Sept. 29, 1953 W. J. JAMIESON 2,653,736

SIFTER-TOP CONTAINER HAVING A SLIDE CLOSURE

Filed Dec. 20, 1951

Fig. 1.

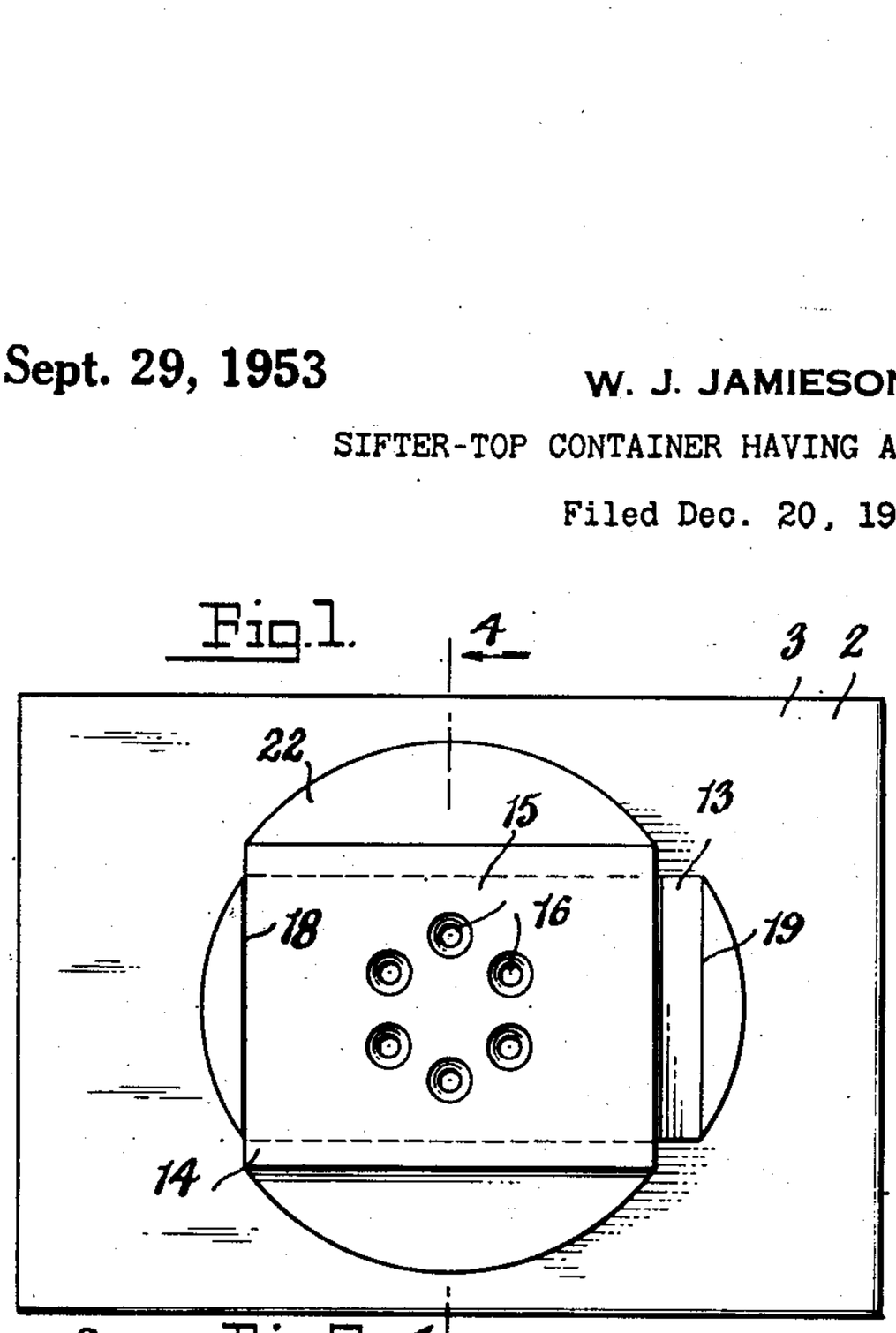


Fig. 2.

