

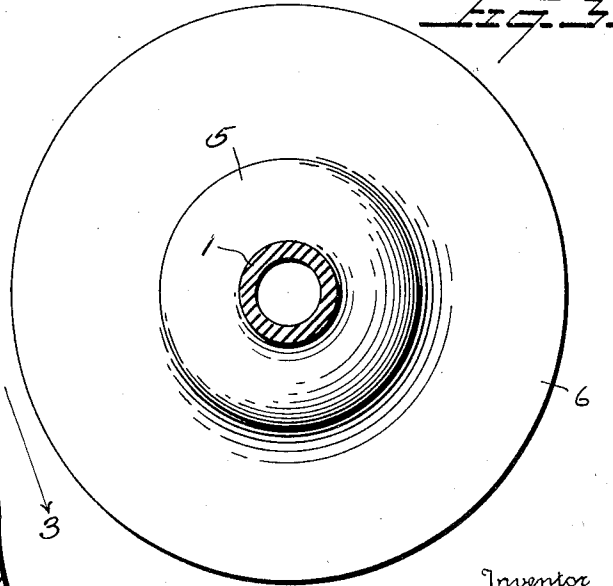
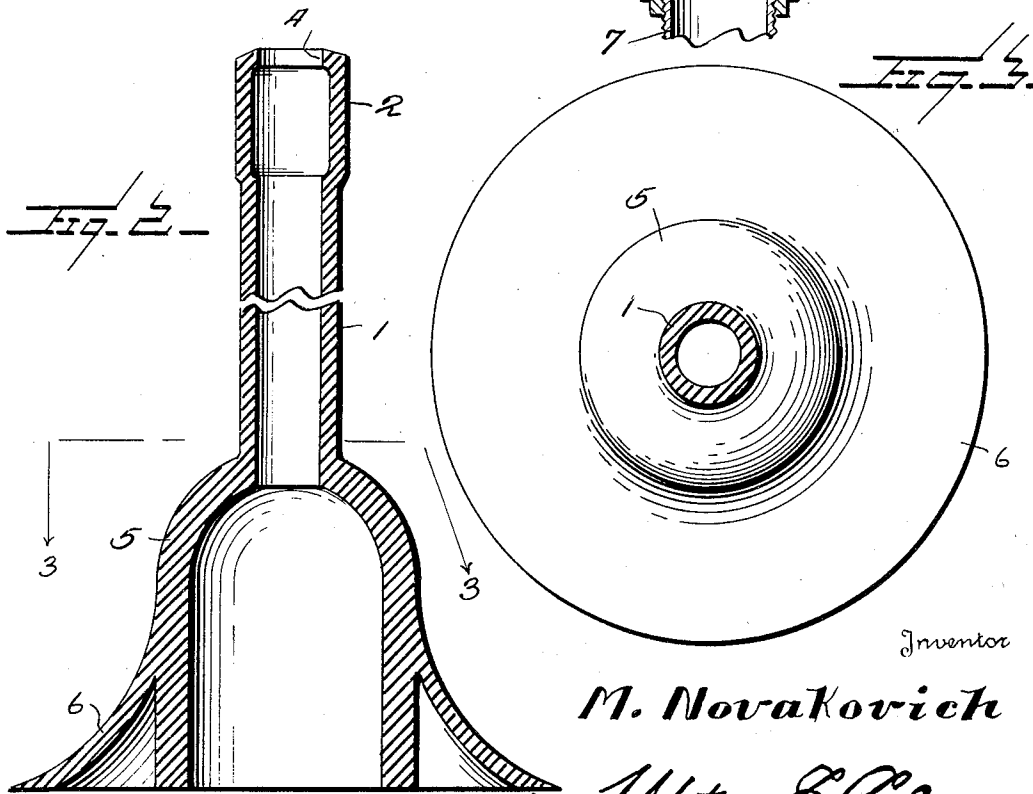
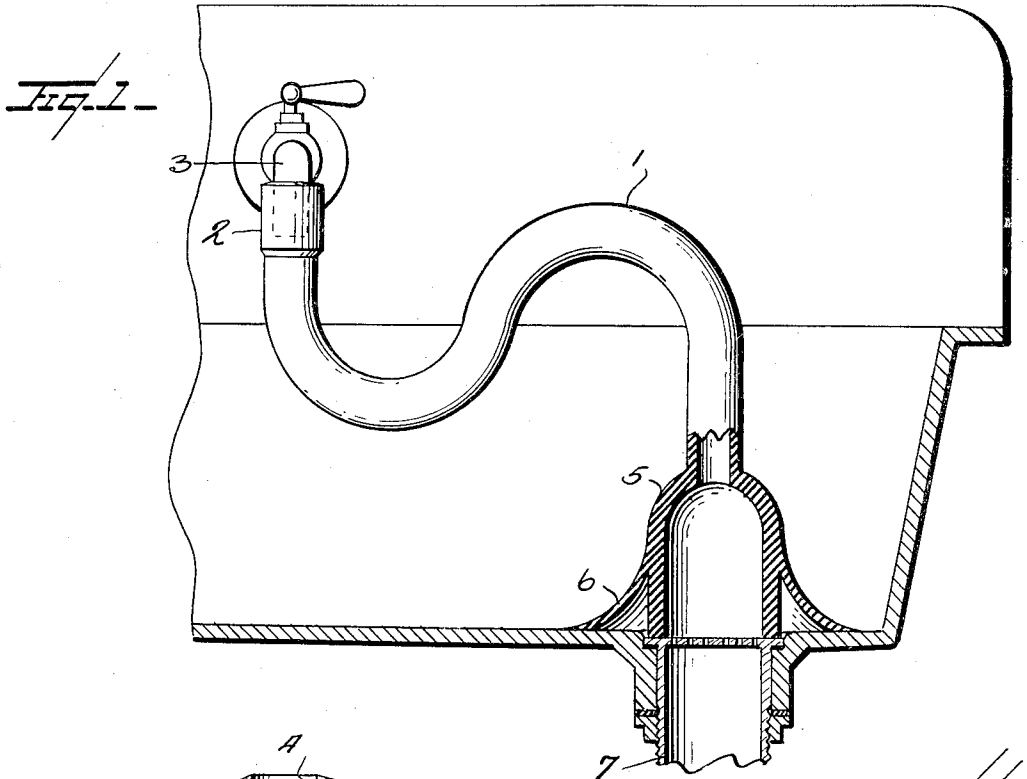
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DRAIN AND WASTE PIPE CLEANER

