March 12, 1929. M. B. KRUSI 1,705,256

LIQUID CONTAINER AND APPLICATOR

Filed Sept. 13, 1926

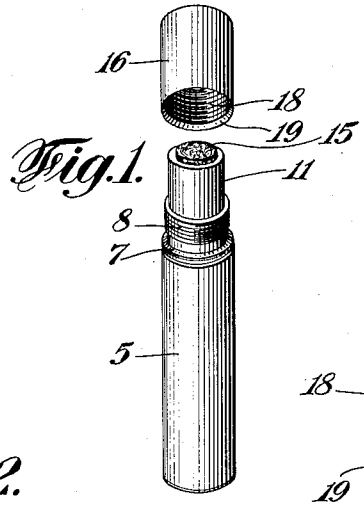


Fig. 1.

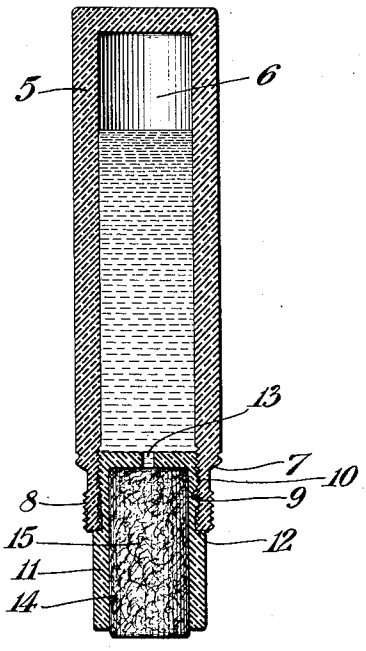


Fig. 2.

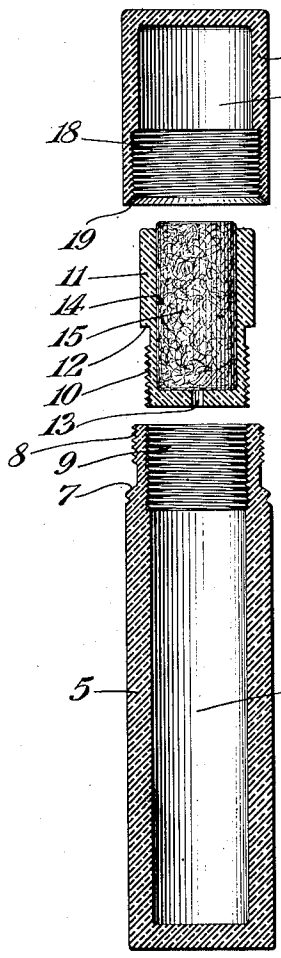


Fig. 3.

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UNITED STATES PATENT OFFICE.

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LIQUID CONTAINER AND APPLICATOR.

Application filed September 13, 1926. Serial No. 135,066.

This invention relates to combined liquid containers and applicators and more particularly to types suitable for carrying in the clothing or personal equipment of travellers, having in mind more specifically powerful but common liquid antiseptics, such for instance as iodine.

The popularity of iodine is well known, and attested by constantly increasing use; certain disadvantages however militate against its common use, one of which is that it is usually held in a glass bottle, easily fractured and if broken entailing ruinous consequences to the surroundings, tarnishing and corroding metals, due to its acid nature and discoloring fabrics.

Furthermore the alcoholic iodine solution has the property of decomposing either cork or rubber stoppers, leading to leakage and loss by evaporation, and finally much waste is invariably the result of makeshift devices in applying the liquid.

It is therefore one of the prime objects of the present invention to provide a neat appearing air and liquid tight container adapted to be carried in the pocket or otherwise in such manner as to be instantly available, the container being substantially unbreakable and which can be readily refilled.

A further feature is in the provision of an applicator combined with the container and so designed as to dispense a thin uniform coating of the iodine over a surface of any size or shape, repeating the same if desired to produce a covering of any desired thickness, the applicator being so constructed as to positively prevent excessive exudation of the contents of the container.

Another advantage is in the employment of a close fitting screw cap whereby evaporation is precluded and the applicator protected hygienically from contamination.

With these and other advantages in view the invention consists in the novel and practical construction and arrangement of parts hereinafter described and illustrated in the accompanying drawing, forming a material part of this disclosure and in which:—

Figure 1 is a perspective view of an embodiment of the invention showing the cap as disengaged.

Figure 2 is a longitudinal sectional view of the combined container and applicator in position for use.

Figure 3 is a view showing the several parts in detail separately.

The device comprises a hollow cylindrical body 5 preferably composed of hard rubber, although any other substance having equivalent properties may be used, the body being closed at one end and open at the other, presenting a chamber 6.

The portion of the body 5 at the open end is slightly contracted presenting a bevelled shoulder 7 beyond which is a screw thread 8 reaching to the end.

An interior screw thread 9 extends into the open end for a short distance and serves to connect a threaded stem 10 formed on an applicator plug 11, the plug having a distinct shoulder 12 to seat against the end of the container body.

A fine perforation 13 passes axially through the threaded portion of the plug leading to a cylindrical chamber 14 of larger bore adapted to receive and contain a compressed pledget 15 of saturable fibrous material, as asbestos, cotton or the like, capable of being renewed from time to time

The pledget may be in the form of a closely rolled tape and in any case should slightly protrude beyond the end surface of the plug 11 to act in the manner of a brush, thereby applying the liquid by which it is saturated through the aperture 13.

It is to be noted that the pledget covers the aperture 13 and fills the chamber 14 to such an extent that the body of a filled container may be inverted without its contents being spilled, the fibrous material acting by capillary attraction to become sufficiently saturated for dispensing the required quantity.

A cap 16 equivalent in diameter to the body 5 has a bore 17 of such size as to readily pass over the plug 11 the open end of the cap having screw threads 18 to engage the corresponding threads 8 and the end of the cap has a bevelled surface 19 to engage the bevel 7 of the body, thus forming an air, dust and liquid tight closure.

In operation the cap is removed and the brush-like pledget applied to the surface to be treated, the body acting not only as a container, but as a handle for this purpose.

While a certain preferred embodiment of this device has been shown and described, it will be understood that changes in the form, arrangements, proportions, sizes, and details

thereof may be made without departing from the scope of the invention as defined in the appended claim.

I claim:—

A combined container and applicator, comprising a chambered body of uniform bore to the open end that has external screw threads, the outer open end wall being reduced to form a shoulder and also screw threaded beyond the shoulder to the end, a plug member comprising a tube of uniform bore with one end having a closing wall with a small aperture therein, said closed plug end being externally reduced to form a shoulder and screw threaded to the shoulder and arranged to screw into the said threaded open end of the body until stopped by the shoulder on the plug engaging the body end, a pledget inserted in said plug bore to engage said apertured end wall thereof and receive medicament from the body through the wall aperture, the pledget extending beyond the open end of the plug a short distance for use as an applicator, and a cap with internal screw threads of a size to screw on the end of the body over and around the plug and pledget and seal the body.

Signed at New York in the county of New York and State of New York this 10th day of September, A. D. 1926.

MAX B. KRUSI.