

Sept. 12, 1950

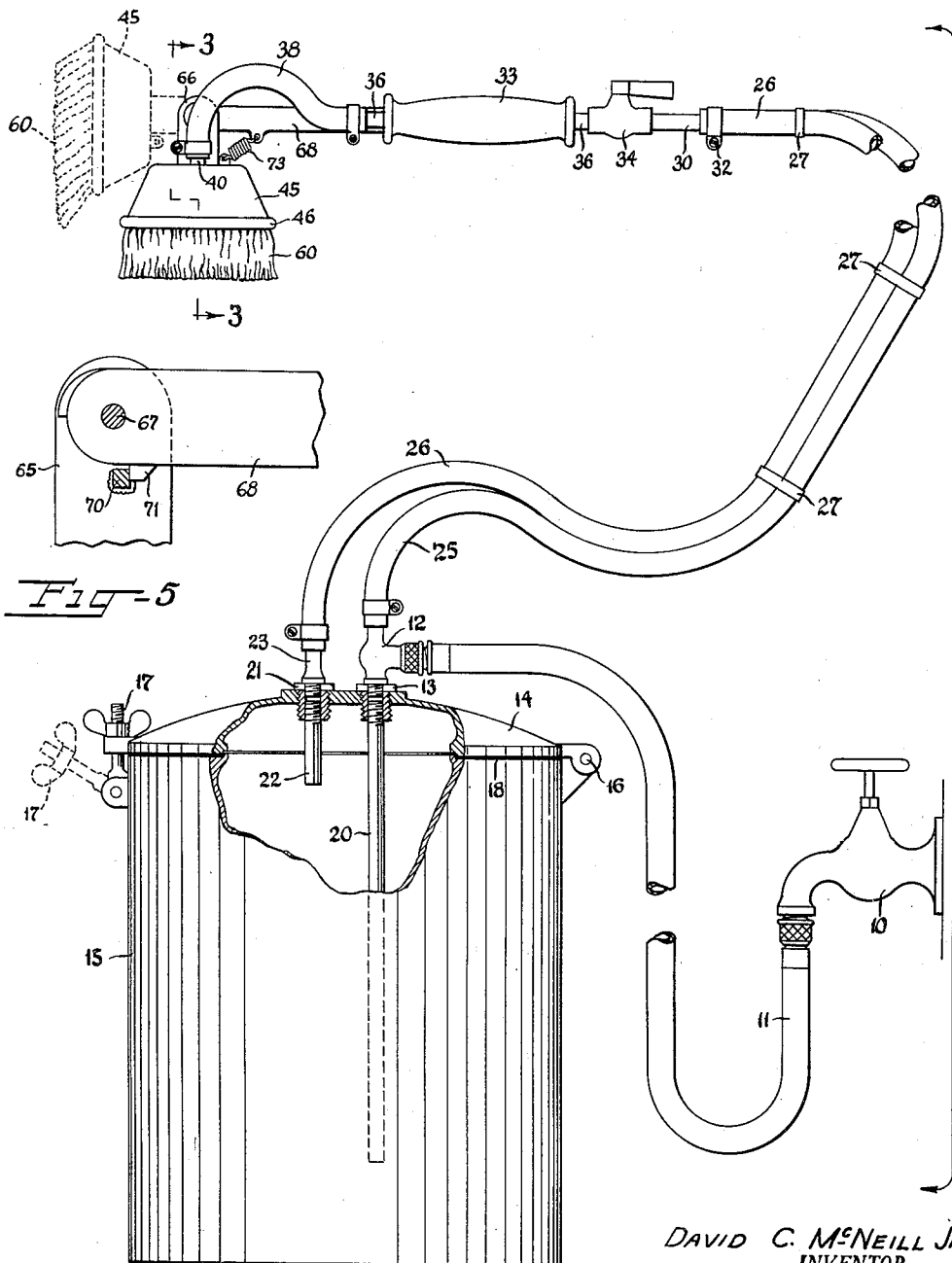
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2,521,929

