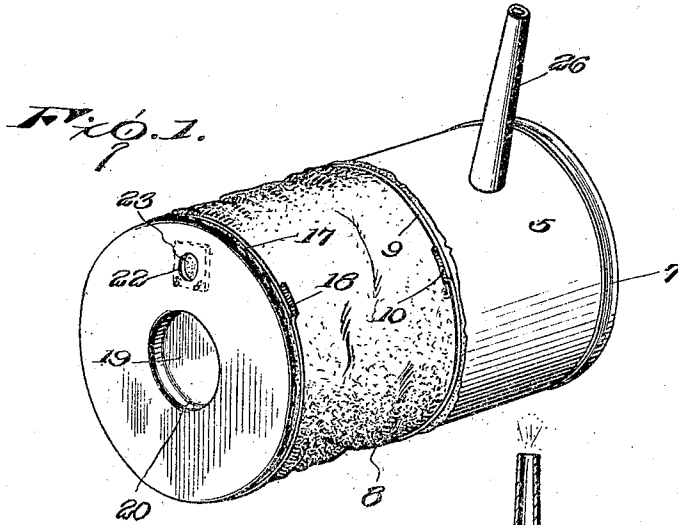
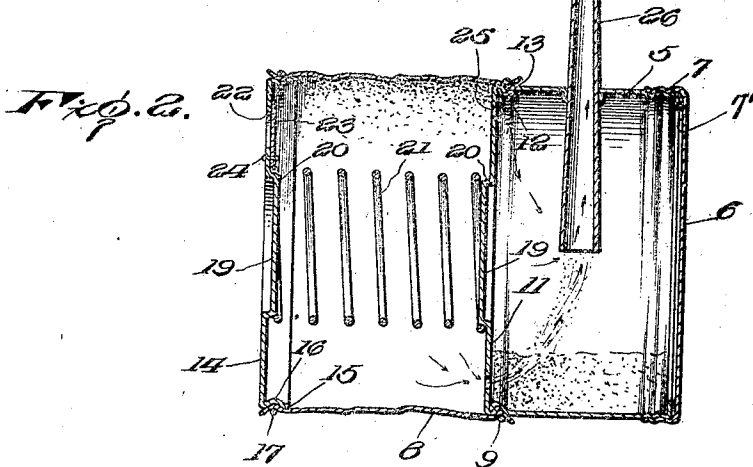
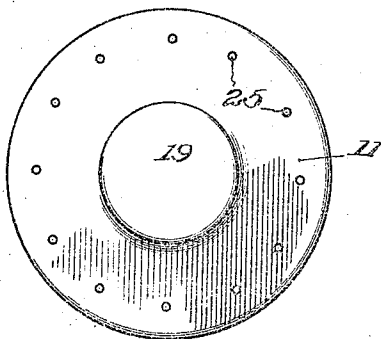


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INSECTICIDE HOLDER.
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1,377,077.

Patented May 3, 1921.



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HERBERT G. IRWIN, OF FLOYDADA, TEXAS.

INSECTICIDE-HOLDER.

1,377,077.

Specification of Letters Patent.

Patented May 3, 1921.

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To all whom it may concern:

Be it known that I, HERBERT G. IRWIN, a citizen of the United States, residing at Floydada, in the county of Floyd and State of Texas, have invented certain new and useful Improvements in Insecticide-Holders, of which the following is a specification.

This invention relates to improvements in insecticide holders having novel means for discharging the insecticide.

An important object of this invention is to provide an insecticide holder having a novel form of bellows which discharges air into the bottom of the insecticide holder so as to pick up a small quantity of the insecticide upon being discharged from the holder.

A further object of this invention is to provide novel means for detachably securing the bellows to the holder.

A further object of the invention is to provide an insecticide holding and dispensing receptacle provided with a discharge spout having its inlet end arranged approximately in the center of the receptacle so that the insecticide may be readily discharged regardless of the position of the receptacle and without the possibility of accidental loss of any part of the contents.

A further object of this invention is to provide a device of the class described which is neat in appearance, of highly simplified construction and cheap to manufacture.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application and in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a perspective view of an insecticide holder embodying the invention,

Fig. 2 is a central vertical section through the same, and

Fig. 3 is a bottom plan view of the holder.

