Feb. 19, 1929. 1,703,066

J. P. HORN

FURNITURE ATTACHMENT

Filed Jan. 13, 1928

Fig. 1.

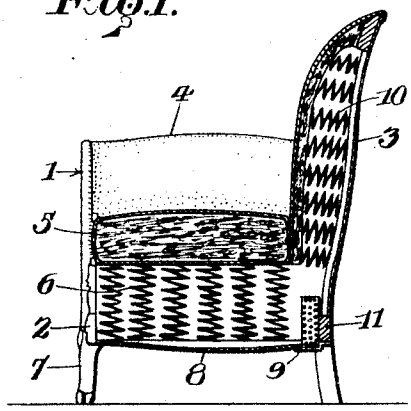


Fig. 2.

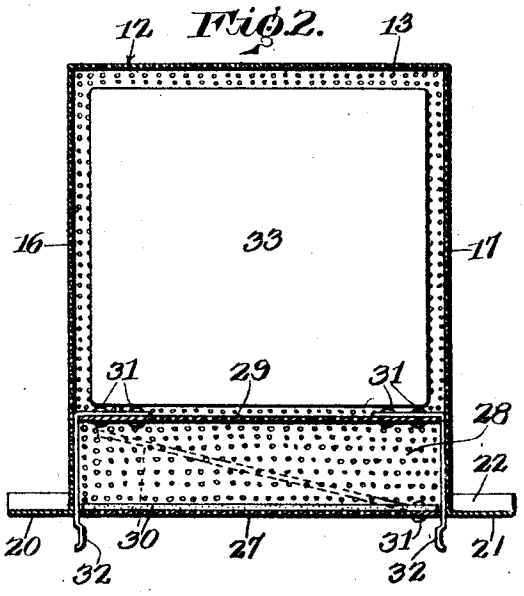


Fig. 3.

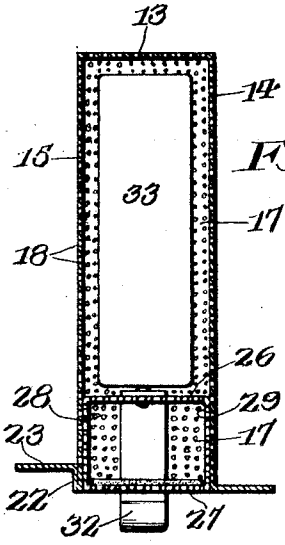


Fig. 4.

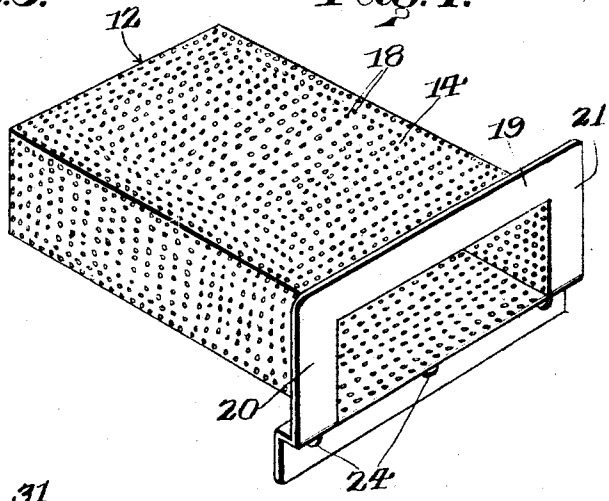
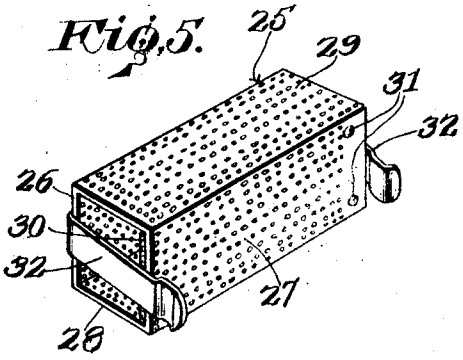


Fig. 5.



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Patented Feb. 19, 1929. 1,703,066

UNITED STATES PATENT OFFICE.

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FURNITURE ATTACHMENT.

Application filed January 13, 1928. Serial No. 246,520.

This invention relates to an attachment for furniture of the upholstered type, but more particularly to a valve controlled insecticide container designed primarily as a vermin repelling means for use in connection with upholstered furniture, but it is to be understood that a valve controlled insecticide container, in accordance with this invention may be employed for any purposes for which it is found applicable, and the primary object of the invention is to provide means, in a manner as hereinafter set forth, whereby an insecticide or vermin repellent may be housed within the article of furniture in such a way as to be obscured from view and not interfere with any of the operative parts of the furniture, and yet will permit of fumes or gases passing therefrom through the article of furniture so as to repel vermin to prevent their lodging upon or gaining access to the interior of the article.