FOUNTAIN BRUSH

Filed Nov. 22, 1946

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

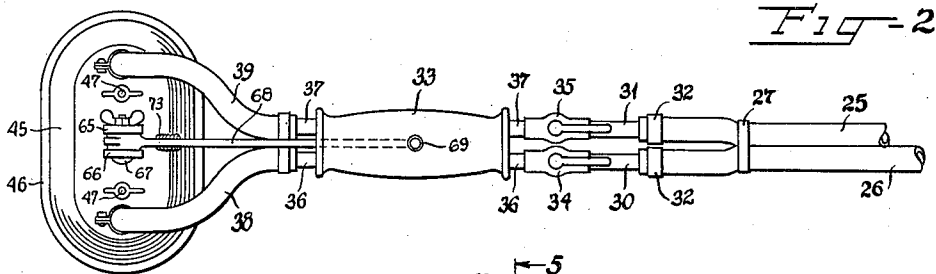


Fig-2

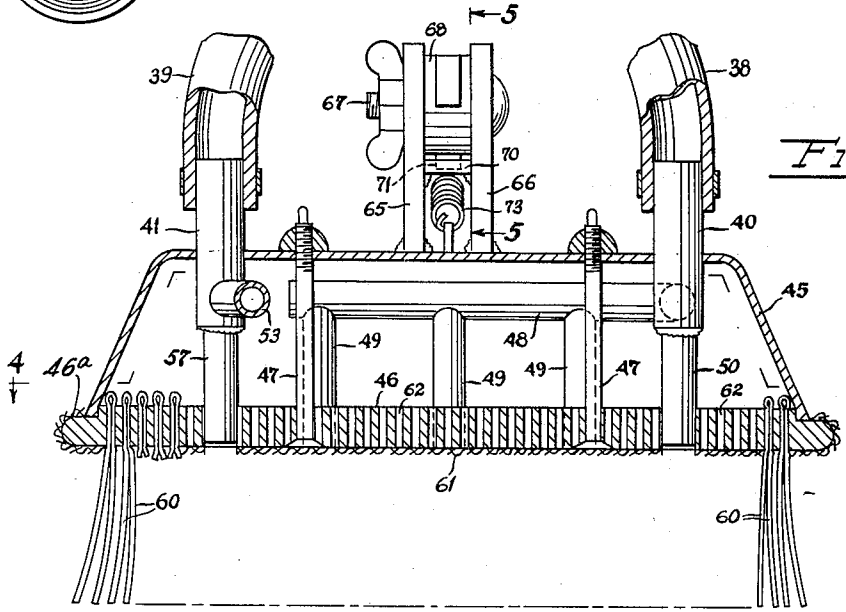


Fig-3

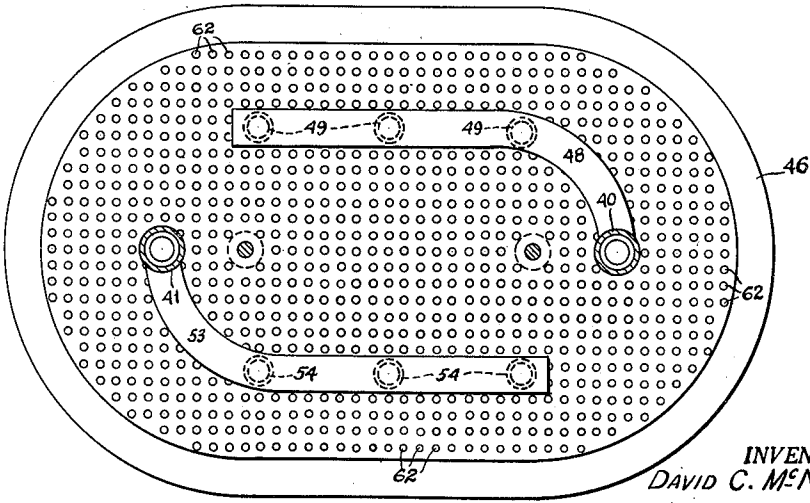


Fig-4

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2,521,929

FOUNTAIN BRUSH

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Application November 22, 1946, Serial No. 711,729

3 Claims. (Cl. 15-129)

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This invention relates to cleaning or scrubbing apparatus, and more especially to means for supplying both water and a detergent, such as a soap solution, to a mop or brush at the same time while the mop or brush is used for cleaning or scrubbing purposes.

It is an object of this invention to provide means for applying both water and a detergent under pressure to a mop or brush by employing a container for the detergent, such as liquid soap, and having means for connecting the container in which the detergent is stored to the source of water pressure and having leading from the point of connection a hose or pipe which leads to the mop or brush, and having a detergent line leading from the container to the mop or brush and the mop or brush having a plurality of yarn, or bristles, or other scrubbing devices thereon; with means for conveying to the mop or brush at a plurality of points the detergent, and also means for conveying water to the mop or brush in any desired quantity, together with means for regulating not only the rate of flow of the water but also the rate of flow of the detergent to the mop or brush.