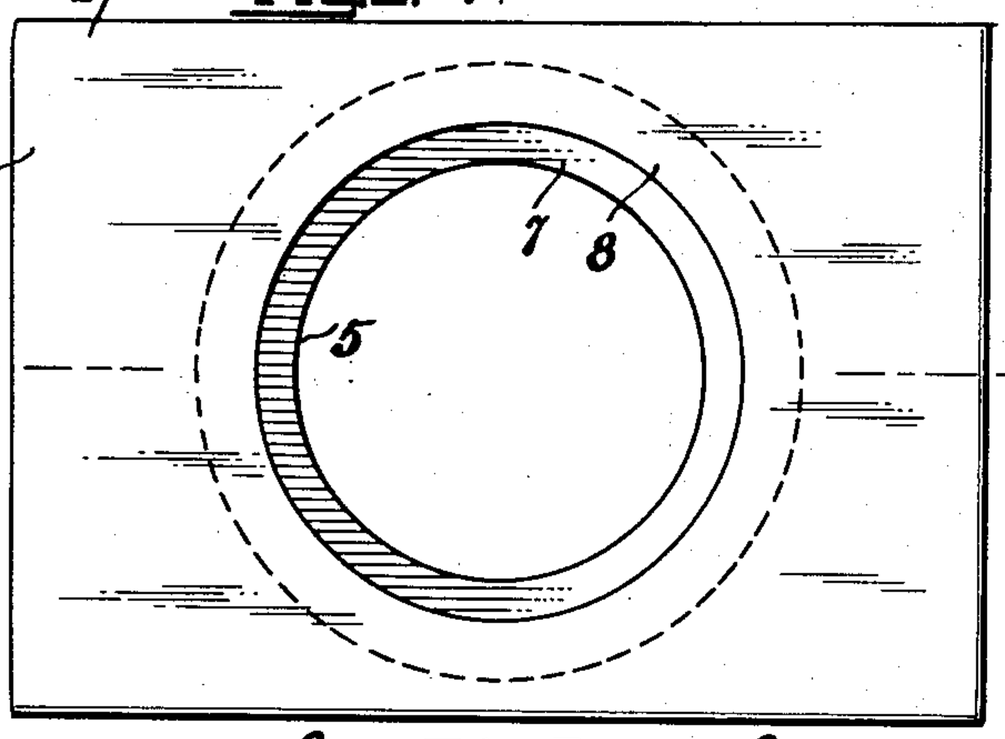


Fig. 3.

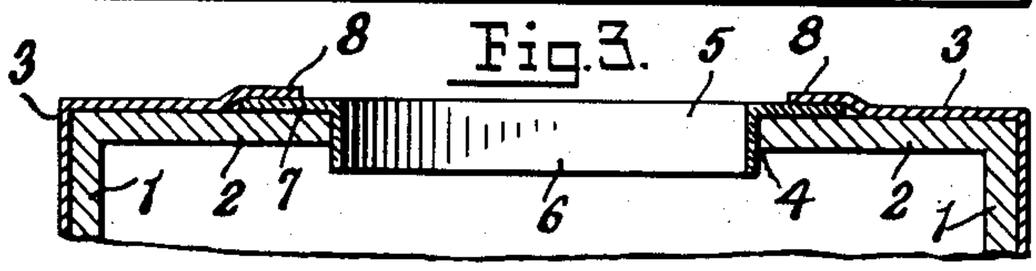


Fig. 4.