In the drawing wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 5 designates a cylindrical holder having a top 6 secured thereto by an annular threaded flange 7. A suitable washer or annular sealing element 7' is confined between the top 6 and the adjacent portion of the cylindrical holder. As illustrated in Fig. 2, the bellows 8 is secured to the lower portion of the

holder through the medium of a length of round wire 9 which has its ends twisted together, as indicated at 10, for securely connecting the body of the bellows which may be of leather, to the holder. The holder 5 is provided with a bottom 11 which has its edge portion extended inwardly and seated within an annular recess 12 in the lower portion of the holder for securely connecting the bottom to the holder. The inwardly extending edge portion of the bottom 11 and the annular recess 12 within which the same is seated form an exterior groove 13 within which the upper portion of the bellows and the wire 9 are securely seated, whereby the bellows is securely attached to the holder and the possibility of air leaking between the bellows and the side of the holder is thereby eliminated. It is thus apparent that the inwardly extended edge portion of the bottom 11 and the adjacent portion of the holder serve a dual function which is, first to form an attaching means for the bottom of the holder, and secondly to form a means whereby the bellows may be attached to the holder without the possibility of leakage.

The bottom 14 of the bellows is provided with an annular flange 15 having an interiorly arranged beaded portion 16 for forming an annular groove to receive the lower edge portion of the bellows. A second length of wire 17 serves to secure the lower portion of the bellows within said annular groove and has its ends twisted, as indicated at 18, so that the bottom 14 is securely attached to the contractible portion of the bellows. The bottom of the holder and the bottom of the bellows are provided with centrally arranged recessed portions 19 which form annular shoulders 20 for securing the ends of a retractile coil spring 21 in position. During the outward movement of the body of the bellows air is admitted to the same through an opening 22 in the bottom 14. A flap valve 23 is riveted or otherwise secured, as indicated at 24, to the bottom 14 and extends over said opening so as to close the same during the inward or discharge movement of the bellows.

The air is discharged from the bellows through the medium of an annular series of spaced openings 25 in the bottom 11. When it is desired to use the device, the holder is about half filled with powder so

as to cover the annular series of openings 25. When the bellows is squeezed for forcing the air through the openings 25, a quantity of the powder is picked up and discharged through the nozzle or spout 26. The inner end of the nozzle 26 is arranged approximately in the center of the holder and the discharge end is slightly restricted so as to increase the velocity of the air upon being discharged. By arranging the inlet end of the discharge spout approximately in the center of the holder or receptacle, the insecticide may be conveniently discharged regardless of the position of the holder. Whether the holder is arranged with the spout extending upwardly, downwardly or horizontally, at least a portion of the holes 25 will be covered by the insecticide thereby providing for the passage of air through the powder when the holder is in use. In causing the air to pass through the powder carried by the bottom of the holder, a uniform quantity of powder will be discharged at each operation of the bellows.

It is to be understood that the form of the invention herewith shown and described is to be taken as a preferred example of the same and that such minor changes in arrangement and construction of parts may be made as will remain within the spirit of the invention and the scope of what is claimed.

Having thus described the invention, what is claimed is:

1. An insecticide holder including a body having a bottom provided with air inlet openings, a cylindrical bellows attached to said body and provided with a bottom, the bottom of said bellows and the bottom of said body being provided with centrally arranged recessed portions forming a pair of annular shoulders spaced from the sides of the body and bellows, a coil spring confined between the bottom of said bellows

and the bottom of said body and surrounding the said annular shoulders, the bottom of said bellows being provided with air inlet means, and a valve for the air inlet means of said bellows.

2. A device of the class described, including a body having a groove, a bottom having its edge portion extended inwardly and seated within said groove, one side wall of said groove and the adjacent portion of said bottom forming a second groove, a bellows having one end portion arranged in the second-named groove, and a length of wire twisted tightly about said end portion of the bellows for securing the same within the second-named groove.

3. An insecticide holder including a body having a perforated bottom, a bellows attached to the body about said bottom and adapted for discharging air through said perforated bottom for taking up the contents of the body, and a discharge spout having its inlet end arranged in the central portion of the body at a space upwardly from said perforated bottom, said spout being uniformly tapered toward its free end.

4. The combination with an insecticide holder having sides, a bottom and a detachable top, of a discharge spout extending through one side of the holder and having its inlet end arranged centrally within the holder and spaced from the top and bottom of the same whereby the insecticide within the holder may be discharged regardless of the position of the holder, and a bellows associated with the holder, the bottom of said holder being provided with an annular series of openings surrounding the inner end of the spout and establishing communication between said holder and the bellows.

In testimony whereof I affix my signature.

HERBERT G. IRWIN. [L. S.]