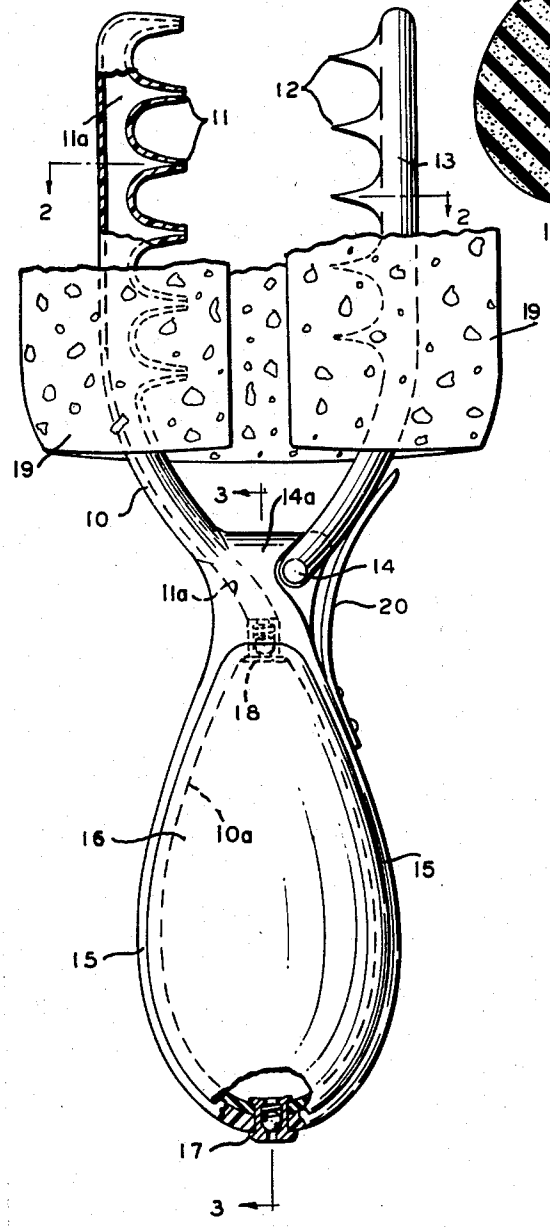
May 17, 1960 S. E. COLEMAN 2,936,471

HOUSEHOLD HAND MOP

Filed April 19, 1957

FIG. 1



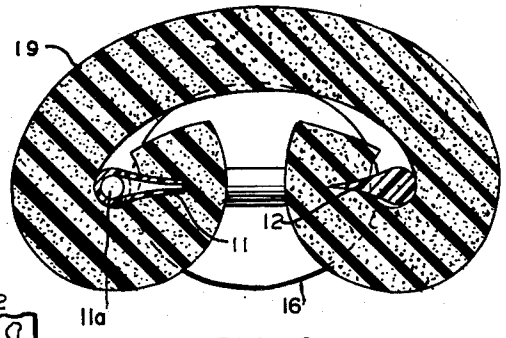


FIG. 2

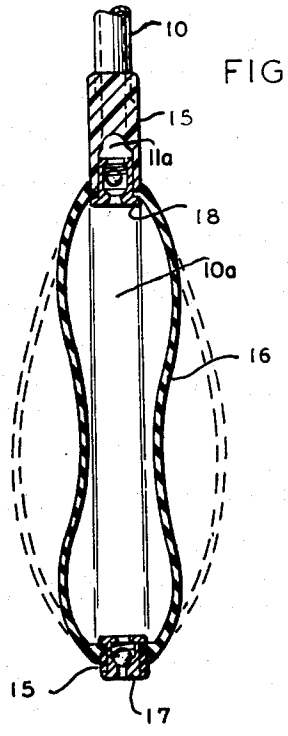


FIG. 3

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HOUSEHOLD HAND MOP

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Application April 19, 1957, Serial No. 653,888

3 Claims. (Cl. 15—136)

My present invention comprises a household hand mop, which may be used for various purposes such as scrubbing toilet bowls or hard to get at places.

The principal object of the invention is to produce an improved fountain type household hand mop which is characterized by a novel handle and means for securing a fluid supply member thereto so that the latter constitutes, in service, a functionally integral part of said handle.

Another object is to produce a household hand mop of the class indicated which includes novel means for separably securing a fluid-receiving sponge or the like in operative position.

Other objects and advantages will appear as the description of the illustrated embodiment proceeds, it being understood that the latter may be variously modified within the spirit and scope of the subject matter claimed hereinafter.

