

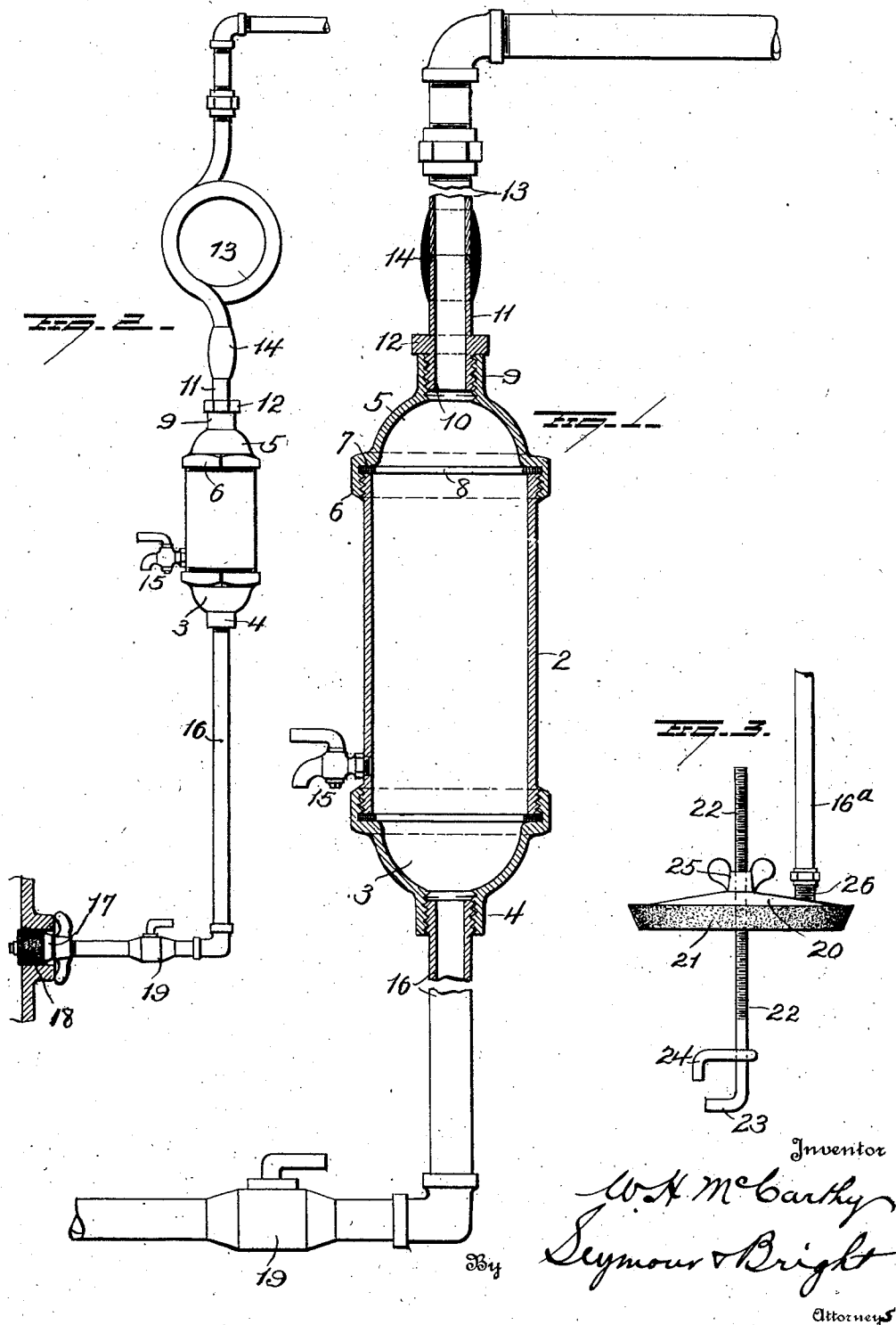
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PIPE CLEANING APPLIANCE

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PIPE-CLEANING APPLIANCE.

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This invention relates to improvements in pipe cleaning appliances and more particularly to means for supplying chemical material to pipes to be cleaned,—the object of the invention being to provide simple and efficient means to facilitate the supplying of a chemical pipe cleaning material to soil, sewer and drain or other pipes comprised in plumbing structure.