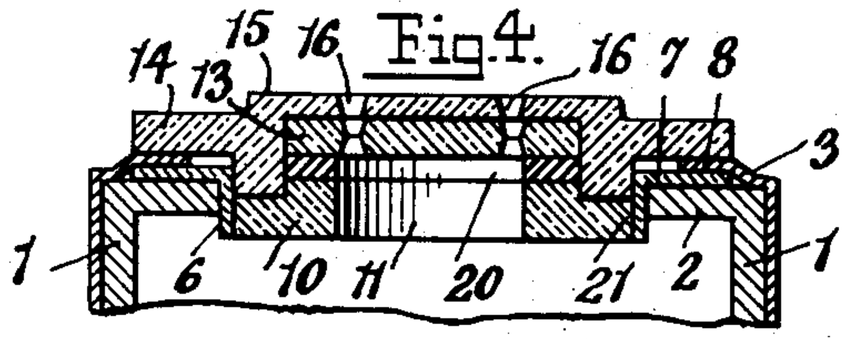


Fig. 5.

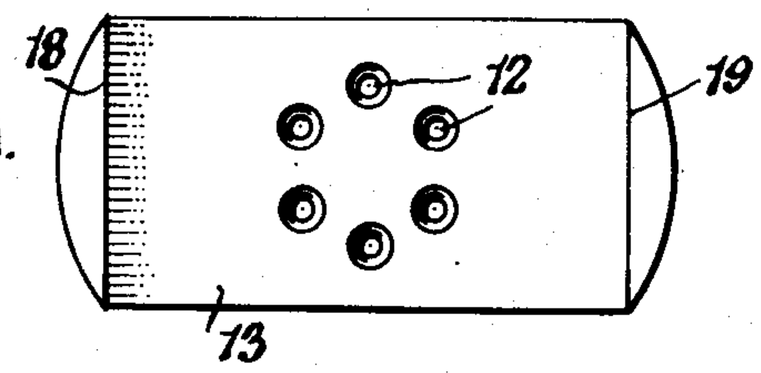


Fig. 6.

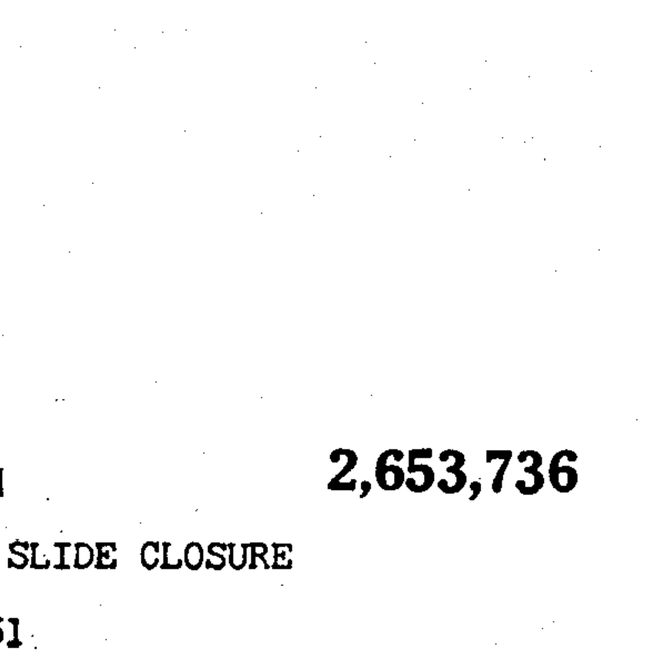


Fig. 7.

