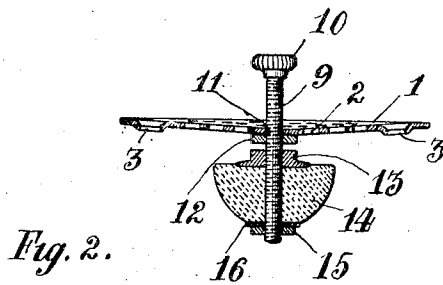
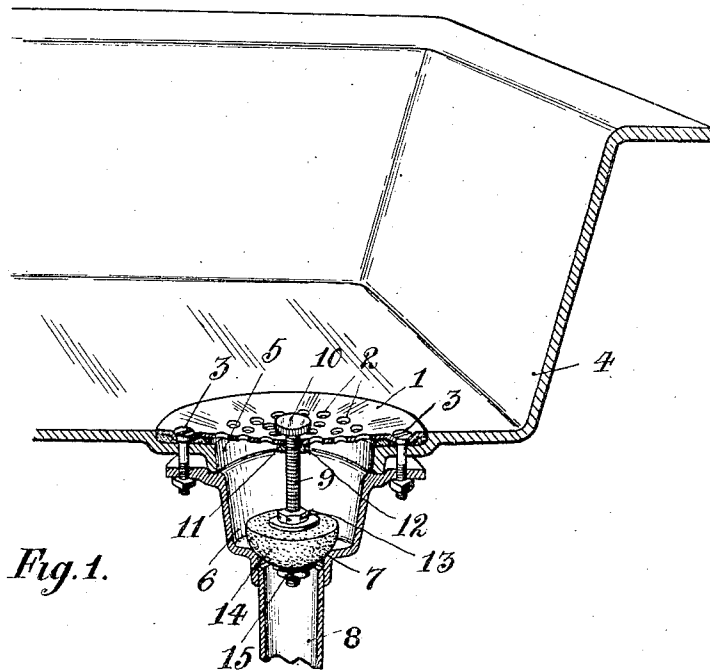


936,313.

Patented Oct. 12, 1909.



Witnesses.

Harry Davis

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Inventor.

O. J. Deegan

By E. J. Vetterstoekhaugh
att'y.

UNITED STATES PATENT OFFICE

OSWALD JAMES DEEGAN, OF PORT ARTHUR, ONTARIO, CANADA.

SINK-STOP.

936,313.

Specification of Letters Patent.

Patented Oct. 12, 1909.

Application filed January 23, 1908. Serial No. 412,346.

To all whom it may concern:

Be it known that I, OSWALD JAMES DEEGAN, subject of the King of Great Britain, residing in the town of Port Arthur, in the county of Algoma, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Sink-Stops, of which the following is a specification.

The invention relates to improvements in sink stops, as described in the present specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially in closing the opening to the waste pipe with a plug arranged beneath the outlet opening plate at the lower end of the threaded spindle introduced into a correspondingly threaded orifice through said outlet plate.

The object of the invention is to devise a stop in which the means for operating is positive, thereby freeing the outlet from all danger of clogging.

In the drawings, Figure 1 is a sectional perspective view of the device as applied to a sink. Fig. 2 is a cross sectional view of the outlet plate and stop inserted there-through.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is the outlet plate centrally perforated with the plurality of holes 2 and having the screw holes 3 toward each side edge.

4 is the sink bowl having the outlet opening 5 closed in by the said plate 1 and having beneath said outlet opening the cup 6 forming at its lower end the valve seat 7 and leading to the waste pipe 8.

9 is a threaded spindle having the knurled head 10 and introduced into a central threaded orifice 11 extending through the outlet plate 1 and block or nut 12 rigidly secured to said plate on the underside thereof.

13 is a nut arranged on the said spindle 9 intermediate of its length.

14 is a plug or stop preferably formed of resilient material, such as rubber, and having a central orifice therethrough and mounted on the spindle 9, being securely held thereon against the nut 13 by the nut 15 at the lower end of said spindle, a suitable washer 16 being introduced between said nut

15 and the lower side of said plug or stop. Said plug or stop 14 is of half ball form, the flat side thereof being arranged at the top and the curved portion engaging the valve seat 7. It will be thus seen that in order to close the opening to the waste pipe, the spindle is screwed downwardly until the plug or stop 14 closely engages the seat 7 and prevents the egress of water or other liquid from the sink bowl 4, and in order to flush the sink out, the spindle 9 is turned in the threaded hole and the plug or stop 14, thus positively lifted from its seat 7, leaving the opening to the waste pipe 8 perfectly free.

The advantage of this simple and positive means of closing the egress opening from a sink bowl, is obvious to those having experience with many forms of stops used in basins and bowls and baths and so forth, as not only is the common form of plug quite inappropriate for sink construction but other and more complicated arrangements are both expensive and unnecessary. In addition this form of stop may be used for other bowls, besides sink bowls, though the particular object of the invention is as stated in the foregoing to devise a stop for sinks.

What I claim as my invention is:

In a sink stop, a plate having a plurality of holes therethrough and a central threaded hole and suitably secured in the sink outlet opening, a threaded pin having a thumb nut at the top thereof, a semi-ball valve adjustably secured on said pin, and a cup-shaped valve chamber rigidly secured to the sink through extending flanges thereon and having an opening therefrom at its lower end encircled by a downwardly extending flange and adapted to externally telescope the upper end of a waste-pipe, the shoulder at the upper end of said downwardly extending flange forming a valve seat for said semi-ball valve.

Signed at the town of Port Arthur, in the county of Algoma, in the Province of Ontario, in the Dominion of Canada, this 12 day of Dec. 1907.

OSWALD JAMES DEEGAN.

Witnesses:

E. W. HOWE,
JAMES HANLEY.