is stuck and ordinary means fail.

I claim as my invention:

1. A sifter top comprising a sheet metal plate having a plurality of sifter holes formed therethrough, said plate having two slits formed therein, one on each side of said holes and the metal between said slits being struck up from the plane of said plate, a cut-off comprising a slide adapted to fit through both of said slits, and means for limiting the movement of said slide, said slide having holes therein adapted to register with the holes

in said plate when said slide is at one limit of its travel.

2. A sifter top comprising a sheet metal plate having a discharge aperture formed therethrough, said plate having two slits formed therein, one on each side of said aperture, and the metal between said slits being struck from the plane of said plate, a cut-off comprising a slide adapted to fit through both of said slits, and means for limiting the movement of said slide, said slide having an aperture therein adapted to register with the aperture in said plate when said slide is at one limit of its travel.

3. A sifter top comprising a sheet metal plate having a discharge aperture formed therethrough, said plate having two slits formed therein, and the metal between said slits being struck from the plane of said plate, and a cut-off comprising a slide adapted to fit through both of said slits and to extend across the aperture in said plate, means for limiting the movement of said slide, said slide having an aperture therein adapted to register with the aperture in said plate when the slide is at one limit of its travel.

4. A sifter top comprising a sheet metal plate having an aperture formed therein, said plate having two slits formed therein, and the metal between said slits being struck from the plane of said plate, a cut-off comprising a slide adapted to be inserted endwise through both of said slits and to extend over the aperture in said plate, said slide having an aperture formed therein adapted to be brought into registry with the aperture in said plate by movement of said slide through said slits.

In testimony whereof, I have hereunto affixed my signature.

CLARENCE G. ARVIDSON.