Nov. 1, 1932. L. S. DENISON 1,885,977

DRAIN PIPE FOR FLUSHING ATTACHMENTS

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Fig. 1.

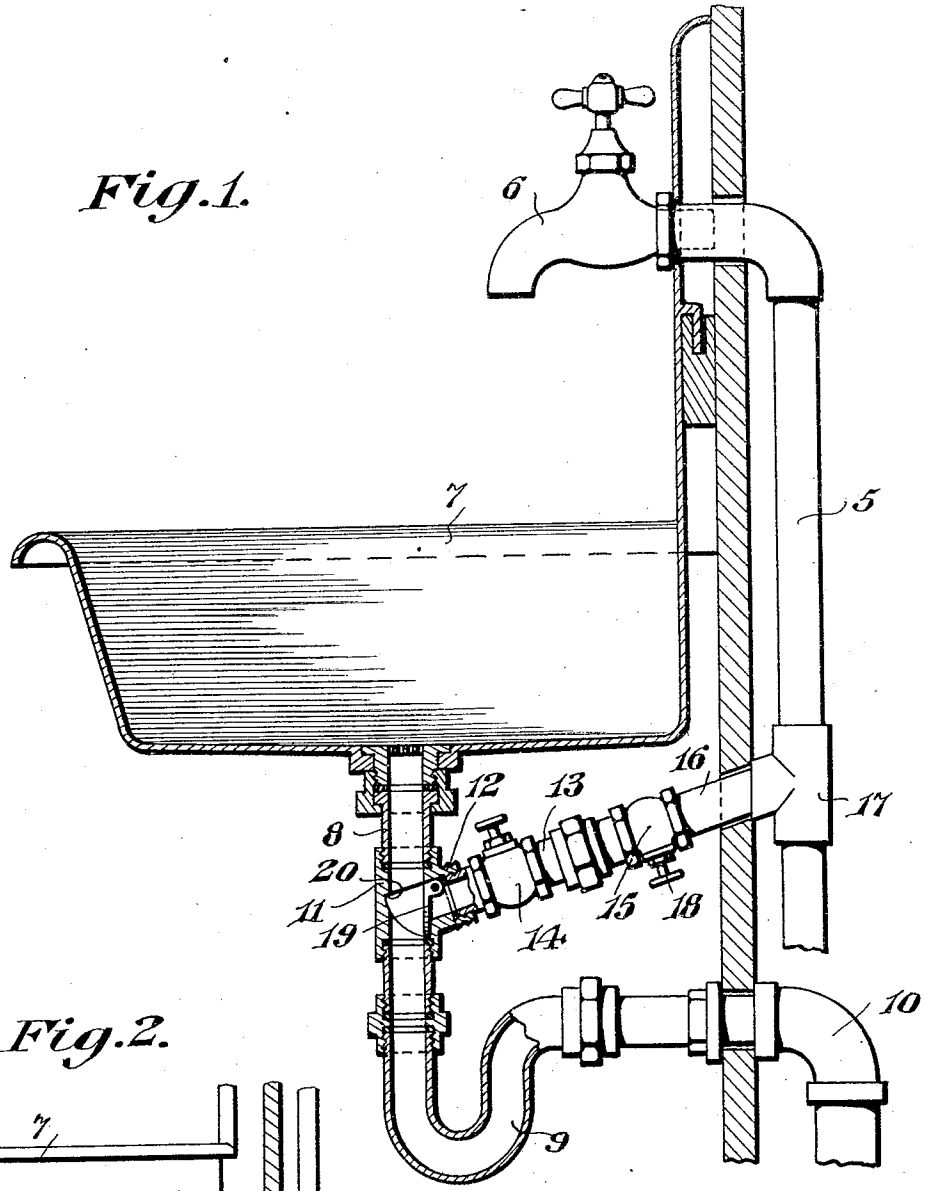
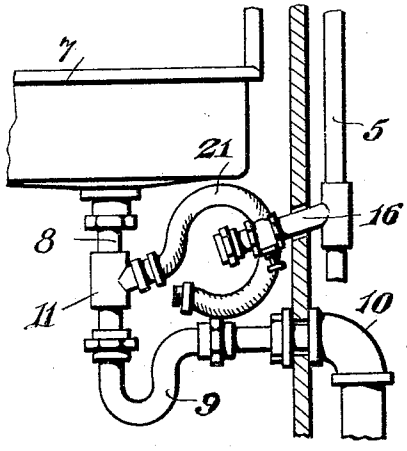


Fig. 2.



