N. L. McKAY.

SANITARY DRINKING TUBE.

APPLICATION FILED MAY 5, 1915. RENEWED APR. 25, 1916.

1,204,171. Patented Nov. 7. 1916.

Fig. 1.

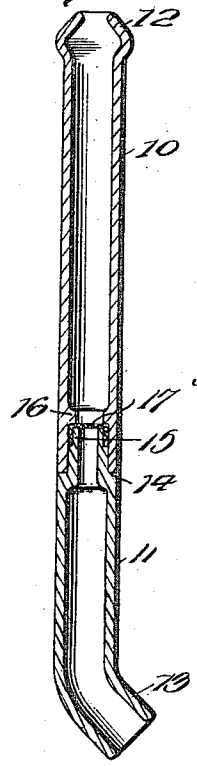


Fig. 2.

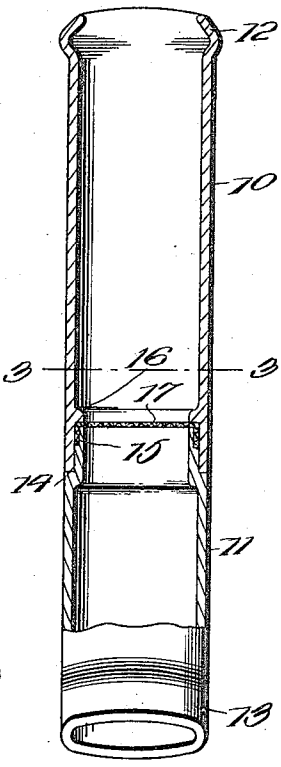


Fig. 4.

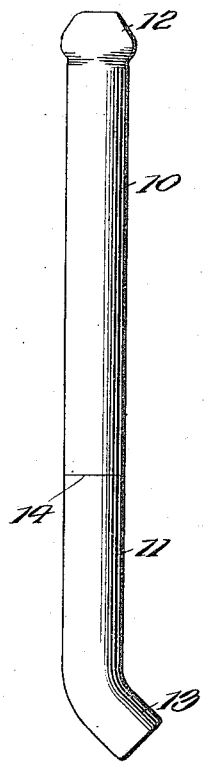


Fig. 5.

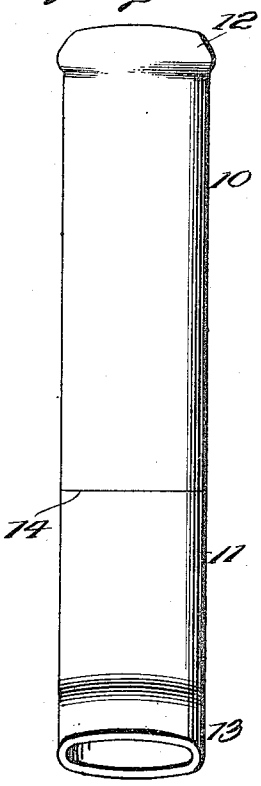


Fig. 3.

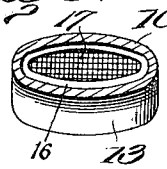
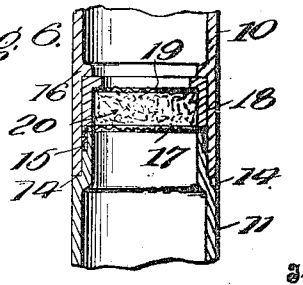


Fig. 6.



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SANITARY DRINKING-TUBE.

1,204,171. Specification of Letters Patent. Patented Nov. 7, 1916.

Application filed May 5, 1915, Serial No. 26,015. Renewed April 25, 1916. Serial No. 93,537.

To all whom it may concern:

Be it known that I, NELSON L. McKAY, a citizen of the United States, residing at Walden, in the county of Orange and State of New York, have invented certain new and useful Improvements in Sanitary Drinking-Tubes, of which the following is a specification.

