A. G. SCHMIDT.

WASTE PIPE PLUG.

APPLICATION FILED SEPT. 9, 1914.

1,136,441. Patented Apr. 20, 1915.

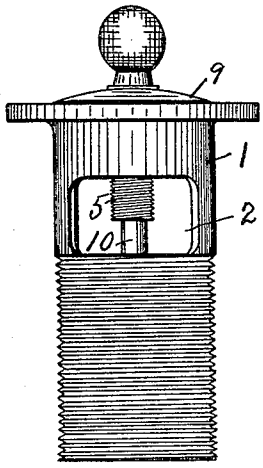


Fig. 1

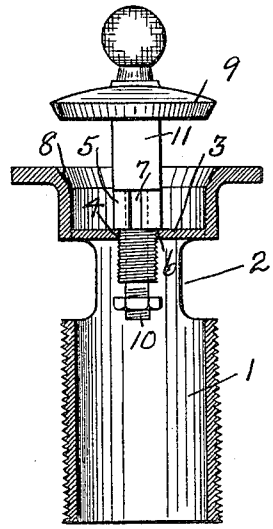


Fig. 2.

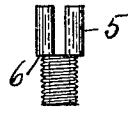


Fig. 4.

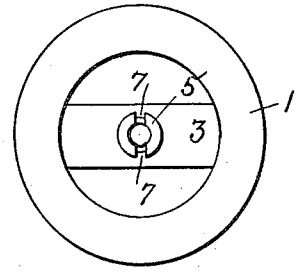


Fig. 3

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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WASTE-PIPE PLUG.

1,136,441. Specification of Letters Patent. Patented Apr. 20, 1915.

Application filed September 9, 1914. Serial No. 860,821.

To all whom it may concern:

Be it known that I, ALFRED G. SCHMIDT, a citizen of the United States, residing at Baltimore, State of Maryland, have invented certain new and useful Improvements in Waste-Pipe Plugs, of which the following is a specification.

This invention relates to improvements in waste pipe plugs for use in connection with washbasins, washtubs, sinks, etc., and has for its object to dispense with the chains in general use as well as to provide a more convenient plug.

The invention consists of the novel construction and arrangement of the parts and combination of parts hereinafter more fully set forth in the following specification and pointed out in detail in the appended claims.

In the accompanying drawings,—Figure 1 is a side elevation with the plug seated. Fig. 2 is a vertical sectional view with the plug unseated. Fig. 3 is a detail side elevation of the slotted seat. Fig. 4 is a plan view of Fig. 1, the plug being removed.

Referring to the accompanying drawings, forming part of this specification, and in which like reference numerals designate like parts throughout the several views thereof, 1 designates the discharge pipe which is secured to the tub or basin (not shown) in the usual manner, and which is provided with the overflow apertures 2, 2 and the cross-piece 3, which latter is provided with a screw-threaded aperture 4 into which is screwed the tubular seat 5. The said seat 5 has a central aperture extending therethrough and a shoulder 6 which rests on the cross-piece 3, and is also provided with slots 7, 7 on opposite sides thereof extending from the upper edge thereof down to said cross-piece 3. At its upper end the discharge pipe 1 is provided with a ground seat 8 for the plug 9, which latter is also ground to fit said seat 8 and has a stem 10 projecting from its lower surface, the portion of said stem adjacent the plug 9 is flat, as at 11, for a short distance and adapted to operate up and down in the slots 7, 7, and to rest on the top of the seat 5 when the plug is unseated.

When the discharge pipe is closed the parts are in the position shown in Fig. 1 of the drawing, and when it is desired to open the said discharge pipe to allow the water to flow from the tub or basin, the plug 9 is raised until the lower end of the flat portion 11 of the stem passes the upper edge of the seat 5 when the plug is turned to allow the said flat portion 11 to rest on the upper edge of the seat 5. To close the discharge pipe, the plug is turned until the flat portion 11 of the stem comes in line with the slots 7, 7 when the said plug will drop and seat itself. It will be seen that the seat 5 is screwed into position in the cross piece 3 and is therefore removable at will.

Having thus described my invention, what I claim is:

1. The combination of a discharge pipe having a cross-piece near its upper end, and a seat removably secured to said cross-piece and having slots in its opposite sides above said cross-piece, and a plug adapted to seat in the upper end of said discharge pipe and having a stem on its lower surface having a portion thereof adapted to operate in said slots and to rest on the upper edge of said seat to hold the plug in the unseated position.

2. The combination of a discharge pipe having a cross-piece near its upper end, and a slotted seat projecting above said cross-piece, and a plug adapted to seat in the upper end of said discharge pipe and having a stem on its lower surface projecting through said seat and having a flat upper end adapted to operate in the slots of said seat and to rest on the upper end of said seat to hold the plug in the unseated position.

3. The combination of a discharge pipe having a cross-piece near its upper end provided with a screw-threaded aperture and a seat having a screw-threaded lower end adapted to be screwed into the aperture in said cross-piece and having slots in its opposite sides above said cross-piece, and a plug adapted to seat in the upper end of said discharge pipe and having a stem on its lower surface having a portion thereof adapted to operate in said slots and to rest on the upper edge of said seat to hold the plug in the unseated position.

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

ALFRED G. SCHMIDT.

Witnesses:

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