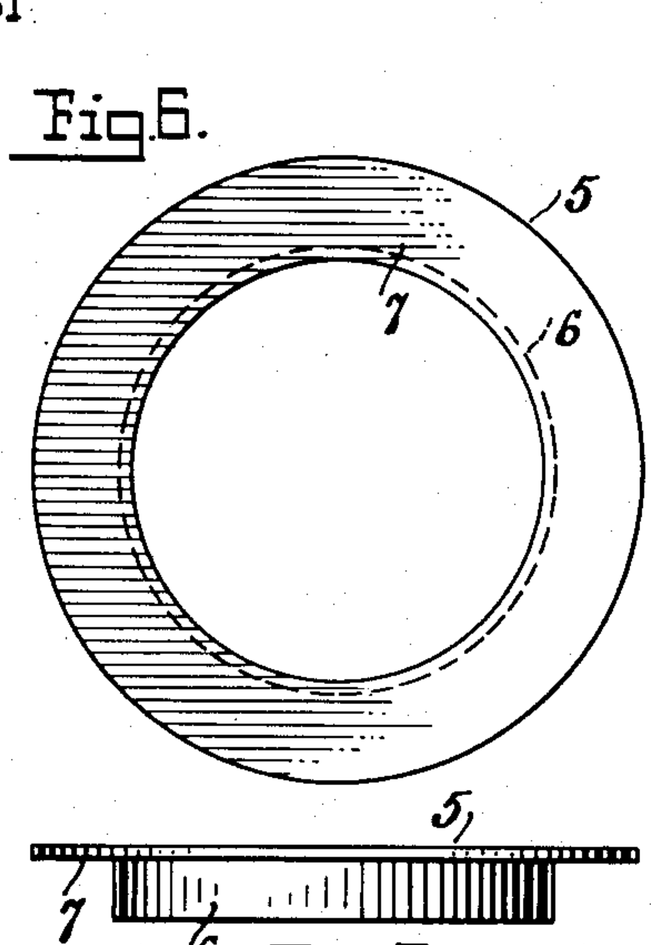


Fig. 8.

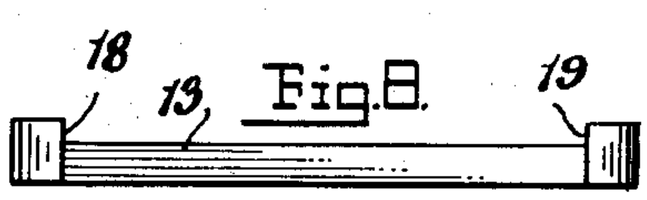


Fig. 9.

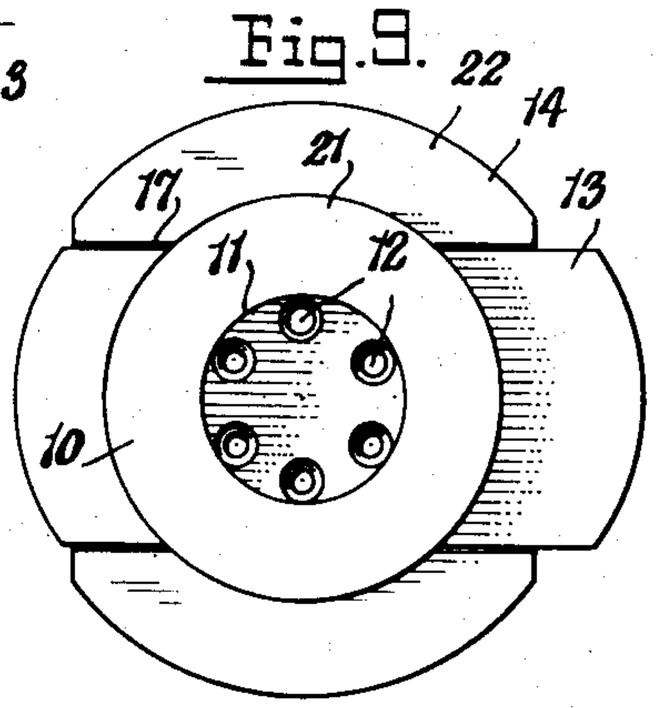
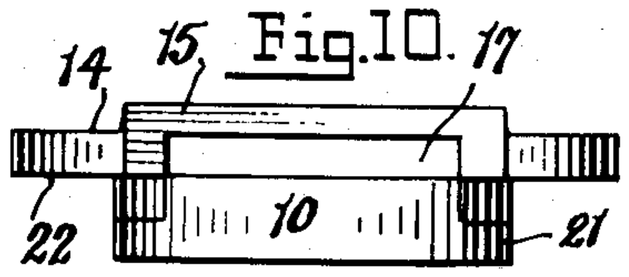


Fig. 10.



