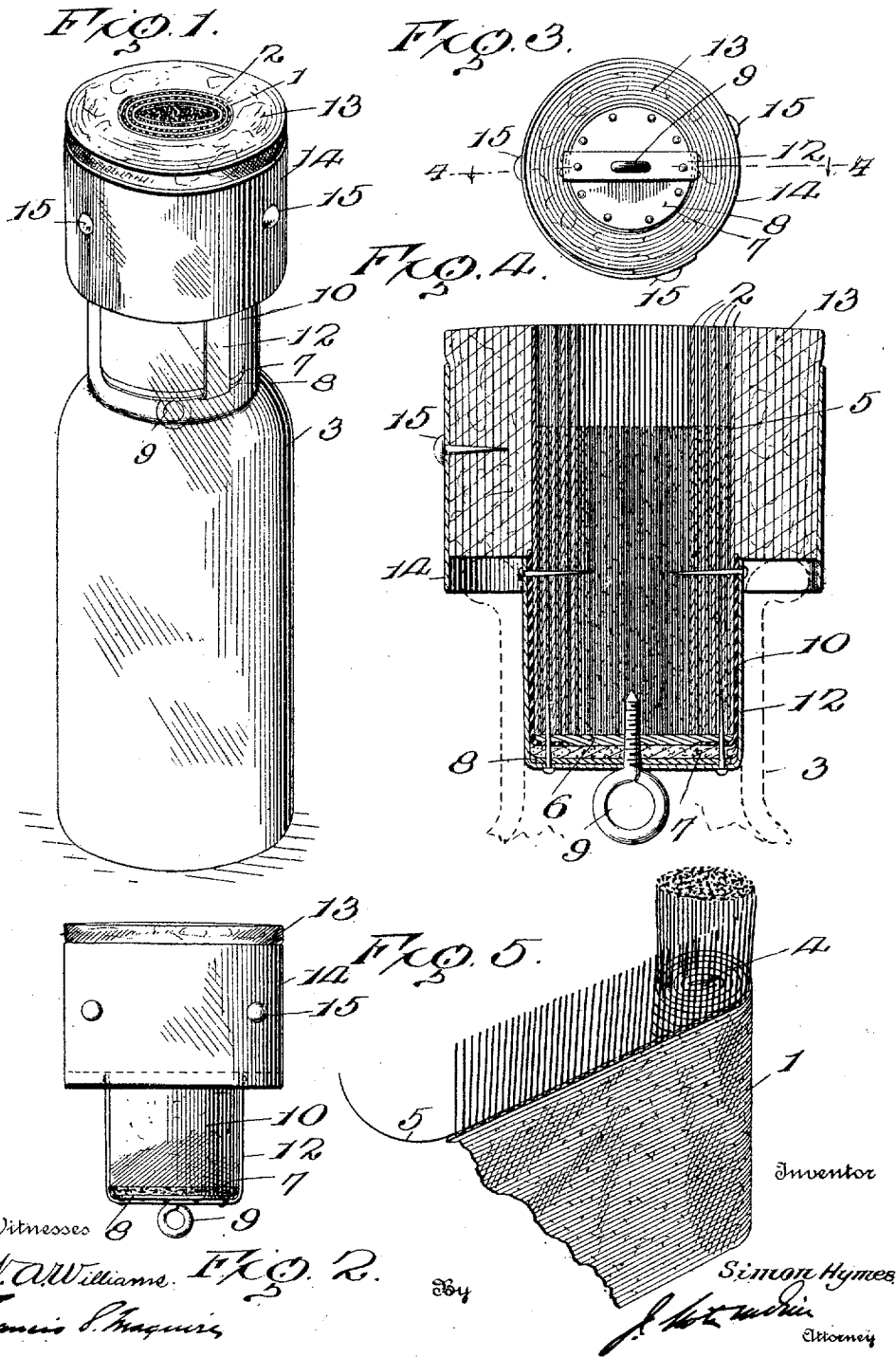


988,194.

Patented Mar. 28, 1911.



Witnesses

W. A. Williams. *FIG. 2.*
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UNITED STATES PATENT OFFICE.

SIMON HYMES, OF GLENWOOD SPRINGS, COLORADO.

CLEANSING DEVICE.

988,194.

Specification of Letters Patent. Patented Mar. 28, 1911.

Application filed February 23, 1910. Serial No. 545,320.

To all whom it may concern:

Be it known that I, SIMON HYMES, of Glenwood Springs, in the county of Garfield and State of Colorado, have invented certain new and useful Improvements in Cleansing Devices; and I do hereby 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.

The object of this invention is to so form the brush of a cleansing device that the cleansing medium will be centralized and prevented from splashing; and also to enable it to be used in cleaning silk as well as cloth.

