A. G. SCHMIDT.

WASTE PIPE PLUG.

APPLICATION FILED MAR. 24, 1913.

1,107,363. Patented Aug. 18, 1914.

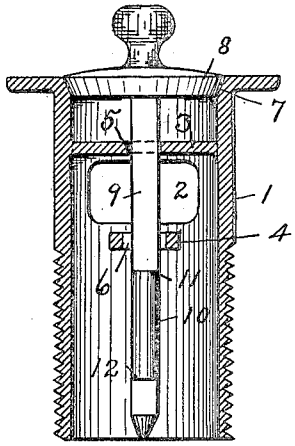


Fig. 1.

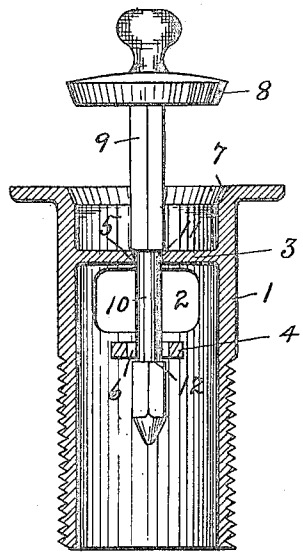


Fig. 2.

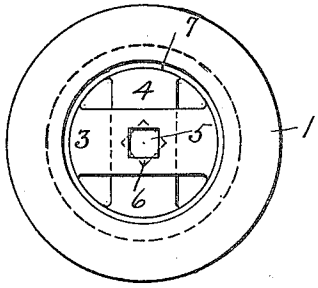


Fig. 3.

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UNITED STATES PATENT OFFICE.

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WASTE-PIPE PLUG.

1,107,363. Specification of Letters Patent. Patented Aug. 18, 1914.

Application filed March 24, 1913. Serial No. 756,276.

To all whom it may concern:

Be it known that I, ALFRED G. SCHMIDT, a citizen of the United States, residing at Baltimore, in the 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.

The plugs in general use are provided with chains for securing them to the tub or basin. These chains are objectionable as they frequently become disconnected and also collect the dirt between the links thereof.

By my present invention I overcome the aforesaid objections by providing a chainless plug, and one that is simple in construction and easy of operation.

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

In the accompanying drawings, Figure 1 is a vertical sectional view of my invention with the plug seated. Fig. 2 is a similar view with the plug in the unseated, or discharge, position. Fig. 3 is a plan view of the discharge-pipe with the plug removed.

Referring to the accompanying drawing, 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-pieces 3 and 4, which latter are provided with square apertures 5 and 6 in vertical alinement, but having their sides set at different angles, as shown in Fig. 3, for the purpose hereinafter set forth. At its upper end the discharge-pipe 1 is provided with a ground seat 7 for the plug 8. The plug 8 is ground to fit the seat 7 and has a stem 9 projecting from its lower surface. Said stem 9 is square at the upper and lower ends and is provided with a rounded, or cut-away, portion 10 to form the shoulders 11 and 12. 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, basin, etc., the plug 8 is raised until the shoulder 11 passes the upper surface of the cross-piece 3, at which point the shoulder 12 will strike against the lower surface of the cross-piece 4 owing to the sides of the aperture 6 being at a different angle from those of the aperture 5. The plug is then turned slightly which permits the shoulder 11 to rest on the cross-piece 3 and hold the plug in the open, or discharge, position, as shown in Fig. 2. To close the discharge pipe, the plug is turned until the square sides of the upper end of the stem 9 come in line with those of the aperture 5 when the plug will drop to its seat and assume the closed position shown in Fig. 1. Should it be desired to remove the plug entirely from the tub, basin, etc., the plug is raised to the position shown in Fig. 2 and then turned until the sides of lower square end of the stem 9 come in line with those of the aperture 6, when the said plug can be raised and turned to allow said lower square end of the stem 9 to pass through the aperture 5.

Having thus described my invention, what I claim is:

1. The combination of a discharge-pipe having two cross-pieces on the inside thereof at right angles to each other and each having an aperture therethrough, 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 apertures and having a shoulder thereon adapted to rest on the upper one of said cross-pieces.

2. The combination of a discharge-pipe having two cross-pieces on the inside thereof, each having a square aperture therethrough in line with each other, the sides of one aperture being at a different angle to

those of the other aperture, and a plug adapted to seat in the upper end of said discharge-pipe and having a square stem on its lower surface rounded, or cut away, between the ends to form shoulders adapted to impinge against the upper and lower cross-pieces.

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

ALFRED G. SCHMIDT.

Witnesses:
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