Jan. 30, 1934. E. F. TROY 1,945,208

PIPE CLEANING DEVICE

Filed May 11, 1931

Fig. 1.

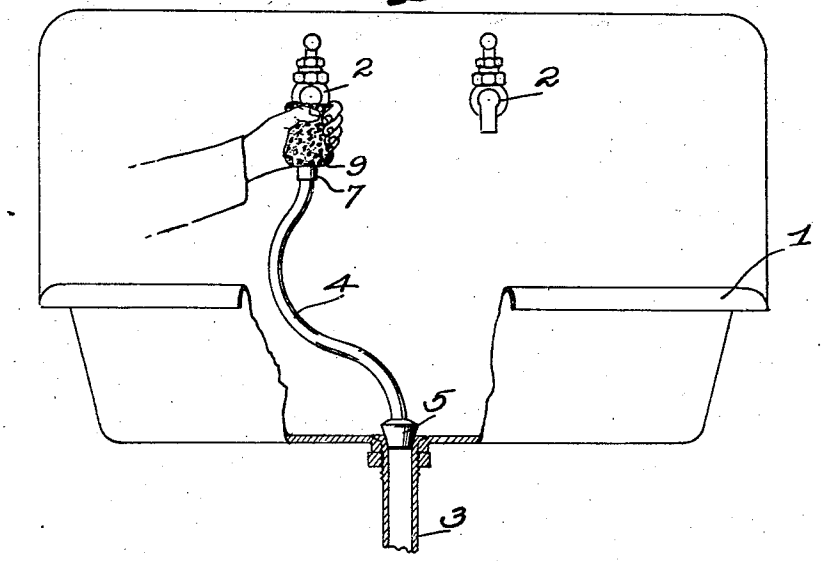
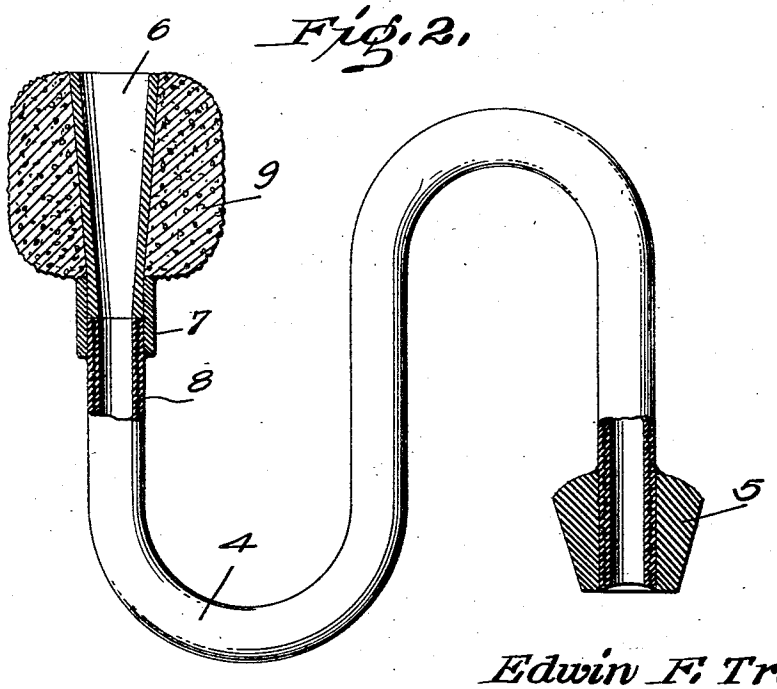


Fig. 2.



Inventor

Edwin F. Troy

By Milans & Milans

Attorneys

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PIPE CLEANING DEVICE

Edwin F. Troy, Jacksonville, Fla.

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1 Claim. (Cl. 285—90)

My invention relates to new and useful improvements in a pipe cleaning device and more particularly to a device for cleaning drain and waste pipes of sediment or refuse by flushing, one end of the device being adapted for engagement with a water faucet while the opposite end is inserted into the inlet end of the waste or drain pipe.

