

June 10, 1930.

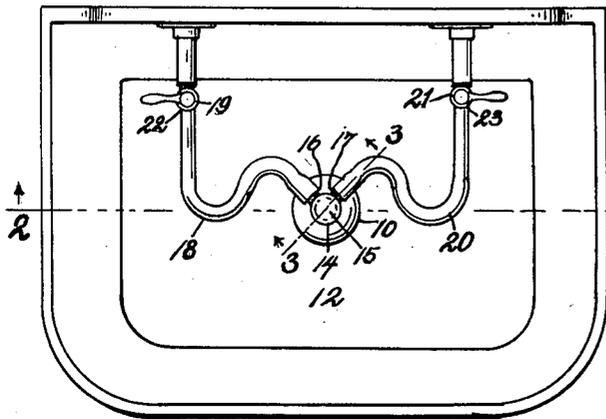
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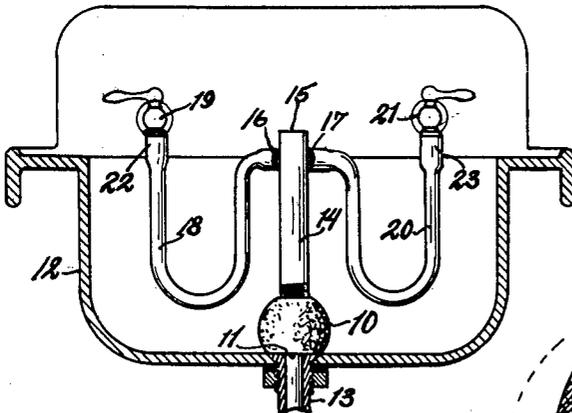
DRAIN PIPE CLEANER

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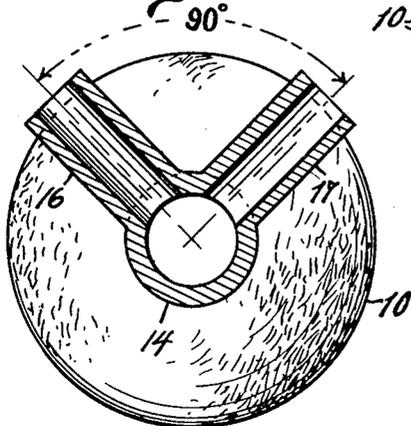
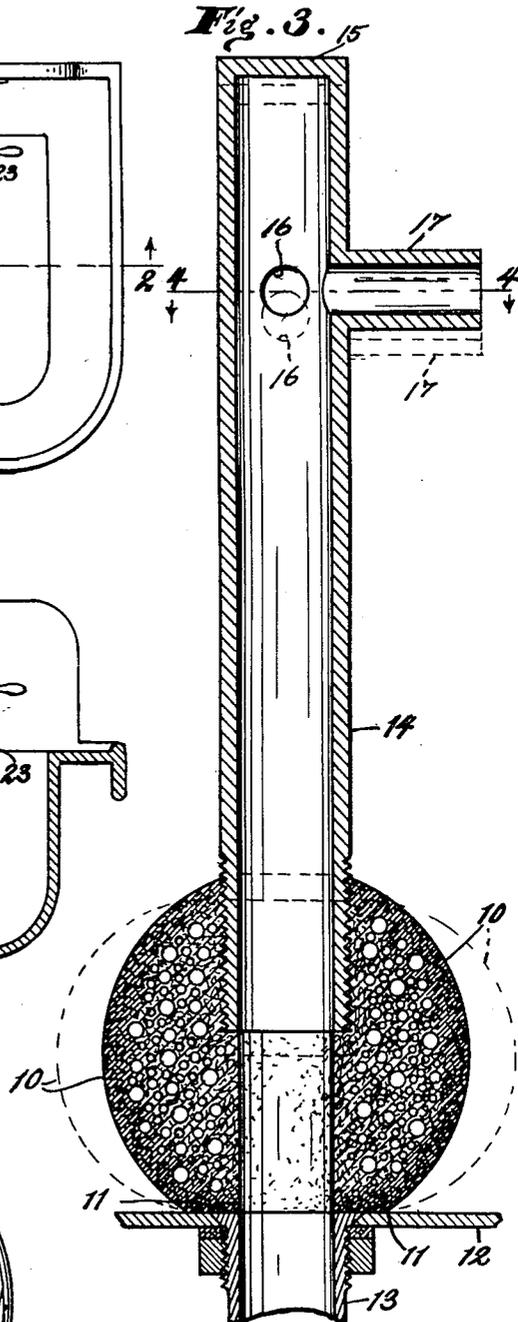
**Fig. 1.**



**Fig. 2.**



**Fig. 3.**



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# UNITED STATES PATENT OFFICE

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## DRAINPIPE CLEANER

Application filed June 10, 1929. Serial No. 369,885.

This invention relates to means for quickly and easily cleaning out drain pipes and the like, and the principal object thereof is to provide a drain pipe cleaner that is effective in removing foreign substances from drain pipes, especially substances lodged in air seals that are compact in a mass of grease, soap or the like. To that end I provide a cleaner provided with two flexible pipe lines, one of which can be secured to the hot water faucet so that the soap and grease in the mass can be softened or melted by the hot water, and the other pipe can be connected to the cold water faucet to add volume to the water discharging on the mass, so that as soon as the mass has been softened the volume of water will dislodge it from the drain pipe or air seal.

that is constructed in accordance with this invention.