In the drawing accompanying the specifications,

Fig. 1 is a partial side elevation of the device, portions of which are broken off and other portions being shown in cross-sections to more clearly illustrate the invention;

Fig. 2 is a cross-section taken on line 2—2 of Fig. 1;

Fig. 3 is another cross-section taken on line 3—3 of Fig. 1, the dotted lines indicating the expanded position of the fluid supply element of the handle portion.

The device comprises a left-hand jaw indicated at **10**, and the opposed right-hand jaw **13**.

The right-hand jaw **13** is pivoted, as at **14**, to the lateral boss-like inner end enlargement **14***a* of the left-hand jaw **10**. Enlargement **14***a* may also be considered as the inner end of the rigid loop-form handle **15**.

This right-hand portion **13** may be swung to the right to separate the jaws for the purpose of mounting a sponge member **19** therebetween, as illustrated in Fig. 2.

The right-hand jaw **13**, being influenced by a flat spring **20**, will maintain the jaws **10** and **13**, in the closed position shown in Figs. 1 and 2. It is to be noted that the jaws **10**, **13** have inwardly extending spur-like protuberances **11**, **12**, respectively, for engagement with sponge **19** as indicated in Figs. 1 and 2.

The bulb **16**, is held in place by engagement of the rigid loop-form handle portion **15** in surface grooves **10***a*, formed in the sides of bulb member **16**.

Bulb **16** is fitted with check valves **17** and **18** at its bottom and top, respectively (see Fig. 1), the check valve **17** being an inlet valve and check valve **18** an outlet valve, said valves **17** and **18** operating to pass liquid in one direction. The outlet valve **18** seats, as shown, in the inlet end of a passage **11***a* which extends through boss-like enlargement **14***a*, and into the hollow jaw **10**.

When the bulb **16** is squeezed, as shown in full lines in Fig. 3 the valve **18** is opened while valve **17** remains closed and liquid in the bulb is forced into the channel **11***a*, but when the bulb **16** is released valve **18** is closed and a fresh supply of liquid is drawn thereinto through

the valve **17** by suction filling the bulb **16** with fresh liquid.

The compression of the bulb **16** forces liquid out through the channel **11***a* in member **10**, and out through the communicating hollow spur-like protuberances **11** into the rubber sponge **19**, the spur-like protuberances **12** of jaw **13** being solid as shown in Fig. 2.

This procedure of dipping the bulb **16** into a dish or container holding the cleaning fluid and compressing the bulb **16** to draw such liquid into the bulb **16** and force it into the sponge **19** is repeated as often as the sponge **19** requires fresh liquid.

When a sponge **19** is to be secured to jaws **10**, **13**, the spurs **11** of jaw **10** are first embedded therein inwardly of one end thereof, as will be understood from Figs. 1 and 2. Then while jaw **13** is held outwardly against the action of spring **20** the sponge **19** is passed about the outer portions of both jaws **10**, **13** and engaged with the spurs **12** of jaw **13**. Now jaw **13** is released to draw opposed end portions of the sponge closer together to the operative position shown in Figs. 1 and 2. When the sponge **19** is to be removed, this operation is facilitated by moving jaw **13** outwardly to provide increased clearance between the jaws so as to facilitate disengagement of the sponge from the spurs **12** of jaw **13**.

Having thus described my invention what I claim as new is:

1. In an improved household hand mop or the like, an elongated loop-form handle, a pair of stiff and spacedly opposed jaw members providing inner ends carried by one end of said handle, opposed series of laterally extending sponge or other absorbent member-retaining protuberances carried by the respective jaw members, one of said jaw members being a functionally integral extension of said handle end, means pivoting the inner end of the second jaw member to said handle end for movement toward and away from the first jaw member, spring means carried by said handle and operatively engaging the second jaw member to normally urge it toward the first jaw member, said first jaw member being hollow and its protuberances having outlet apertures therein, the first mentioned jaw member having a fluid inlet opening thereinto through said end of the loop-form handle, a compressible fluid supply member removably insertable in said loop-form handle and having a valve controlled discharge outlet seated in the fluid inlet of said first mentioned jaw member, and each side of said fluid supply member having a surface groove extending rearwardly from said supply member outlet and seating opposed portions of said loop-form handle.

2. The structure of claim 1, and said second mentioned jaw member actuating spring means comprising a leaf spring element secured at its rear end to the exterior of said handle and with its forward end exteriorly overlying said second mentioned jaw member.

3. The structure of claim 1, and a boss-like enlargement at the said end of said loop-form handle and carrying said first mentioned jaw member and leaf spring element, and said fluid inlet to said first mentioned jaw member extending through said boss-like enlargement.

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