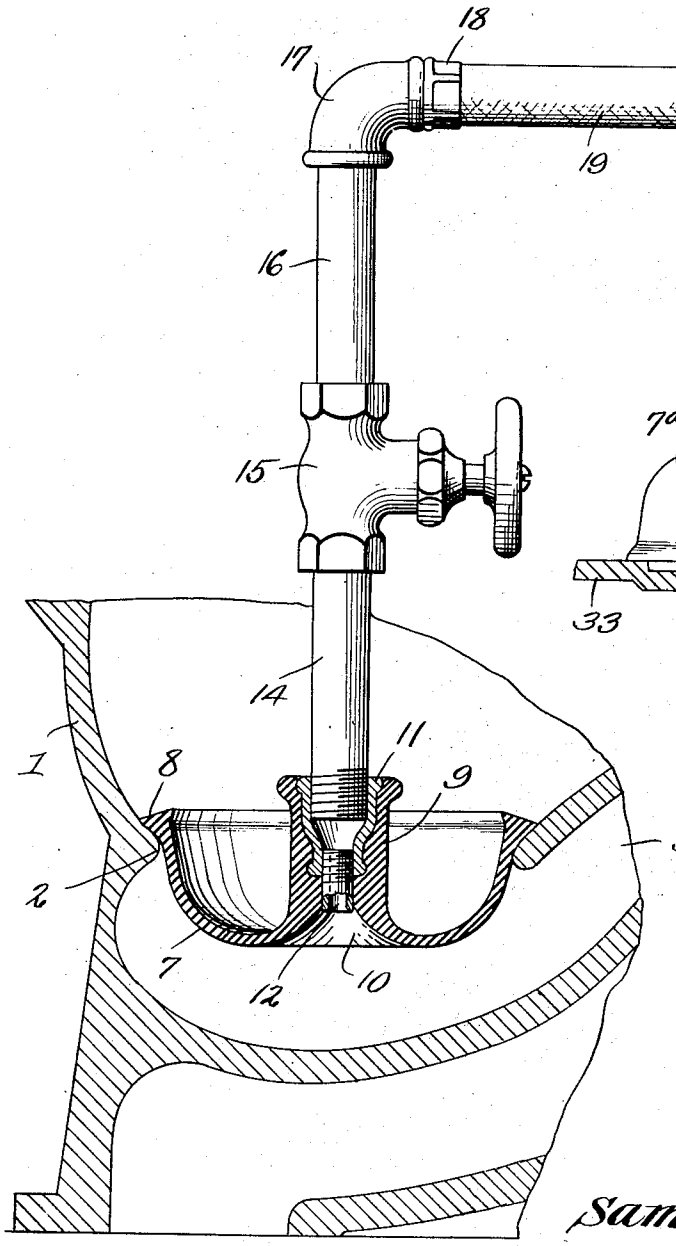
Dec. 26, 1933. S. WILLIAMSON 1,941,065

FLUSHER

Filed Jan. 17, 1933

Fig. 1.



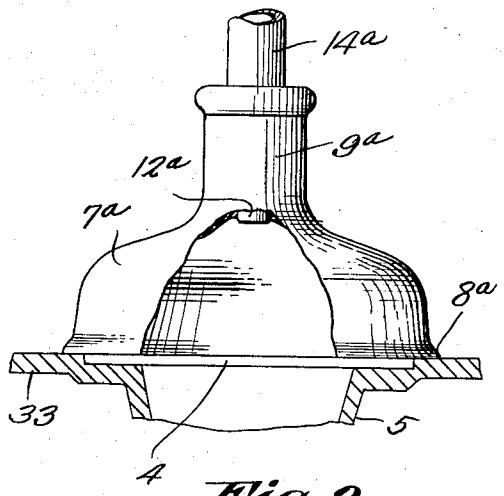


Fig. 2.

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1 Claim. (Cl. 4—255)

This invention aims to provide a simple but novel and effective means for forcing an obstruction out of a water closet, or out of the outlet of a sink.