Fig. 2 is a section on line 2—2, Fig. 1, showing another view of the drain pipe cleaner.

Fig. 3 is an enlarged fragmental section on line 3—3, Fig. 1, showing the drain pipe cleaner arranged over the inlet end of a drain pipe ready for use, parts being about actual size.

Fig. 4 is a cross section on the line 4—4, Fig. 3, showing the nipples arranged about ninety degrees apart so that their respective flexible pipes can be more conveniently attached to the hot and cold water faucets of the wash bowl.

The drain pipe cleaner includes a sponge rubber ball 10 having a flattened base 11 that is adapted to be seated on the bottom of a wash bowl 12 and over the inlet end of a drain pipe 13 so as to prevent leakage between the ball base and drain pipe when the appliance is in use.

Extending vertically to the flattened portion 11 and centrally through the ball 10 is a center opening into the upper end of which the lower threaded end of a stand-pipe 14 is secured; and preferably the opening through the stand-pipe is about the same diameter as the inlet opening into the drain pipe, it being understood that it can be either larger or smaller if so desired.

The top end of the stand-pipe 14 is sealed by an integral plug 15 and some distance below the plug the stand-pipe is provided with nipples 16 and 17 that preferably are arranged at right angles to one another and the openings through these nipples is considerably less than the inside diameter of the stand-pipe so that the latter can easily take the full flow of water through the nipples.

The nipple 16 is connected by a flexible pipe 18 to the hot water faucet 19, and the other nipple 17 is connected by a flexible pipe 20 to the cold water faucet 21 so that either or both faucets can be opened as may be desired to discharge water into the stand-pipe 14 to drive foreign substances out of the drain pipe 13.

Another object of the invention is to provide a drain pipe cleaner that can be easily manipulated to cause all of the water under whatever pressure it may be to discharge into the drain pipe. To that end I provide a stand-pipe mounted on a sponge ball base with an opening through the base about the same diameter as the opening in the drain pipe so that the full discharge of water from both faucets can pass into the drain pipe, and also the stand-pipe forms an elongated handle by which an operator can apply great pressure to the sponge base to seat it over the inlet to the drain pipe to positively prevent leakage between the base and drain pipe so that the entire pressure on the water can be directed into the drain pipe.

Features of invention are shown in the construction, combination and arrangement of parts whereby a drain pipe cleaner is provided that is neat and pleasing in appearance, easy to construct and operate and durable and effective in use.

Other objects, advantages and features of invention may appear from the accompanying drawings, the subjoined detailed description and the appended claims.

The accompanying drawings illustrate the invention in which:

Figure 1 is a plan view of a wash-bowl showing a drain pipe cleaner in use therein

The nipples 16 and 17 are preferably arranged at right angles to one another so that their respective pipes 18 and 20 extend toward the faucets 19 and 21, it being understood that the connection between the pipes and their respective nipples is relatively permanent or fixed; with the inlet ends 22 and 23 of the respective pipes 18 and 20 detachable from the faucets.

Also the nipples 16 and 17 are arranged some distance below the seal 25 so as to form an air chamber above the inlet ends of the nipples which aids in maintaining a pressure on the water when the stand-pipe is charged with water to a point above the openings through the nipples.

In use the apparatus is placed in the wash-bowl 12 with the ball base seated over the discharge pipe so that the opening through the base and pipe are in register. Then with the flexible pipes 18 and 20 connected, as stated, the hot water faucet 19 can be opened to fill the standpipe and drain pipe in the event the latter is fully stopped by foreign substance in the water seal or any other portion of the pipe. The stand pipe serves as a handle to hold the base seated so as to prevent leakage between it and the inlet end of the drain pipe while the hot water is acting on the foreign substance to melt the grease or soap therein.

The ball 10 is formed of soft sponge rubber so that it can yield considerably as indicated by the dotted line position shown in Fig. 3 and so the soft rubber base can be seated on uneven surfaces so as to prevent leakage between the base and inlet end of the discharge pipe 13.

After the hot water has been applied to so soften the soap or grease the cold water faucet 21 is turned on to add volume to the water to drive out the mass of substance causing the stoppage. It is understood that this drain pipe cleaner can be used in cleaning out sinks, wash-tubs, bath-tubs and the like.

I claim as my invention:

1. In a drain pipe cleaner the combination of a sponge rubber ball base adapted to be seated so that a center opening there-through is in register with the inlet ends of a drain pipe, a stand-pipe having its lower end secured in the opening through said base that serves as a handle for applying pressure to prevent leakage between said base and drain pipe, nipples arranged at right angles to one another and adjacent the upper end of said stand pipe, water faucets, and flexible detachable pipe connections between said faucets and nipples.

2. In a drain pipe cleaner the combination of a sponge rubber ball base, a drain pipe having an inlet end over which said base is adapted to be seated so that a center opening through said base registers with

the inlet opening in said drain pipe, a stand-pipe having its lower end secured in the upper end of the opening through said base, the diameter of the openings through said stand and drain pipes being substantially equal, nipples arranged at right angles to one another and adjacent the top of said stand-pipe, hot and cold water faucets, and flexible pipe connections between said faucets and nipples, the inside diameter of each of said pipe connections being less than the inside diameter of said stand-pipe for the purpose specified.

In witness whereof, I have hereunto affixed my signature.

BERT L. BROWN.