A further object of the invention is to provide, in a manner as hereinafter set forth, a valve controlled insecticide container designed primarily for use in connection with upholstered furniture and constructed and arranged to allow an intake of air, due to the expansion of the upholstering, when a person sitting thereon rises and for shutting off the intake of air on the contraction of the upholstering due to any one sitting on same, and by this arrangement the fumes or generated gases on the inside are retained and compressed thereby forcing them into the upholstering on the inside and to the innermost corners, allowing none of the fumes or gases to escape to the outside. Further the providing of the container with a valve, in a manner as hereinafter set forth, will eliminate any odor in the room from the insecticide.

A further object of the invention is to provide, in a manner as hereinafter set forth, an insecticide container constructed and arranged whereby air currents are caused to pass therethrough on the reaction of the seat of a chair or other resiliently supported part of an article of furniture thereby carrying the emanations from the insecticide substance into contact with the upholstering material on such reaction, and further whereby said container is constructed to prevent the intake of air on the compression of the seat of a chair or other resiliently supported part of an article of furniture.

A further object of the invention is to provide, in a manner as hereinafter set forth, an insecticide container for the purpose referred to constructed and arranged to permit of conveniently positioning the insecticide therein when desired.

A further object of the invention is to provide, in a manner as hereinafter set forth, an insecticide container for the purpose referred to which can be positioned within an article of furniture at the desired point, after such article of furniture has been built or completed, and further to provide a form of insecticide container which can be placed at any desired point within the article of furniture and with such article of furniture being a chair, couch, large davenport, or any other form of upholstering, such as a bed box spring, large hotel or club divans and lounges, and further whereby the container is of such size as to enable one or more thereof to be positioned within the article of furniture and concealed after being positioned.

Further objects of the invention are to provide, in a manner as hereinafter set forth, a valve controlled insecticide container for the purpose referred to which is simple in its construction and arrangement, strong, durable, compact, thoroughly efficient in its use, conveniently installed and removed when desired, readily assembled, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts as hereinafter more specifically described, and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:

Figure 1 is a sectional elevation of an upholstered chair showing the adaptation therewith of a valve controlled insecticide container in accordance with this invention.

Figure 2 is a vertical sectional view of the container.

Figure 3 is a vertical sectional view taken at right angles to Figure 2.

Figure 4 is a perspective view of the body of the container.

Figure 5 is a perspective view of the valve controlled stopper unit for the body of the container.

The disinfectant container, may be installed in any form of upholstered furniture, but by way of example is illustrated as applied to the rear bar of the framework of a conventional arm chair of the upholstered type. Referring to the drawings the chair is generally indicated at 1 and includes a seat frame 2, a back 3, a pair of arms 4, only one of which is shown, an upholstered seat portion 5, supporting springs 6 for the seat portion 5, legs 7, a flexible closure 8 secured to the bottom of the seat frame 2 and provided with an opening 9 for the passage of the disinfectant or insecticide container and springs 10 arranged in the back 3. The rear bar of the seat frame 2 is indicated at 11 and is adapted to have the container secured thereto and positioned against the forward face thereof. The container can be of any suitable form and by way of example shown of rectangular contour.

The container comprises an open bottom rectangular body portion 12 formed of a top 13, a front wall 14, a rear wall 15, and a pair of side walls 16, 17. The top 13 and each of the walls of the body portion 12 are perforated throughout as indicated at 18 whereby a foraminous open bottom body portion is provided. The body portion 12 is formed of sheet metal of the desired gauge and the walls 14, 16 and 17 thereof have their lower ends provided with outwardly extending right angularly disposed flanges 19, 20 and 21 respectively. The wall 15 at its bottom is formed with a non-perforated part 22 which is bent upwardly to abut the outer face of said wall 15. The part 22 terminates at its upper end in a right angularly disposed flange 23 provided with a plurality of openings 24 for the passage of holdfast devices. The flange 23 is positioned above the plane of the flanges 19, 20 and 21.