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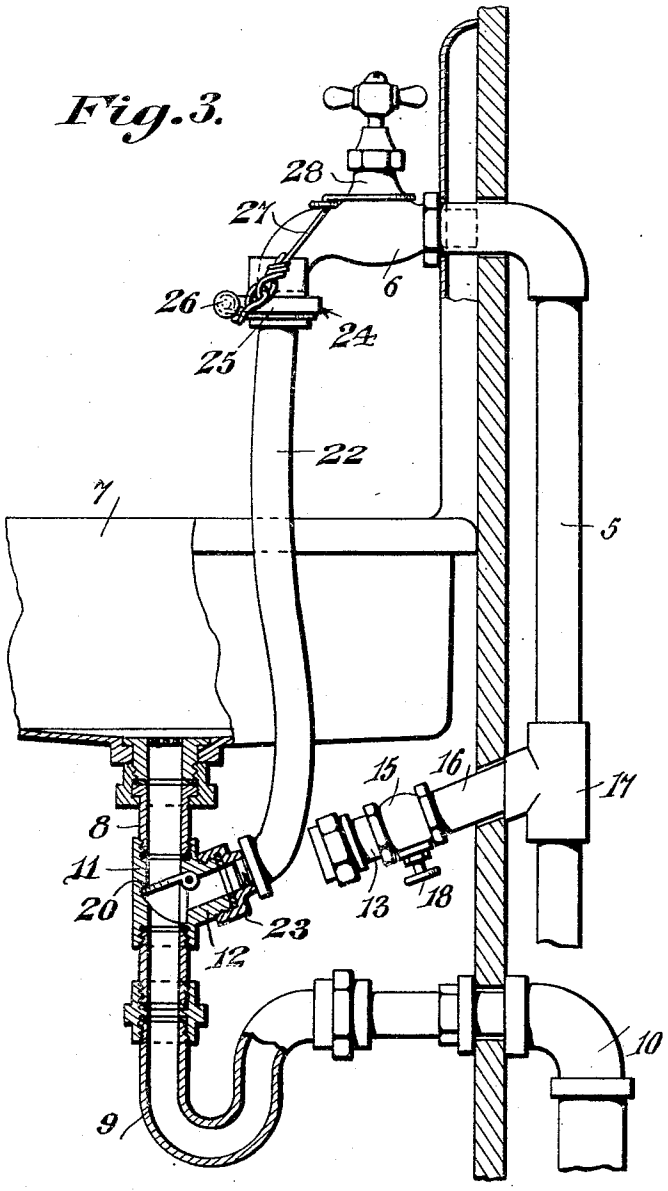
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Fig. 3.



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UNITED STATES PATENT OFFICE

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DRAIN PIPE FOR FLUSHING ATTACHMENTS

Application filed February 17, 1930. Serial No. 429,149.

This invention relates to a device employed primarily for opening drain pipes of sinks or the like.

An important object of the invention is to provide a device of this character wherein the water pressure of the city water supply may be utilized to dislodge foreign matter from clogged drain pipes.

Another object of the invention is the provision of an attachment that may be readily and easily positioned by persons unfamiliar with mechanics, thus obviating the necessity of employing a plumber for opening a clogged drain pipe.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawings:

Figure 1 is an elevational view, partly in section, illustrating an attachment for directing service water pressure to the drain pipe of a sink.

Figure 2 is an elevational view illustrating a modified form of the invention.

Figure 3 is an elevational view partly in section, illustrating a portable attachment for flushing a drain pipe.

Referring to the drawings in detail, the reference character 5 designates a water pipe that is connected to the city water supply, the same being provided with a spigot 6 for controlling the passage of water through the pipe.

The reference character 7 designates a sink into which the water passing through the pipe 5 and spigot 6, discharges. The reference character 8 designates the usual drain pipe that includes the goose neck 9 and drain pipe 10.

The reference character 11 designates a coupling used between the pipe 8 and goose neck 9, the coupling being provided with a lateral extension 12 to which the pipe 13 is connected, the pipe 13 being provided with a valve 14. The pipe 13 is also provided with a valve 15 into which one end of the pipe 16 extends, the pipe 16 being in communication with the water supply pipe 5, through the coupling 17. A valve 18 controls the passage of water from the pipe 16.

Pivotally mounted within the coupling 11, is a valve 19 which is adapted to swing upwardly against the valve seat 20 under the pressure of water passing through the pipes 13 and 16 so that the water cannot back up into the sink when the drain pipe is being flushed out.

If desired, a flexible pipe such as indicated by the reference character 21 may be screwed onto the extension 12, the opposite end of the pipe 21 being screwed into the pipe 16.

In the form of the invention as shown by Figure 3 of the drawings a portable attachment indicated by the reference character 22 is provided, the attachment being in the form of a flexible pipe or hose having a threaded coupling 23 at its lower end, to be positioned on the threaded extension 12.

At the opposite end of the pipe or hose 22 is a coupling 24 that fits over the discharge end of the nozzle 6, the coupling being clamped in position by means of the split band 25 formed with openings to receive the bolt 26.

The reference character 27 designates a wire fastening device that passes around the enlargement 28 of the valve, as clearly shown by Figure 3 of the drawings. Thus it will be seen that by operating the spigot, water may be directed to the flexible pipe or hose 22 from where it will flow into the drain pipe.

In view of the foregoing description, it is thought that further detail description as to the operation of the device is unnecessary.

I claim:

The combination with a sink and the pipe for supplying water thereto, a downwardly inclined pipe connected with the water supply pipe and having connection with the drain pipe of the sink, spaced valves in the inclined pipe for controlling the passage of water therethrough, and a swinging valve

at the lower end of the inclined pipe, and adapted to swing to a position to direct water under pressure through the drain pipe and adapted to close one end of the inclined pipe under normal conditions.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

LOUIS S. DENISON.