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DRAIN AND WASTE PIPE CLEANER

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1 Claim. (Cl. 4-256)

This invention relates to a drain and waste pipe cleaner, and it is an object of the invention to provide a device of this kind adapted to be suitably connected or coupled to a faucet and which is provided at one extremity with a plumber's pump, said pump being so constructed to readily permit its use with equal facility in connection with the drain opening of a sink, the drain opening for a wash bowl or lavatory, or with the outlet for a water closet bowl.

It is also an object of the invention to provide a device of this kind wherein the plumber's pump carries a surrounding apron or flap whereby the use of the pump is materially facilitated.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved drain and waste pipe cleaner whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:—

Figure 1 is a view partly in section and partly in elevation illustrating a drain and waste pipe cleaner constructed in accordance with an embodiment of my invention and in applied position with respect to the drain opening of a sink;

Figure 2 is a longitudinal sectional view taken through the device as herein disclosed;

Figure 3 is a view in top plan of the plumber's pump as herein embodied, the associated tube being in section.

As disclosed in the accompanying drawing, my improved cleaner comprises an elongated flexible tube 1 of rubber or a rubber compound and which has one end portion formed to provide a coupling member 2 adapted to be slipped upon the nozzle 3, said coupling at its outer end being defined by an inwardly directed flange 4 which is adapted to have close frictional contact with said nozzle 3 to assure desired maintenance of the coupling member 2 in position upon the nozzle.

The opposite end portion of the tube 1 has formed therewith a plumber's pump 5, the walls of which being of material thickness and, as disclosed in the accompanying drawing, of a thickness considerably greater than the thickness of the wall of the tube 1. The pump 5 is of a bell formation but is of pronounced depth with the

outer portion of its wall substantially straight in cross section.

This particular formation of the pump 5 is to allow the same to be employed with facility in connection with a wash basin or lavatory wherein the drain opening has associated therewith a controlling valve having movement inwardly of the basin. The depth of the pump 5, and more particularly the length of the straight portion of the wall of said pump, is such as to permit such valve to have its maximum movement within the applied pump 5 without hinderance or obstruction, it being understood, of course, that the interior diameter of the straight portion of the pump 5 is greater than the maximum diameter of such valve.

The straight portion of the wall of the pump 5 substantially midway thereof has formed therewith an annular continuous skirt or apron 6. This skirt or apron 6 extends entirely around the pump 5 and is disposed on a downward and outward flare with respect to the open end of the pump 5 proper. This skirt or apron 6 is of a thickness considerably less than the thickness of the wall of the pump 5 so that said skirt or apron will readily flex. Normally the outer or free edge of the skirt or apron 6 is substantially coplanar with the outer end of the pump 5 proper as particularly illustrated in Figure 2 of the accompanying drawing.

When the pump is used in connection with a drain opening for a sink or with a wash basin or lavatory, the skirt or apron 6 will have contact with the portion of such structure surrounding the drain opening thus assuring such contact of the device to render most effective the action of the water flowing through the tube 1 and through the pump 5 into the drain pipe 7 to be cleansed under the action of the force of the water.

The apron or skirt 6 is also of such major diameter to allow the pump 5 to be employed with full effectiveness to clean or flush out the outlet or drain leading from a closet bowl.

From the foregoing description it is thought to be obvious that a drain and waste pipe cleaner constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the

several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

5 A device of the class described comprising a bell-shaped member adapted to be positioned over the drain outlet of a plumbing fixture, said bell-shaped member being of pronounced depth with the outer portion of its wall substantially straight in longitudinal section, a tube leading from the

inner end of the bell-shaped member and in communication with the interior thereof, said tube being adapted for communication with a source of fluid under pressure, and an outwardly flared skirt surrounding the bell-shaped member and secured thereto at a point substantially midway of the straight portion of the bell-shaped member, said member and skirt being of deformable material.

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