With this and other objects in view, the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claim.

In the accompanying drawings,—

Figure 1 is a view partly in section illustrating my improvements.

Figure 2 is a view illustrating an application of my improvements, and

Figure 3 is a view of an appurtenance.

My improvements include a container for chemical pipe cleaning material and this container comprises a cylindrical or tubular body portion 2, a bottom head 3 secured thereto and having an internally threaded projection 4 constituting a nipple for the reception of a pipe connection, and an upper head 5 having a peripheral flange 6 to encircle the upper end of the tubular body 2 and is removably connected with the latter, preferably by means of a threaded connection. The flanged portion of the head 5 is so formed as to provide an internal shoulder 7 for the accommodation of a gasket 8 (preferably of leather) which is disposed between said shoulder and the upper edge portion of the cylindrical body portion. The head 5 is provided with an annular projection 9 threaded interiorly for the reception of the threaded portion 10 of a nipple 11, said nipple having an enlargement 12 forming a shoulder which bears against the free edge of the annular enlargement 9 and is preferably made rigid with the latter by means of solder or otherwise. Connected with the nipple 11 is a flexible (preferably lead) pipe 13 and the connection of this pipe with the nipple will preferably be formed by means of a wiped joint, such as indicated at 14. The container is provided near its lower portion with a drain-cock 15.

When my improvements are to be applied for use in cleaning a soil pipe, a pipe connection 16 is made to communicate with the nipple 4 at the bottom of the container

and is passed through a plug 17 having a rubber gasket 18 thereon and, after having removed the solid plug usually employed in the clean out hole of a soil pipe, the plug 17 will be inserted in said hole.

For the purpose of filling the container with chemical cleaning material, the upper head 5 of said container will be removed. After the container shall have been filled and the head 5 replaced, the flexible pipe 13 will be connected with a suitable source of water supply. As a matter of fact when the appliances are installed in the cellar of the building, the flexible pipe may have permanent connection with a water supply pipe and any suitable valve means provided to control the passage of water through said flexible pipe to the container. When the appliances are thus installed, I prefer to employ a valve 19 in the pipe connection 16.

It will be understood that when water is permitted to flow to the upper end of the container, the chemical material in the latter will be caused to pass to the pipe to be cleaned.

When my improvements are to be employed for supplying chemical cleaning material to a drain pipe, such as the drain pipe from a basin or sink, I may employ a metal plate or disk 20 to be disposed over the outlet opening of the basin or sink and provided with a rubber gasket 21 to form a tight connection with the bottom of the basin or sink. The cover device 20—21 will preferably be clamped in place and to effect such clamping, a threaded rod 22 passes through said disk or cover member and is provided at its lower end with a lateral arm 23 to engage under the spider usually employed in the drain outlets of sinks and basins and an L-shaped arm 24 is loosely mounted on the rod 22 so that it may engage between members of said spider and prevent the rod from turning. A thumb nut 25 is screwed on the rod 22 and engages the upper face of the disk or cover 20. The disk or cover is provided with an upwardly projecting externally threaded nipple 26 to be connected by a pipe 16* with the internally threaded nipple 4 depending from the bottom head 3 of the container. The flexible pipe 13 or its equivalent may be suitably connected with the spigot for the basin or sink and the supply of water to the container controlled by the valve of said spigot.

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

5 A device for cleaning waste-pipes comprising a cylindrical upright container adapted to receive a cleaning agent through its upper end, a head removably engaged over the upper end of the container, a flexible metal pipe having one end permanently
10 secured in said head and communicating through the head with the interior of the container, the opposite end of said pipe being provided with means for connecting it with a water supply whereby to supply water
15 under pressure to the container and the cleaning agent therein, a head secured over

the lower end of the container, both heads having gasket-receiving shoulders presented to the respective ends of the casing and extending axially from the shoulders and the 20 containers, the diameters of the heads gradually decreasing from the shoulders in a direction away from the ends of the container, a pipe secured to and leading from the lower head, said pipe being closed to all 25 flow except through the container, and means for fitting the said pipe fluid-tight to the pipe to be cleaned.

In testimony whereof, I have signed this specification.

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