INVENTOR.

Walter J. Jamieson.

BY

Joseph J. Julian.

His Attorney

Patented Sept. 29, 1953 2,653,736

UNITED STATES PATENT OFFICE

2,653,736

SIFTER-TOP CONTAINER HAVING A SLIDE CLOSURE

Walter J. Jamieson, Manhasset, N. Y., assignor to Walter J. Jamieson Corp., New York, N. Y., a corporation of New York

Application December 20, 1951, Serial No. 262,591

1 Claim. (Cl. 222—545)

1

This invention relates to containers or receptacles primarily adapted for containing powdered materials such as for example, talcum powders and other like material adapted to be sifted from the container. It is an object of the invention to provide such a container or receptacle of cardboard, with a sifter top easily but securely mounted at the top of the container and permitting the powdered contents to be readily and smoothly sifted from the container when desired.

It is another object of the invention to provide a sifter unit for a container of this kind, which unit may be of non-metallic material, such as plastic and shall be provided with means by which it may be readily and securely mounted at the top of the container.

It is another object of the invention to provide an improved mounting means by which a sifter unit may be securely affixed at the top of a cardboard container, with such sifter unit being wholly composed of non-metallic material.

It is still another object of the invention to provide a sifter unit for affixment to a non-metallic container, such unit being composed of plastic elements and provided with means for readily affixing it to the top of the container.

More particularly, the invention contemplates the provision of a container of cardboard or similar material provided at the top with an aperture in which a retaining ring is fitted, said ring being provided with a radial top flange overlying the top of the container around the aperture therein, the container body being provided with an adhesively applied covering material, such as paper, which at least partly overlies the radial flange of the ring and maintains the ring in the aperture, said ring receiving and securely retaining a sifter unit.

With these and other objects to be more particularly set forth, in view, I have devised the arrangement of parts to be hereafter set forth in the following specification and pointed out in the claim appended hereto.

In the accompanying drawing, wherein an illustrative embodiment of the invention is disclosed,

Fig. 1 is a top plan view of a container or receptacle for powdered material, provided with the improved sifter construction;

Fig. 2 is a top plan view of the container or receptacle with the sifter unit removed and the retaining ring disclosed;

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2, looking in the direction of the arrows;

2

Fig. 4 is a sectional view taken on the line 4—4 of Fig. 1, looking in the direction of the arrows;

Fig. 5 is a top plan view of the sifter slide;

Fig. 6 is a top plan view of the retaining ring;

Fig. 7 is a side elevational view of the retaining ring;

Fig. 8 is a side elevational view of the slide;

Fig. 9 is a view looking at the under side of the sifter unit; and

Fig. 10 is an end view of the body of the sifter unit, with the slide removed.

The container, carton or receptacle, to which the improved sifter construction is adapted to be applied, is preferably, but not necessarily, composed of cardboard in one or more thicknesses as may be required for strength and stiffness. In the drawing, the side walls of such a container are indicated at 1 and the top at 2. The entire outside of the container is covered with a suitable covering material, such as moisture-resistant paper 3, which may be suitably printed or otherwise ornamented to add to the appearance of the container.

The top 2 of the container is provided with a hole or opening 4 which may be centrally or otherwise positioned, and said hole is adapted to receive a retaining ring, generally indicated at 5, and which receives and retains the sifter unit to be presently described.

The retaining ring 5 is of annular form and is provided with a vertical or dependent flange 6 which is adapted to tightly fit within the hole 4 in the top of the container. Said flange may, if necessary, be slightly tapered so that a snap fit in the hole will be attained. The ring also includes a radial or horizontal flange 7 which overlies the top of the container around the hole 4. The covering material 3 which is adhesively secured on the container, is arranged to partly overlie the flange 7 as indicated at 8 in Fig. 2 and possibly be adhesively secured to the flange. Thus, by means of the snug fit of the flange 6 in the hole 4 in the top of the container, and the cover material 3 overlying the flange 7, the retaining ring 5 will be very securely held in place in the box top to thereby securely retain the sifter unit. The ring 5 may, if desired, be composed of plastic material as may the parts of the sifter unit to be now described.

