No. 644,142. Patented Feb. 27, 1900.

J. A. MULHERIN.

TRAP.

(Application filed Feb. 6, 1899.)

(No Model.)

Fig. 1.

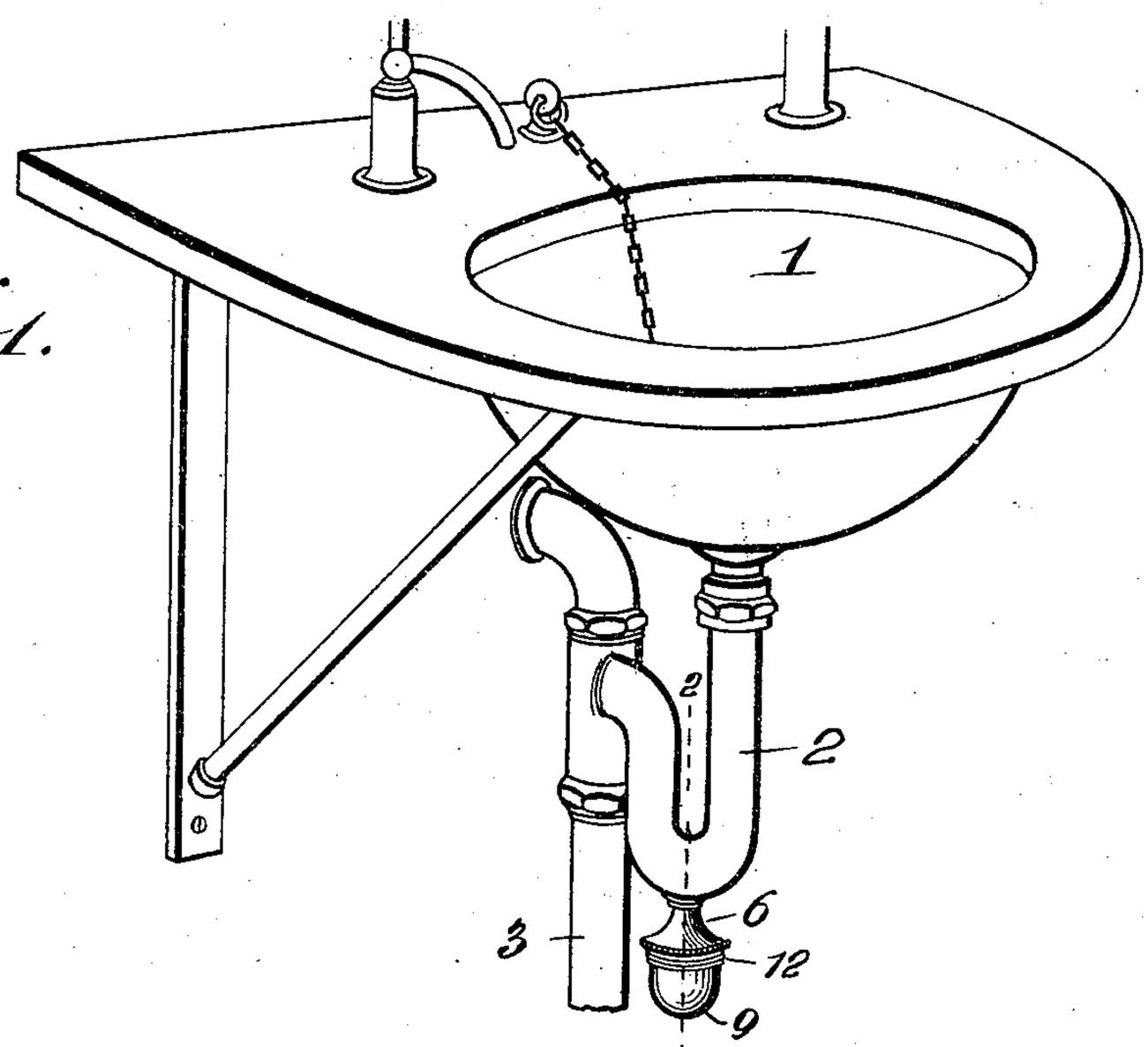
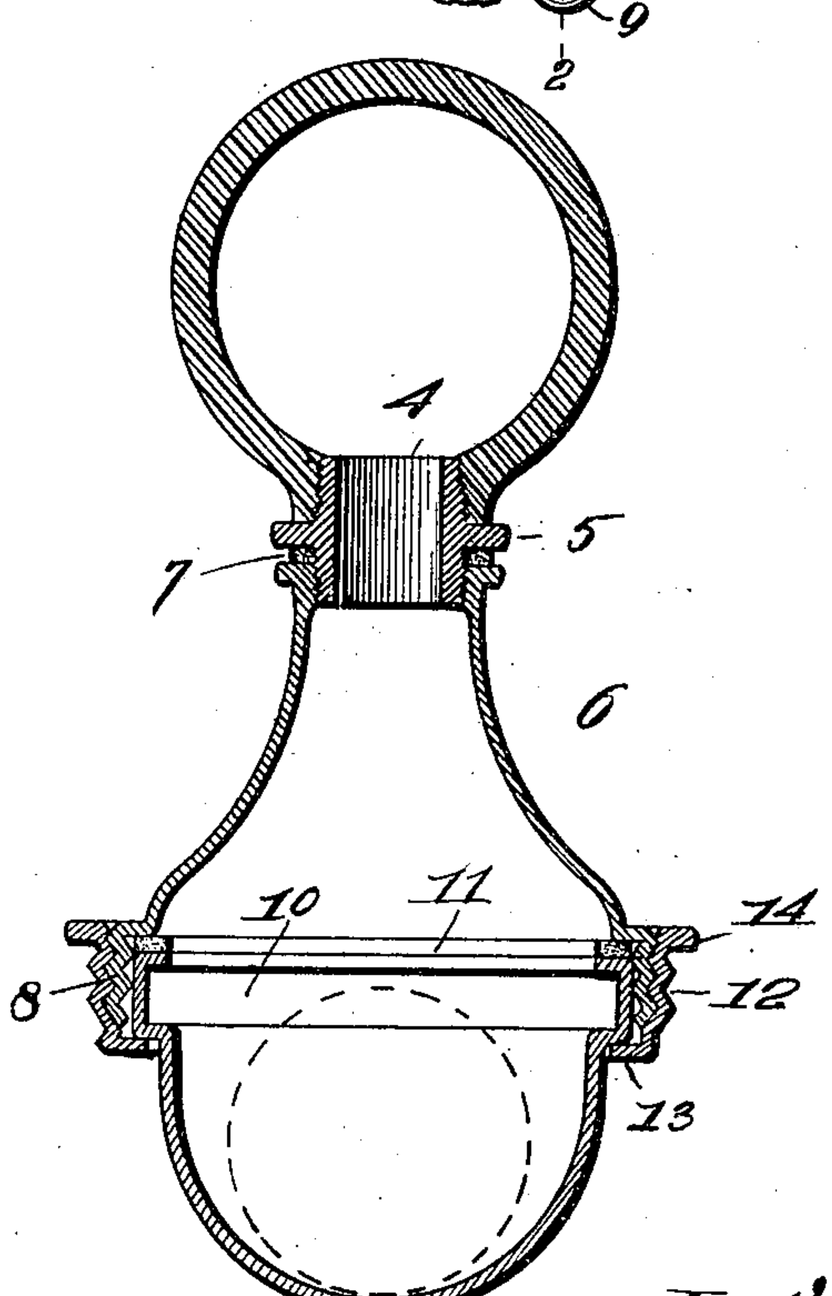


Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES A. MULHERIN, OF ST. LOUIS, MISSOURI.

TRAP.

SPECIFICATION forming part of Letters Patent No. 644,142, dated February 27, 1900.

Application filed February 6, 1899. Serial No. 704,665. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. MULHERIN, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Traps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to traps; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

The object of my invention is to construct and provide a trap with a combined sediment-cup and disinfectant or germicide holder.

Figure 1 is a view in perspective of a wash-bowl, the same being provided with one of my improved traps. Fig. 2 is an enlarged vertical sectional view taken approximately on the line 2 2 of Fig. 1.

Referring by numerals to the drawings, 1 indicates the bowl, and 2 the usual U-shaped soft-metal trap, the discharge end of said trap being connected to the waste-pipe 3, that leads to the sewer. Located in the under side of the lower end of the U-shaped trap 2 is an exteriorly-screw-threaded thimble 4, the same being provided with a laterally-projecting flange 5, which engages directly against the under side of the trap 2 when said thimble is properly seated in said trap.

6 indicates a hollow bell-shaped body, the upper end of which is interiorly screw-threaded in order that said body may be screwed onto the lower end of the thimble 4, there being a washer 7 arranged between the upper end of the body 6 and the flange 5 when said body is screwed onto the lower end of said thimble. Formed integral with and projecting downwardly from the lower edge of the body 6 is an exteriorly-screw-threaded flange 8.

9 indicates a semicircular cup, with the upper edge of which is formed integral a ring 10, which passes into the screw-threaded flange 8, there being a packing ring or washer 11, of leather, rubber, or analogous material, interposed between the upper edge of said ring 10 and the lower edge of the body 6.

12 indicates a union in the form of an interiorly-screw-threaded ring having an inwardly-projecting flange 13, formed integral with its lower edge, and an outwardly-projecting flange 14, formed integral with its upper edge, and when said ring is screw-seated upon the flange 8 of the body 6 the inwardly-projecting flange 13 engages beneath the shoulder formed between the body of the cup 9 and the ring 10. As said ring 12 is tightened in position the upper edge of the ring 10 clamps the flexible packing-ring 11 against the under edge of the body 6, and thus an air or water tight cup or receptacle is formed.

Previous to the putting together of the various parts of the cup or receptacle the body of germicide or suitable disinfecting material is located within the cup 9, said body of material being shown in dotted lines in Fig. 2. When the cup or receptacle is properly put together and is in position upon the trap 2, any sediment from the water within the trap 2 will gravitate downwardly into the bottom of said trap, and from thence will naturally pass through the thimble 4 and downwardly into the bottom of the cup 9. Any germs contained in the water within the trap and in the sediment which gravitates to the bottom of the cup 9 will be killed by the action of the body of germicide or disinfectant that is located within said cup 9, and at certain intervals or whenever it is found necessary the union or ring 12 may be unscrewed from the flange 8, thus allowing the cup 9 to be removed from the body 6 in order to discharge the sediment that has accumulated within said cup 9. If desired, this cup 9 may be constructed of glass, and when this is the case the interior of the combined cup and holder is at all times visible, thus enabling a person to see at a glance whether or not it is necessary to remove the cup 9 to discharge the sediment therefrom or to replace the body of germicide or disinfectant.

A trap of my improved construction is simple, inexpensive, requires very little attention, and is wholly sanitary.

I claim—

The improved disinfecting-trap, comprising the semicircular cup 9 upon the upper mar-

ginal edge of which is formed the enlarged integral ring 10, the U-shaped trap 2, the body 6, the upper end of which is connected to said U-shaped trap and the lower end of which is provided with the screw-threaded flange 8, the packing-ring or washer 11, and means whereby said integral enlarged ring 10 and the said washer 11 are securely clamped in place within said screw-threaded flange 8, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES A. MULHERIN.

Witnesses:
M. P. SMITH,
A. W. TYLER.