Figure 1 shows the device in use in a water closet, and is a section, wherein some parts are in elevation;

Figure 2 is an elevation showing the device used to remove an obstruction in the outlet of a sink, parts being in section, and parts being broken away.

The numeral 1 marks a water closet bowl having an opening 2 leading to the outlet 3.

The numeral 33 designates the bottom of a sink, wash bowl or the like, having an opening 4 leading to the outlet 5.

This invention aims to provide a novel means for forcing an obstruction out of the outlet 3 of the closet bowl 1, or out of the outlet 5 of the sink or wash bowl 33.

The device forming the subject matter of this application comprises, as shown in Fig. 1, a cup-shaped resilient body 7, preferably made of rubber, or a rubber compound. The body 7 has a marginal rib 8, which projects both inwardly and outwardly.

At its center, the body 7 has an upstanding neck 9 located partly within the body. At its lower end, the neck 9 has a flared mouth 10.

A reducer 11 is secured in the upper end of the neck 9. A nozzle 12 is threaded into the lower end of the reducer 11 and discharges at the upper end of the flared mouth 10.

A pressure conduit is provided. This conduit may include a rigid pipe 14 threaded into the upper end of the reducer 11, a valve 15 under the control of an operator and secured on the upper end of the pipe 14 by threading or otherwise, a pipe 16 threaded into the upper end of the valve 15, a reducing elbow 17 threaded on the upper end of the pipe 16, and a hose 19, the hose having a coupling 18 detachably assembled with the elbow 17, and a coupling 20 whereby the conduit may be connected to a source of water pressure (not shown). The hose 19 may be of any desired length, so that the source of water pressure supply can be reached conveniently.

The body 7 is forced into the opening 2 of the water closet bowl 1, and fits tightly therein, because the body is resilient, the rib 8 engaging the bowl 1, about the opening 2, and preventing the body 7 from being shoved down into the outlet 3. The valve 15 is opened more or less, the water flows through the parts 20, 19, 18, 17, 16, 15, and 11, and is discharged with considerable force through the nozzle 12, because the bore of the nozzle is smaller than the bore of the pipe 14. Since the nozzle 12 is threaded into the lower end of the reducer 11, the particular nozzle shown may be taken out readily, and a nozzle of different shape or size substituted therefor. The hydrostatic pressure created in the outlet 3 will force out any obstruction that is not too securely lodged therein.

In Fig. 2, parts hereinbefore described have been designated by numerals previously used, with the suffix "*a*". In Fig. 2, no change has been made in the article as it comes from the manufacturer, but the upstanding skirt of the body 7, in Fig. 1, is turned down, as shown in Fig. 2, so that the lower end of the body may rest upon the bottom 33 of the sink or wash bowl, about the opening 4, the neck 9*a* being disposed above the body 7*a* and entirely on the outside of the same.

The body 7 is resilient and, therefore, the article can be moved up and down, while it is in the position of Fig. 1, or in the position of Fig. 2, to bring about a churning action of the water in the outlet 3 of the closet bowl 1, or in the outlet 5 of the sink 33.

Having thus described the invention, what is claimed is:

A device for dislodging stoppage in water closets, comprising a resilient cup-shaped body, open at the top, and of such diameter as to fit tightly in the opening in the bottom of the bowl of the closet, with substantially all of the body extended downwardly into the outlet of the closet, the body being provided on its bottom with a tubular portion extended upwardly into the body, a water supply pipe assembled with the tubular portion, and a reduced nozzle communicating with the pipe and carried by the tubular portion: the device being characterized by the following features which facilitate the operation of the device by a churning motion, with substantially all of the body extended downwardly into the closet outlet, an outstanding marginal rib on the body and overlapping the upper surface of the closet bottom, about said opening, the body being thinner than the rib, and therefore readily yieldable, the internal diameter of the body being equal to about three times the external diameter of the tubular portion, to afford a large yieldable area in the body, the nozzle being housed in the tubular portion, and the body having a downwardly-flared recess located immediately below the nozzle, the recess adding to the flexibility of the body, the nozzle discharging into the recess.

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