The sifter unit which is received and maintained by the ring 5 is shown in detail in Figs. 4, 9 and 10. The same includes a body portion having a lower section 10 in the form of a ring or annulus, thus having a central opening 11

through which the powder passes to be sifted through holes 12 provided in the slide 13. The body of the sifter unit also includes a top member 14 which is adhesively joined to the lower section 10 after the slide 13 has been positioned between the two body sections 10 and 14. The top member 14 of the body of the sifter unit includes a top panel 15 provided with a group of perforations 16 adapted to register with the perforations 12 in the slide 13 when the slide is moved to its open position or that shown in Figs. 1, 4 and 9. When the top member 14 and the lower section 10 are permanently fitted together, they are shaped to define a passage 17 between them in which the slide 13 is movable to the extent permitted by the stops or shoulders 18 and 19 formed near the opposite ends of the slide. A washer or gasket 20 is preferably interposed between the upper and lower sections 14 and 10 of the body of the sifter unit and below the slide.

As will be noted in Fig. 10, the upper and lower sections 14 and 10 of the sifter unit are cooperatively shaped to result in the formation of a cylindrical downward extension 21 below a flange 22.

This cylindrical extension 21 is so shaped and sized as to snugly fit within the flange 6 of the retaining ring 5 and if necessary can be slightly tapered in a manner to cause it, when inserted into the ring 5, to actually snap therein and very tightly hold itself in place in the ring without requiring additional fastening or other retaining means. When the sifter unit is thus fitted in position, it will completely cover and conceal any exposed parts of the retaining ring 5 and will become securely attached at the top of the container. As the slide is moved to open position, or that shown in Fig. 1, the perforations 12 in the slide will become registered or aligned with those indicated at 16 in the top 15 of the sifter body and powder passing through passage 11 will pass through the aligned perforations 12 and 16 and be sifted out of the container. When the slide is moved in the opposite direction, the perforations 12 will become disaligned from those shown at 16 and the sifter unit will then be closed and the powder cannot be spilled out. The washer or gasket 20 applies sufficient friction upon the slide to prevent it from inadvertently

opening when the container is carried in a travelling bag.

The device is so arranged that all of the parts of the sifter unit and the retaining ring may, if desired, be composed of plastic material, yet a sturdy, rigid and efficient device will result.

Having described one embodiment of the invention, it is obvious that the same is not to be restricted thereto, but is broad enough to cover all structures coming within the scope of the annexed claim.

What I claim is:

A sifter top construction for powder-containing receptacles comprising, a receptacle body covered with an adhesively-applied outer covering layer, said receptacle body having an opening in one of its walls, a ring-shaped retaining member fitted in said opening and having an annular flange overlying the wall of the receptacle around the opening, the flange being extended beneath the outer covering whereby the retaining member is retained in said opening with the covering material overlying its flange, a sifter unit fitted within the ring and exposed above the top of the same, said unit including a stationary body provided with a plurality of sifter holes, a slide movable in said body and having holes for registry or non-registry with those in the body, according to the position of the slide relatively to the body, the stationary body of the sifter unit being of such size that it extends over and completely covers the flange of the retaining member and also covers and conceals the edge portion of the part of the outer covering which extends over said flange.

WALTER J. JAMIESON.

References Cited in the file of this patent

UNITED STATES PATENTS

Number	Name	Date
454,918	Platt	June 30, 1891
2,097,210	Davis et al.	Oct. 26, 1937
2,099,289	Anderson	Nov. 16, 1937
2,547,871	Kirk	Apr. 3, 1951
2,590,437	Maves	Mar. 25, 1952

FOREIGN PATENTS

Number	Country	Date
603,513	Great Britain	June 17, 1948