March 18, 1924. 1,486,978

J. V. LOBELL

POWDER DISPENSING BOX

Filed Feb. 21, 1922

Fig. 9.

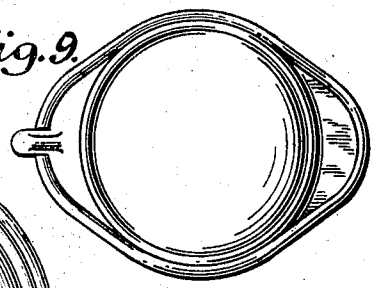


Fig. 1.

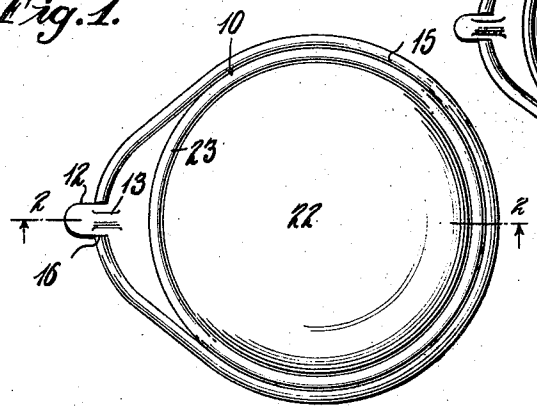


Fig. 7.

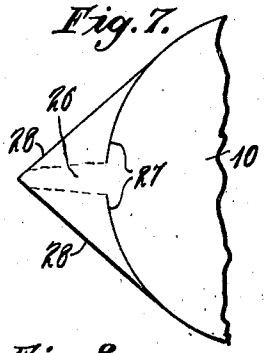


Fig. 2.

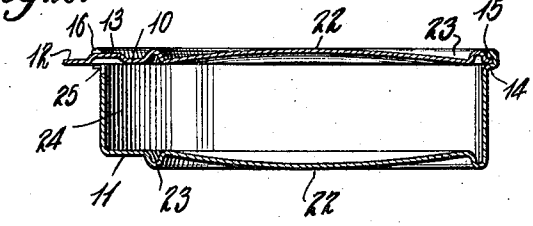


Fig. 8.

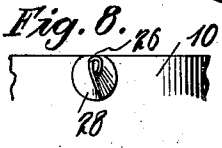


Fig. 3.

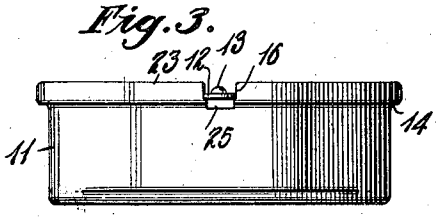


Fig. 5.

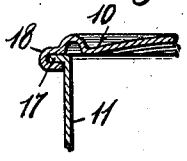


Fig. 6.

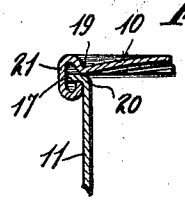
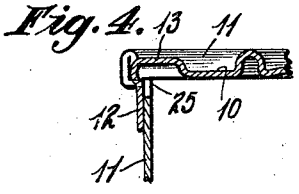


Fig. 4.



Inventor

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By

Attorney

Patented Mar. 18, 1924. 1,486,978

UNITED STATES PATENT OFFICE.

JAMES V. LOBELL, OF NEWARK, NEW JERSEY.

POWDER-DISPENSING BOX.

Application filed February 21, 1922. Serial No. 538,185.

To all whom it may concern:

Be it known that I, JAMES V. LOBELL, citizen of the United States, residing at Newark, State of New Jersey, have invented certain new and useful Improvements in Powder-Dispensing Boxes, of which the following is a specification.

This invention relates to a powder-dispensing box for use in exterminating insects.

An object of the invention is to provide a powder-dispensing box of the bellows type made of two pieces of metal or other material relatively clinched or fastened together to provide a non-refillable container and having improved nozzle means thru which the powder is ejected.

A further and additional object is to provide a powder-dispensing box of the character above specified having a distributing nozzle likewise serving as a means for closing or sealing the outlet of the box when not in use.

Various other objects and advantages of the invention will become apparent during the continuance of the following description.

In the drawings:

Figure 1 is a top plan view of the powder box.

Figure 2 is a vertical cross section taken on line 2—2 of Figure 1.

Figure 3 is a view of the front or nozzle end of the box,

Figures 4, 5, and 6 are detail, sectional, views illustrating the various methods of clinching the edges of the box sections, and

Figure 7 is a view of a modified type of nozzle carrying lid, and

Figure 8 is an end view of the formed nozzle.

In describing in detail the invention as shown in the accompanying drawings, reference numerals 10 and 11 respectively indicate the top and bottom section of the box which are fastened securely to each other at the edges by clinching and, hence, made non-refillable. The box may be constructed either of metal or other suitable material and of semi-elliptical shape as shown in full lines in Figure 1, or wholly elliptical as indicated by the dotted lines.

