March 6, 1928. 1,661,547

E. J. REEFER

DEODORIZING DEVICE

Filed July 18, 1927

Fig. 1.

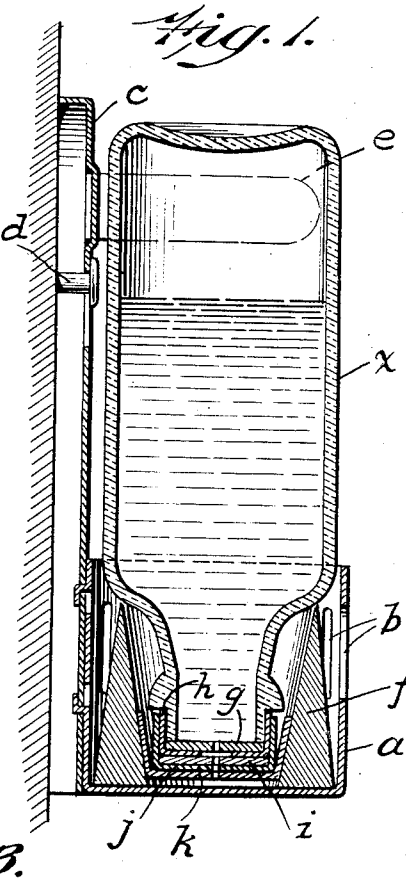


Fig. 2.

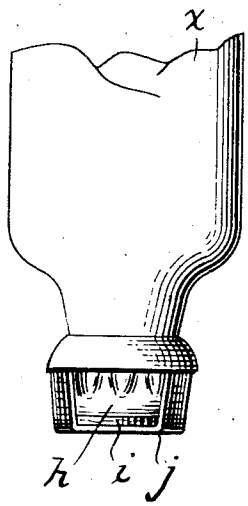


Fig. 7.

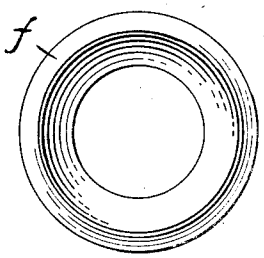


Fig. 8.

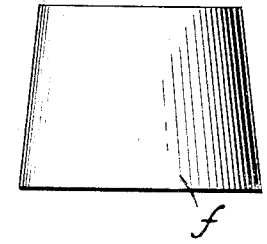
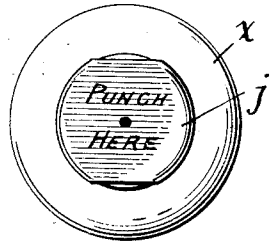
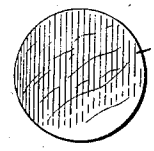


Fig. 3.

Fig. 4.

Fig. 5.





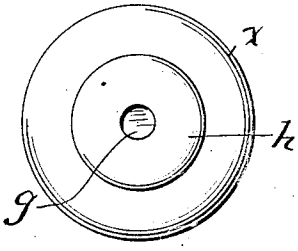


Fig. 6.



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UNITED STATES PATENT OFFICE.

EUGENE J. REEFER, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO REEFER'S NO-MOTH, INC., OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF NEW YORK.

DEODORIZING DEVICE.

Application filed July 18, 1927. Serial No. 206,588.

My invention relates to disinfectant or deodorizing devices and has for its object the provision of a hanger or support whereby a bottle of fluid may be held in such a way as to allow a gradual seepage of the fluid into the atmosphere for the purpose desired.

Such devices are old and well known in the art, but those already on the market are unreliable in that they admit flooding at times, the fluid being capable of flowing so freely at times that the supply becomes exhausted earlier than looked for, requiring unexpected attention and a further filling of liquid.

In my invention I provide a support for holding a bottle in inverted position, provide for a small perforation being made in the stopper, and surround said small hole with absorbent pads in such a way that the fluid is never allowed to flow freely and yet enough is permitted to escape at all times to insure fulfilling the object for which it is intended, either as a deodorant, disinfectant, or poison for moths or other objectionable insects.

