June 16, 1925. 1,542,430

A. B. WEVER

POISON DUSTER

Filed Oct. 3, 1924

Fig. 1

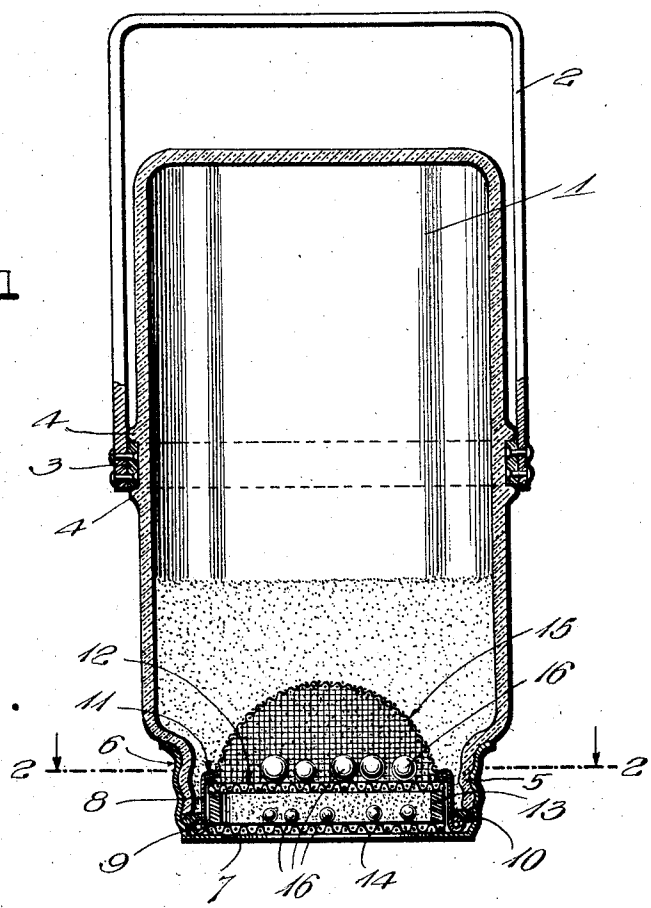
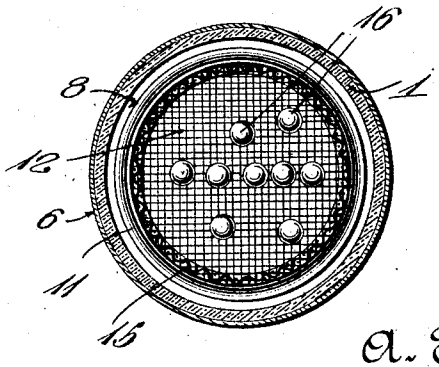


Fig. 2



Witness

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UNITED STATES PATENT OFFICE.

ALBERT B. WEVER, OF CHIPLEY, FLORIDA.

POISON DUSTER.

Application filed October 3, 1924. Serial No. 741,366.

To all whom it may concern:

Be it known that I, ALBERT B. WEVER, a citizen of the United States, residing at Chipley, in the county of Washington and State of Florida, have invented certain new and useful Improvements in Poison Dusters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in devices for sprinkling powders, and the present device is intended primarily for sprinkling or dusting powdered poisons over numerous kinds of growing plants, to prevent attacking thereof by insects.

The object of the invention is to provide an extremely simple and inexpensive device, yet one which will be highly efficient and cannot clog.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, the description being supplemented by the accompanying drawing.

Figure 1 is a vertical sectional view of a powder duster constructed in accordance with my invention.

Figure 2 is a horizontal sectional view on line 2—2 of Fig. 1.

In the drawing above briefly described, the numeral 1 designates a receptacle which may well be in the form of a glass jar. A carrying handle 2 is preferably provided for the receptacle 1 and it may well be secured to a collar 3 surrounding said receptacle, and the latter may be provided with any preferred means, such as the ribs 4, for holding the collar against sliding thereon. The receptacle is provided with a discharge neck or mouth 5 with which a metallic cap 6 is engaged, the cap being preferably threaded upon the neck. This cap is provided with a powder discharge opening 7, and the outer edge of an annular screen-carrying rim or wall 8, contacts with the inner side of said cap around said opening. The outer edge of this wall 8 is provided with an external bead 9, and a ring 10, preferably formed of rubber, surrounds said wall between said bead and the outer end of the neck 5, said ring 10 serving to hold the wall 8 against movement into the receptacle, while the cap 6 holds it against outward movement.

In the construction shown, the inner edge of the wall 8 is formed with an internal bead 11. A woven wire screen 12 is disposed within this wall and contacts with the bead 11. A spacing ring 13 is positioned within the wall in contact with the screen 12 to hold the latter against the bead 11, and a second screen 14 within the wall 8, is held against the spacing ring, by contact with the cap 6. Preferably, a third screen 15 of concavo-convex form, is secured at its edge to the bead 11, and in the spaces between the several screens, I place weights 16 formed of any suitable material, so that when the entire device is shaken, these weights will strike the screens, thereby vibrating the latter and insuring that the powder in the receptacle shall properly discharge, without any danger of clogging the screens.

Excellent results may be obtained from the details disclosed and they also produce an exceptionally simple and inexpensive construction. These details are preferably followed, but within the scope of the invention as claimed, modifications may of course be made.

I claim:—

1. A powder duster comprising a receptacle having a mouth, a cap closing said mouth and having a discharge opening, a screen carrying rim held within said mouth by said cap and provided with an outstanding bead, and a ring surrounding said rim between said bead and the outer end of the mouth to hold said rim against movement into the body of the receptacle.

2. A powder duster comprising a receptacle having a mouth, a cap closing said mouth and having a discharge opening, a screen-carrying rim held within said mouth by said cap, spaced screens carried by said rim, and weights loosely disposed between said screens and within said rim.

3. A powder duster comprising a receptacle having a mouth, a cap closing said neck and having a discharge opening, an annular wall within said mouth having an external bead at its outer end and an internal bead at its inner end, a screen within said wall abutting said internal bead, a screen spacing ring within said wall abutting screen, an additional screen within the wall abutting said ring, said additional screen and the outer edge of said wall being in contact with the aforesaid cap, a

second ring surrounding said wall between said external bead and the outer end of the receptacle mouth, and one or more screen vibrating weights confined in the space between the screens.

4. A structure as specified in claim 2, together with a concavo-convex screen secured to said rim and extending into the receptacle, and additional weights loosely disposed between the concavo-convex screen and the adjacent screen carried by the rim.

5. A powder duster comprising a receptacle having a mouth, a cap fitting on said neck and having a discharge opening, a screen-carrying rim within said mouth, and an annular member projecting from the exterior of said rim and held between said cap and the outer end of said mouth.

In testimony whereof I have hereunto affixed my signature.

ALBERT B. WEVER.