Aug. 18, 1931. C. F. FITTER 1,819,157

FOUNTAIN BRUSH

Filed Oct. 26, 1926

Fig. 1.

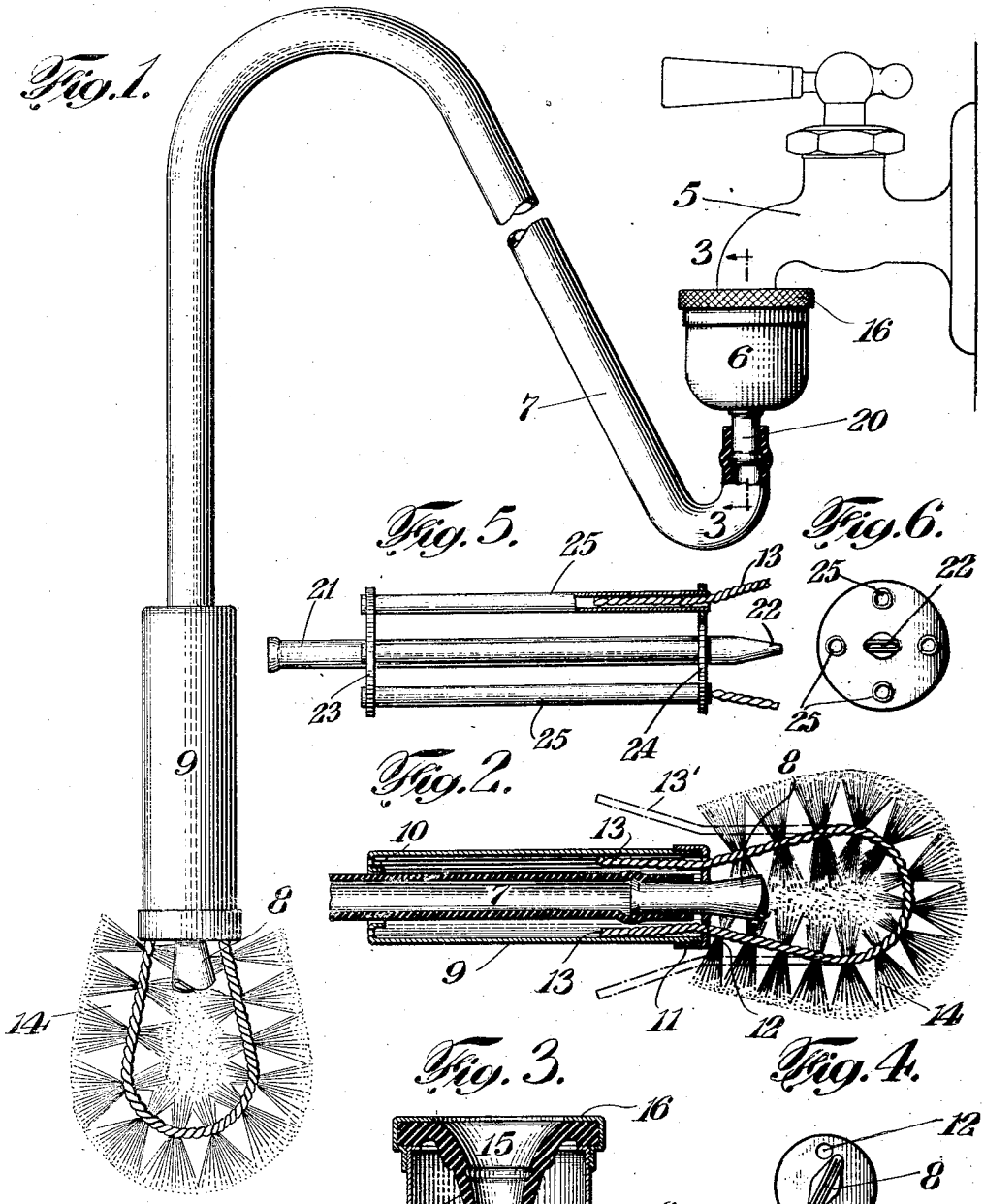


Fig. 5.

Fig. 6.

Fig. 2.

Fig. 3.

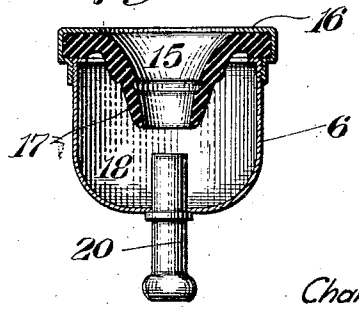


Fig. 4.

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FOUNTAIN BRUSH

Application filed October 26, 1926. Serial No. 144,229.

The present invention relates to fountain brushes. The invention has been developed in connection with the production of a dish washing device for household use and for convenience such an embodiment will be described for the purpose of illustrating the principles of the invention.