I will now describe in detail an embodiment of my invention, in connection with the accompanying drawings, in which:

Fig. 1, is a vertical section through my invention showing a bottle of fluid supported therein.

Fig. 2, is a perspective view of the neck of the bottle with absorbent pads applied thereto.

Fig. 3, is an end view of the same.

Fig. 4, is an end view with the absorbent pads removed.

Fig. 5, is a view of one of the intermediate pads preferably of cork; and

Fig. 6, shows another of the pads, as of blotting paper or the like.

Figs. 7 and 8 are plan and elevation views respectively of the bottle neck receiving member of Fig. 1.

For the purpose of illustrating my invention I have shown in the accompanying drawings several forms thereof which are at present preferred by me, since the same have been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of the instrumentalities as herein shown and described.

The bottle support comprises a cup *a* provided with orifices *b* in its sides to allow full and free passage of the air therethrough. Cup *a* is secured to a hanger *c* which is detachably secured to a wall or post as by slot and pin connection *d*. Hinger *c* is provided with spring clip arms *e* for embracing a bottle *x*.

Cup *a* contains a conical ring *f* or wood or similar material, so tapered both inside and out as to provide a circular line seat at its upper end for supporting the inverted bottle.

The bottle of fluid is sealed by an imperforate cork washer *g* firmly held in place on the mouth of the bottle by an ordinary tin bottle cap *h* having a hole in its center. Another cork disc *i* may be placed upon the bottle cap and a rectangular piece of blotting paper or other absorbent material *j* placed over the cork and the ends bent down each side against the neck.

Another piece of absorbent material *k* is placed in ring *f* and pressed down near the bottom of the ring, its ends bending up to allow it to close the end, and a pin hole is punched in this material at its center. A pin hole is then punched through the center of the bottle closure, passing through the outer blotting paper, the cork disc, the hole in the bottle cap, and the cork washer, allowing a vent for the fluid in the bottle.

The bottle is now inverted and placed in the wooden ring in cup *a* against the absorbent material in the bottom of the ring with the pin holes aligning and the bottle at the same time snapped between clips *e*. The device is now ready for use, and while allowing the fluid to seep through the pin holes and saturate the absorbent material absolutely precludes any undue amount of flow, so that a small bottle of fluid may do its duty and yet last a comparatively long time.

It will now be apparent that I have devised a novel and useful construction which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description and while I have in the present instance shown and described the preferred embodiments thereof which have been found in practice to give satisfactory and reliable results, it

is to be understood that the same are susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

Having now fully described my invention, what I desire to claim and wish to protect by Letters Patent is:

1. A deodorizing device comprising a support, a truncated cone-shaped porous annulus the walls of which are of inverted, V-shaped cross-section carried by said support, said annulus having inner inclined walls arranged to receive the neck of a bottle, said annulus having an aperture in its bottom, absorbent material in the bottom of said annulus, an inverted bottle having its neck disposed in said annulus which bottle neck is wedged within said truncated annulus for supporting purposes, and a cap closing the mouth of said neck, said absorbent material and cap having minute apertures therethrough in vertical alignment with the annulus aperture whereby the tapering top of said annulus may quickly absorb material from within said bottle.

2. A deodorizing device comprising a support, a truncated cone-shaped porous annulus the walls of which are of inverted, V-shaped cross-section carried by said support, said annulus having inner inclined walls arranged to receive the neck of a bottle, said annulus having an aperture in its bottom, an apertured strip of blotting paper fixed across said annulus bottom, an apertured felt member superimposed upon said strip of blotting paper, an inverted bottle having its neck disposed in said annulus which bottle neck is wedged within said truncated annulus for supporting purposes, and a cap closing the mouth of said neck, said blotting paper, pad, and bottle cap closure having minute apertures therethrough in vertical alignment with the annulus aperture whereby the tapering top of said annulus may quickly absorb material within said bottle.

EUGENE J. REEFER.