The principal object of the present invention resides in the provision of a device of the character described which is relatively simple and inexpensive in construction and which may be readily positioned for operation and removed after the pipe has been cleaned.

Another object of the invention resides in the provision of a device of the character described having a readily flexible mouth portion adapted to be engaged with the faucet and held in tight contact therewith by the hand of the user.

A further object of the invention resides in the provision of a device of the character described having a readily flexible mouth portion adapted to be engaged with the faucet, the mouth portion carrying a soft rubber pad adapted to be gripped by the user for tightly engaging and holding the mouth portion in engagement with the faucet.

Still another object of the invention consists in the provision of a pipe cleaning device in which a relatively stiff section of hose is provided having at one end a plug adapted to be positioned within the inlet opening of the pipe and at its opposite end being provided with a readily flexible mouth portion adapted to be engaged with a water faucet, a soft rubber pad encircling the readily flexible mouth portion and adapted to be engaged by the hand of the user for tightly engaging the mouth portion with the faucet.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction, and arrangement of parts, described in the following specification and illustrated in the accompanying drawing, and while I have illustrated and described the preferred embodiments of the invention, as they now appear to me, it will be understood that such changes may be made as will fall within the scope of the appended claim.

In the drawing:—

Fig. 1 is an elevation, partly in section, showing my cleaning device connected in position for use; and

Fig. 2 is a side elevation, partly in vertical section of the cleaning device per se.

In the drawing 1 indicates a sink having the usual water faucets 2 and drain or waste pipe 3. My improved form of cleaning device includes the relatively stiff, though flexible, rubber hose section 4 having the plug 5 of hard live rubber at one end and the readily flexible rubber mouth portion 6 at the opposite end. The plug 5 and relatively flexible mouth portion 6 are secured to their respective ends of the hose section 4 by vulcanizing and in order to provide a more secure connection between the end of the hose section 4 and end of the mouth portion 6 I provide the ring or band 7 of rubber which overlies the joint between the members, as shown more particularly in Fig. 2 of the drawing, and which will be vulcanized to the hose and mouth portion. To reinforce or strengthen the hose section 4 the same is preferably provided with the fabric insert 8.

Secured to the readily flexible mouth portion 6, by vulcanizing or in any other suitable manner, and surrounding the same, is a pad 9 of soft rubber such as sponge rubber. As shown more particularly in Fig. 2 of the drawing the mouth portion 6 is tapered with the largest diameter at the top so that the mouth portion may be easily engaged with the faucet and when pressed upwardly will have a tight fit.

From the above detailed description it is thought that the construction of my device will be clearly understood and when a drain or waste pipe becomes clogged with sediment or refuse the device will be positioned as shown more particularly in Fig. 1 of the drawing and when the water is turned on it will flow through the device and be discharged into the waste or drain pipe 3 to remove the sediment or refuse. The plug 5, of course, is tapered and may be tightly forced into the end of the pipe but preferably in use the same may be held by the user. It can be appreciated that when the water is discharged from the faucet that it will have a tendency to disengage the mouth portion 6 and to prevent this the mouth portion is readily flexible and adapted to be squeezed by the hand of the user into tight engagement with the faucet. To facilitate this engaging or squeezing I provide the pad 9 of soft rubber, preferably sponge rubber, and when the same is grasped by the user it will conform to the hand and permit the mouth portion 6 to be tight engaged with the faucet to prevent leak or accidental disengagement of the mouth portion from the faucet. At the same time this pad will prevent injury or discomfiture to the hand while holding the mouth portion in engagement.

Having fully described my invention what I claim as new and desire to secure by Letters Patent is:—

A pipe cleaning device including a tubular member having at one end a relatively thin readily flexible mouth portion adapted to be engaged with a faucet, and a relatively thick soft rubber pad carried by and surrounding the mouth portion, said soft rubber pad being of a size and shape to conform to and be received in the hand when gripped to flex the mouth portion to tightly engage the same with the faucet.

EDWIN F. TROY.