This invention relates to improvements in individual drinking tubes, and has for one of its objects to provide a simply constructed device, whereby a person can drink from a receptacle of any size or form, or from water flowing through a faucet or from a stream, and at the same time have the water filtered or rendered free from contamination.

Another object of the invention is to provide a simply constructed device of this character, wherein a filtering or disinfecting member may be supported intermediate the ends of the device and readily removable for renewal or cleansing.

With these and other objects in view, the invention consists in certain novel features of construction as hereinafter shown and described, and then specifically pointed out in the claims; and in the drawings illustrative of the preferred embodiment of the invention. Figure 1 is a longitudinal elevation in section through the narrow axis. Fig. 2 is a longitudinal elevation in section through the wider axis. Fig. 3 is a transverse section on the line 3—3 of Fig. 2. Fig. 4 is a side elevation viewed from one of narrow faces. Fig. 5 is a side elevation viewed from one of wider faces. Fig. 6 is a sectional detail illustrating a slight modification in the construction.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

The improved device comprises two coacting tubular members 10—11 preferably of flat elliptical form transversely, the outer end of the section 10 being preferably slightly enlarged and then converged, as represented at 12, to form a mouth piece and the section 11 being likewise slightly converged and curved laterally, as represented at 13. The member 11 is reduced at one end and provided with a stop shoulder 14 to receive the inner end of the section 10. The reduced portion of the member 11 is formed with an annular seat 15 at its outer end and the member 10 is provided with an inwardly directed rib 16 spaced from its outer end. The reduced portion 15 provides an annular support for a cup-shaped diaphragm of screen material 17, the diaphragm being turned in or flanged at its edges to engage by the flange between the adjacent inner wall of the body 10 and the reduced portion 15 of the member 11. By this means, the member 17 is firmly supported in position, and all danger of displacement obviated. By this simple means, an efficient and complete implement is produced whereby a person can drink from a glass, cup, or other vessel without contamination, the water being strained through the member 17 before it passes to the mouth of the user. By curving the lower or intake end of the member 11 laterally, as shown in Figs. 1 and 4, the implement may be readily employed in running water, such as the flow through a faucet or the like.

In Fig. 6 a slightly modified form of the support for the cleansing element is shown, consisting in a cup-like member 18 open at the lower side and provided with a diaphragm of screen material, represented at 19 at the upper side, the open side of the support bearing upon the screen 17. The member 18—19 thus provides means for supporting a body of disinfecting material, indicated at 20, within the receiver 18 and between the screen members 17—19. This form of the device may be employed if required.

Having thus described the invention, what is claimed as new is:

1. A device of the class described comprising coacting tubular members telescopically united at their confronting ends, one of said members having an annular seat at its inner end and the other member having an inwardly directed stop rib, and a foraminous member having a flange engaging in the seat and held in position by the stop rib.

2. A device of the class described comprising coacting tubular members, one of said members reduced at one end to telescopically engage the other member and with an annular seat in the reduced portion and the other member having an inwardly directed stop rib, and a filter member having a flange engaging in said seat and held in position by the stop rib.

3. A device of the class described comprising coacting tubular members telescopically

united at their confronting ends, one of said members curving laterally and converging at one end and having an annular seat at its inner end, and the other member having an inwardly directed stop rib, and a foraminous member having a flange engaging in said seat and held in position by the stop rib.

4. A device of the class described comprising coacting tubular members, one of said members reduced at one end to telescopically engage the other member and with an annular seat in the reduced portion and the other member having an inwardly directed stop rib, a foraminous member having a flange engaging said seat, and a receptacle for a disinfectant having a foraminous wall and bearing against said flanged foraminous member and engaged by said stop rib.

In testimony whereof I affix my signature in presence of two witnesses.

NELSON L. McKAY.

Witnesses:
MORDEN H. ALDRIDGE,
ERNEST TAYLOR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."