Arranged within the open lower end of the body portion 12 is a valve controlled stopper unit consisting of a rectangular body portion 25 formed of a top 26, a bottom 27, a front wall 28, and a rear wall 29. The body portion 25 is open at each end. The top 26, bottom 27 and walls 28, 29 of the body portion 25 are perforated throughout whereby a foraminous body portion is provided. Arranged within the body portion 25 is a flap valve 30 which has one end thereof secured by the holdfast devices 31 to one end of the bottom 27. The normal position of the valve 30 is as indicated in dotted lines in Figure 2 under such conditions the bottom 27 is open. When the furniture is contracted, due to one seating thereon, the valve 30 is shifted to full line position as shown in Figure 2, under such conditions closing the bottom 27 of the body 25. When the article of furniture is expanded, the expanding action thereof elevates the valve 30 to the dotted line position shown in Figure 2 and permitting of an intake of air to the stopper element A and into the body portion 12. The stopper element is detachably secured to the body portion 12, by resilient latches 32 which frictionally engage with the walls 16, 17 of the body portion 12. The latches 32 are positioned at the ends of the body portion 25. The valve controlled stopper unit also constitutes a support for a body of insecticide or disinfectant 33. When the container is mounted in position, with respect to the chair, the flange 23 is positioned against the bottom edge of the rear rail 11 and the holdfast devices are extended through the openings 24 and engage in said rail 11 for fixedly securing the container thereto. The body portion 12 extends up through the opening 9 and the flanges 19, 20 and 21 are positioned against the lower face of the flexible closure 8. When the container is secured to the rail 11 it is positioned against the forward face thereof, that is to say the body portion 12 is arranged against said forward face of said rail 11.

It is thought the many advantages of a valve controlled insecticide container, in accordance with this invention and for the purpose set forth, can be readily understood, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that changes in the details of construction can be had which fall within the scope of the invention as claimed.

What I claim is:

1. An insecticide container comprising a foraminous open bottom receptacle, and a valve controlled foraminous stopper element positioned within the receptacle at the bottom thereof and constituting a support for a body of insecticide and further providing means for controlling the intake of air through the container.

2. An insecticide container comprising a foraminous open bottom receptacle, and a valve controlled foraminous stopper element positioned within the receptacle at the bottom thereof and constituting a support for a body of insecticide and further providing means for controlling the intake of air through the container, said element provided with means for detachably connecting it to said receptacle.

3. An insecticide container comprising a foraminous open bottom receptacle, and a valve controlled foraminous stopper element positioned within the receptacle at the bottom thereof and constituting a support for a body insecticide and further providing means for controlling the intake of air through the container, said receptacle having lateral flanges at its bottom, one of said flanges provided with openings for the passage of holdfast devices to anchor the container.

4. An insecticide container comprising a foraminous open bottom receptacle, and a

valve controlled foraminous stopper element positioned within the receptacle at the bottom thereof and constituting a support for a body of insecticide and further providing means for controlling the intake of air through the container, said element provided with means for detachably connecting it to said receptacle, said receptacle having lateral flanges at its bottom, one of said flanges provided with openings for the passage of holdfast devices to anchor the container.

5. An insecticide container comprising a foraminous open bottom receptacle, and a valve controlled foraminous stopper element positioned within the receptacle at the bottom thereof and constituting a support for a body of insecticide and further providing means for controlling the intake of air through the container, said receptacle having its bottom provided with an apertured flange for the passage of holdfast means to anchor the receptacle in position.

6. An insecticide container comprising a foraminous open bottom receptacle, and a valve controlled foraminous stopper element positioned within the receptacle at the bottom thereof and constituting a support for a body of insecticide and further providing means for controlling the intake of air through the container, said element provided with means for detachably connecting it to said receptacle, said receptacle having its bottom provided with an apertured flange for the passage of holdfast means to anchor the receptacle in position.

7. An insecticide container comprising an open bottom receptacle adapted to contain a body of insecticide and having the walls thereof perforated, and a valve controlled stopper element positioned within said bottom and constituting a support for said body, said element including a perforated top and bottom having a valve positioned therebetween and secured to the bottom.

8. An insecticide container comprising an open bottom receptacle adapted to contain a body of insecticide and having the walls thereof perforated, a valve controlled stopper element positioned within said bottom and constituting a support for said body, said element including a perforated top and bottom having a valve positioned therebetween and secured to the bottom, and means carried by said top for detachably connecting said element in the lower end of said receptacle.

9. An insecticide container comprising a receptacle open at one end and having its body formed with perforations, a perforated stopper mounted in said lower end and constituting means for supporting a body of insecticide within the receptacle, and a valve carried by said stopper for controlling the intake of air to the receptacle.

In testimony whereof, I affix my signature hereto.

JOHN P. HORN.