Referring to the drawings in which is shown a selected embodiment of the invention—

Figure 1 is a view of an apparatus for use in washing dishes constructed in accordance with the invention, the device being shown as attached to a water faucet,

Figure 2 is a detail sectional view showing the brush and handle,

Figure 3 is a detail sectional view of the soap container and the diaphragm adapted for attachment to faucets of various sizes,

Figure 4 is an end view of the nozzle and handle thereof with the brush removed, and

Figures 5 and 6 are respectively side and end views of a nozzle with a handle of slightly different form.

The apparatus is shown in the drawings as attached to a suitable faucet 5 to which the soap cup 6 of the apparatus is fitted. To the soap cup is attached a suitable rubber tube or hose 7 which forms the connection to the nozzle 8. The nozzle is provided with a handle 9 which consists of a sleeve substantially larger than the hose to provide an air space between said sleeve and the hose. The sleeve may conveniently be made of metal, the rear end being formed to provide an inwardly turned flange 10 which engages the hose to maintain it in substantially central position. The sleeve is threaded at its forward end to receive a threaded cup 11 surrounding the nozzle and secured thereto in any suitable way. The cup 11 is provided with two apertures 12 on opposite sides of the nozzle to receive the projecting shanks 13 of the brush 14 thus to hold the brush in position in front of the nozzle 8. The end of the nozzle is preferably flattened to provide a fan shaped stream of water as indicated in Figures 2 and 4, the plane of the nozzle opening preferably lying at a slight angle to the plane of the brush when it is secured in position in the cup 11 forming a part of the handle.

The soap cup 6 is provided with a flexible diaphragm 15 secured in place in the upper end of the soap cup by means of a flanged and threaded retaining ring 16 by which it is clamped against the inturned edge of the cup. The diaphragm 15 is made of funnel shape with a central aperture to receive a faucet. The walls of the diaphragm are made of the particular form shown in order that the device may be readily attached to faucets of different sizes. The upper portion is relatively thick and stiff with an annular groove 17 to provide an edge to grip a faucet of larger size and the lower portion is relatively flexible to engage smaller faucets. The device shown will effectively fit faucets of at least three different standard sizes. The outlet tube 20 forming a part of the soap cup projects a substantial distance into the interior of the soap cup to leave the annular soap receiving space therearound. This tube is preferably of smaller diameter than the end of the faucet of the smallest size with which the device is intended to be used. The outer end of the soap cup tube 20 and the lower end of the nozzle 8 are suitably formed to receive and retain the rubber tube or hose 7.

The brush is shown as formed of wires twisted together and holding bristles therebetween, the ends of the wire extending rearwardly and tending normally to spring apart as indicated at 13'.

In Figures 5 and 6 is shown another form of nozzle and handle so constructed as to hold the brush somewhat more rigidly. This nozzle and handle comprises a central tube 21 formed with a nozzle 22, spaced discs 23, 24 surround said tube and may be rigidly fixed thereto, said discs forming support for a number of tubes 25 held thereby in spaced relation and spaced from the central nozzle tube 21. In this handle the shanks 13 of the brush 14 are held more rigidly against lateral movement than in the form of handle shown in Figure 2 since the brush shanks substantially fit the tubes 25.

In use a suitable quantity of soap chips is introduced into the soap cup 6 to provide a

sufficient quantity of soap for the dishes to be washed. The water, preferably as hot as possible, is then turned on and the stream of soapy water directed from the nozzle 8 over the dishes which may be held in a suitable rack, the brush 14 ordinarily not being used in this operation. By the time the dishes are sufficiently washed with the soapy water, the soap will have been exhausted in the soap cup 6 and clear water will be provided for rinsing.

For the washing of pots and pans the brush 14 suitably designed for this purpose is used.

The foregoing description of a particular embodiment is illustrative merely and is not intended as defining the limits of the invention.

I claim—

1. A fountain brush apparatus comprising a tubular nozzle having the outlet opening at one end and hose connected thereto at the other end, a handle secured to said nozzle and surrounding the same but spaced therefrom, said handle having apertures on opposite sides of said nozzle and a brush having projections arranged to fit into said apertures and hold the brush in operative position in front of said nozzle.

2. A fountain brush apparatus comprising a rigid tubular nozzle adapted to have hose connected thereto, a handle secured to said nozzle and comprising a plurality of rods surrounding the nozzle but spaced therefrom, said handle having means for retaining a brush in line therewith.

3. A fountain brush apparatus comprising a tubular nozzle adapted to have hose connected thereto, said nozzle comprising a central rigid tube with discs thereon and tubular members connecting said discs to form a handle, said tubular members being open at end to receive the shanks of a brush substantially as described.

4. A fountain brush device comprising in combination, a rigid tube, spaced discs secured to said tube, a handle comprising a plurality of rods secured to said discs and spaced from said tube, the rods being sufficient in number to form an enclosure about said tube, and a brush secured in line with said tube.

In testimony whereof, I have signed my name to this specification this 19th day of October, 1926.

CHARLES F. FITTER.