Top piece 10 is provided with a forwardly projecting lip 12 having a longitudinally extending depression or groove 13, the purpose of which will be hereinafter disclosed. This top is fastened to the bottom or container portion 11 in any one of the several methods illustrated in Figures 2, 5 and 6 inclusive.

In Figure 2 the upper edge of container 11 is clinched, in any suitable manner, over and down upon the surrounding edge of top 10 which is thus held securely in the groove formed between shoulder 14 and the clinching portion 15. A suitable cut out 16 is provided to accommodate lip 12 which projects therethru to provide a nozzle. It will be noted that groove 13 provides an outlet for the powder when the same is ejected from the box. In Figures 5 and 6, the method of clinching is reversed, that is the top 10 is used to clinch the bottom 11 which has a laterally projecting flange 17 at its upper edge. This flange is, in one instance embraced by clincher portion 18 of the top and in another instance is clamped by shoulders 19 and 20 centrally of clincher loop 21.

The box may be provided on both sides or either side with bellows means for ejecting the powder. The metal is curved or bellied outwardly as at 22 to form the bellows which is confined by a circular depression 23 forming a surrounding ridge 23 located nearer to the rear end of the box than to the front end, thereby providing a space 24 at the nozzle into which the residue of the box, when nearly emptied may be shaken and thus readily ejected thru the nozzle by the blast from the bellows.

Ordinarily the space provided by the groove is sufficient to form an outlet thru which the powder may be ejected but this outlet may be enlarged, if desired, by notching the edge of container 11 below the groove as at 25. This is seen more clearly in Figures 3 and 4. After the box has been filled, and previously to shipping them in quantities, lip 12 is bent downwardly against the notched side of container 11 and seals the outlet, thereby preventing loss and waste of powder when shipping. When reraised to its original projecting position it reopens the outlet and provides a nozzle along which the ejected powder passes when forced out of the box.

The nozzle-lip is integral with the top 10 of the box and may be stamped out in one piece with the latter either in the form above described or as shown in the modified view of Figures 7 and 8. In the latter figures the top piece tapers to a point 26 and incisions 25 are made in the top and at the

base of the point as shown to provide bendable side portions 28. Side portions 28 are folded downwardly along the dotted lines and curled under the point to provide a tubular nozzle thru which the powder is easily projected.

The semi-elliptical shape of the box and the provision of nozzle means at the point or end of the box enables the latter to be conveniently thrust into corners and other close spaces otherwise difficult to access.

From the foregoing it is believed that the advantages and operation of the invention can be readily understood and further detailed description is unnecessary.

What is claimed is:

1. A powder box of separable sections joined to provide a container, one of said sections having a lip extension received within a cut-out of the other section, said lip extension being grooved to provide an outlet for the box and adapted to be folded over the outlet to seal the box.

2. A powder box of separate sections relatively joined to provide a container, each of said sections being provided with a bellows, and an integral lip extension on one section and projecting thru a cut-out in the other section to provide a nozzle-outlet for the said container, said lip extension being foldable against the container to seal the outlet thereof.

3. A powder box of separable sections relatively joined to provide a container, one of said sections having a cutout and the other of said sections having an integral lip extension accommodated within the said cut-out to provide a nozzle, said nozzle having opposite sides foldable thereunder to provide a tubular nozzle.

4. A powder box comprising a container having an outlet opening and a lid having a lip projecting outwardly of the box and above the opening to provide a nozzle, said lid having incisions at the base of the lip to provide side portions foldable under the lip to provide a tubular nozzle.

5. A powder dispensing box comprising a container and a cover, the said cover being grooved to provide an opening between the cover and container, thru which the powder is dispensed.

6. A powder dispensing box comprising a container and a cover therefor, the said cover being grooved to provide an opening between the cover and the container thru which the powder is dispensed and the said container being notched below the groove to enlarge the opening.

7. A powder dispensing box comprising a container and a cover therefor, having a nozzle-forming extension, said container having a slot below the said extension to provide an outlet-opening and the said extension being foldable over the opening to seal the said container.

8. A powder dispensing box comprising a container and a cover therefor, having a nozzle forming extension, said container having a notch below the extension and the said extension presenting a groove opposite the notch whereby an outlet opening is provided between the cover and the container.

9. A powder dispensing box comprising a container and a cover therefor, having a nozzle forming extension, said container having a notch below the extension, and the said extension presenting a groove opposite the notch whereby an outlet opening is provided between the cover and the container, said extension being foldable over the opening to seal the container.

10. A powder distributing box having a tapered distributing end provided with an outlet-opening, and a forwardly extending lip adjacent the outlet and foldable upon itself to provide a tubular nozzle around said opening.

11. A powder dispensing box having opposite sides bellied outwardly to form a bellows and converging beyond the bellows to provide a tapered distributing end, said tapered end having a distributing nozzle and providing a space into which the residue of the box, when nearly emptied may be shaken for subsequent ejection thru the nozzle by the blast from the bellows.

In testimony whereof I affix my signature.

JAMES V. LOBELL.