A further object is to enable all foreign particles to be readily removed from the brush.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of the device as a whole. Fig. 2 is a side view of the stopper brush. Fig. 3 is an end view thereof. Fig. 4 is a sectional view on line 4—4, Fig. 3. Fig. 5 shows the inner end of the brush fabric.

In carrying out my invention I form the brush of hair cloth 1 wound upon itself, the outer layers being separated by a strip 2 of paper or other material having limited absorbent properties. The threads of the woof do not extend to the outer end of the brush, thereby providing flexibility for the threads of the warp. The brush forms the stopper for a reservoir 3, which latter is shown in the form of a bottle from which the cleansing medium, gasoline, or the like, will flow outwardly through the brush when the reservoir is inverted. The strip 2 of paper is employed to direct the passage of the cleansing medium longitudinally through the brush and also, by reason of its absorbent properties, to maintain a supply of the cleansing medium within the brush and thus prevent the formation of spots as will occur when only a limited quantity of a quickly volatilizable agent is employed.

The inner end of the hair cloth, at the axial center of the brush, is turned back upon itself at 4, as shown in Fig. 5, to form a loop, so to speak, so that the operator by inserting a pin or other pointed instrument

into the axial center of the brush may readily withdraw the outermost thread 5 of the woof, and by pulling such thread outwardly remove all foreign particles from the brush.

Over the inner end of the brush is located a disk 6, preferably of card-board, and against the latter is a felt disk 7 of slightly greater diameter, and against this is preferably placed a celluloid disk 8, the three disks being held together by a screw 9 which works in the core of the brush. By loosening this screw the outflow of the liquid through the brush may be controlled. An elastic band 10 preferably surrounds the inner end of the brush and its edge is drawn together and suitably fastened between the disks 6 and 7. This may, however, be omitted, if desired, as may also a narrow strip 12 of celluloid which is held by the screw and attached to opposite sides of the inner end of the brush.

13 designates a strip of woollen cloth wound upon the outer portion of the brush, the outer edges thereof being even with the outer end of the brush. To the strip of cloth a band 14 of celluloid is secured by tacks 15, such band protecting the hands of the operator from the cleansing medium. The cloth winding serves to centralize the cleansing medium and prevents it from spreading over the article being cleansed, such spreading usually resulting in the creation of spots, and sometimes in conflagrations. It also prevents undue volatilization and by its friction materially aids the brush in removing spots or stains from the fabric. In cleaning silk it is necessary that the brush proper, that is to say, the hair-cloth, should be kept out of contact therewith, and this may be accomplished by slightly inclining the bottle and depending wholly upon the cloth winding to effect the removal of the stain. In the event of the edge of the cloth winding becoming worn, leaving the hair cloth projecting beyond the plane thereof, the surrounding band 14 may be removed by withdrawing the retaining tacks 15 and thus allow the cloth to be removed and rewound on the brush.

The advantages of my invention will be apparent. It will be observed that by means thereof the cleansing of fabrics may be readily effected, and that the outflow of the cleansing medium may be controlled by

tightening or loosening the disks at the inner end of the brush. The cleansing medium is centralized and directed toward the outer end of the brush by the paper winding, and the production of the necessary friction is effected by the cloth winding which also prevents the splashing of the cleansing medium.

While my present invention is primarily intended as a cleansing device for fabrics, it may also be used by masseurs in rubbing with alcohol, and it may likewise be employed for cleaning type, wall surfaces, etc.

I claim as my invention:

1. A cleansing device consisting of a reservoir, a stopper therefor composed of a core of hair cloth wound upon itself, and a woolen strip wound upon itself and inclosing the outer portion of the hair cloth, the edge of said strip being on the same plane as the edge of the hair cloth.

2. A cleansing device consisting of a reservoir, a brush therefor composed of hair cloth wound upon itself, a paper strip interposed between the outer windings of the hair cloth to direct the cleansing fluid toward the outer end of the stopper, and a strip of woolen material surrounding the outer portion of the brush, the edge of said strip being

on the same plane as the edge of the hair cloth.

3. A cleansing device consisting of a reservoir, a stopper therefor composed of hair cloth wound upon itself, the inner end of the hair cloth, at the center of the brush, being turned back upon itself to form a loop, a strip of paper interposed between the outer windings of the hair cloth, and a strip of fabric wound upon the outer portion of the brush, the top thread of the woof being capable of being withdrawn to effect the removal of foreign particles from the brush.

4. A cleansing device consisting of a reservoir, a brush therefor composed of hair cloth wound upon itself, a strip of woolen fabric wound upon the outer portion of the brush, disks over the inner end of the brush within the reservoir, and a screw for adjustably securing said disks to said inner end.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

SIMON HYMES.

Witnesses:

THEODORE ROSENBERG,
KARL D. ROSENBERG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."