Some of the objects of the invention having been stated, other objects will appear as the description proceeds, when taken in connection with the accompanying drawings, in which:

Figure 1 is an elevation with parts broken away, showing the invention;

Figure 2 is a top plan view of the upper portion of Figure 1;

Figure 3 is a vertical sectional view taken along the line 3-3 in Figure 1;

Figure 4 is a sectional view taken along the line 4-4 in Figure 3;

Figure 5 is a vertical sectional view taken along the line 5-5 in Figure 3.

Referring more specifically to the drawings, the numeral 10 indicates the conventional hose bib of a city or residence water system, having connected thereto a hose 11 which has its other end connected to a T 12, which T has a threaded portion 13 threaded into the lid 14 of a container 15 pivotally mounted as at 16, and having a suitable fastener 17 at its other side for securing the lid in closed position, said lid usually having a conventional gasket 18 disposed between the lid and the top of the container 15. Threadably secured in the portion 13 is the downwardly extending pipe 20 which extends to near the bottom of the container 15. The lid 14 of the container 15 also has another bushing 21 threadably secured therein having a portion 23 connected to the upper end

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thereof and having a nipple 22 connected to the lower end.

To the T 12 and to the portion 23 are connected hose 25 and 26, which are preferably secured together in a conventional manner, such as by bands 27, and these two hose 25 and 26 are connected to the pair of pipes 30 and 31 by any suitable means such as hose clamps 32. These pipes 30 and 31 have suitable manually controlled valves 34 and 35 therein, which are connected to pipes 36 and 37, which penetrate a handle member 33. The pipes 36 and 37 have connected thereto suitable flexible hose 38 and 39, which are connected to nipples 40 and 41, which project downwardly through a cap member 45 over whose open end is secured a plate 46 by means of bolts 47, penetrating the plate 46 and the top of member 45 to secure the two portions together.

The pipe 40 has a branch 48 with a plurality of downwardly projecting portions 49, which penetrate the plate member 46 as will be observed by the dotted lines in Figure 3. There is also extending from pipe 40 a nipple 50, which also penetrates plate 46.

The pipe 41 likewise projects downwardly through the member 45 and has a branch pipe 53 thereon, to which is secured a plurality of sub-branches 54, which also penetrate the plate 46 similar to pipe 50 in Figure 3. The pipe 41 also has a branch 57 which penetrates the plate 46. Plate 46 has a groove 46a therearound on its upper side into which the rim of cap 45 fits to provide more stability to the mop or brush unit. Plate 46 has a plurality of bores or perforations 62 therethrough, through which a plurality of bristles, yarn or tufts 60 are passed in conventional manner to make a mop or brush for cleaning or scrubbing purposes. The plate 46 is preferably covered with a piece of the fabric 61 which also has perforations therein coinciding with the perforations 62 in the member 46.

The upper portion of the cap member 45 has a pair of upwardly projecting portions 65 and 66, which are pivotally mounted at their upper ends by means of a bolt 67 to a bar 68 which has its other end secured in the handle 33 by any suitable means, such as a screw or bolt 69.

The members 65 and 66 are secured together by means of a bridge 70, and the bar 68 has a projection 71 thereon, which limits the amount of counter clockwise movement of the members 65 and 66 and the mop or brush carried thereby as viewed in Figures 1 and 5. A tension spring 73 has one end secured to the cap member 45 and its other end secured to the bar 68, which normally

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holds the mop or brush in the position shown in Figure 1. It is thus seen that water from the bib 10 may be caused to flow through the hose 11 to the T 12 from which it will flow through the hose 25 and associated parts to the pipe 41 and its branch pipes 53 and 57. Water will also flow from the T 12 through the downwardly extending pipe 20 into the container 15 to force a suitable detergent disposed within the container 15 upwardly through the nipple 22 and the hose 26 with its associated parts to cause the detergent to be emitted from the pipe 40 and its branch pipes 49 and 50.

If desired, hose 25 may be connected directly to a source of water and hose 26 may be connected to any suitable source of detergent under pressure.

In the drawings and specification, there has been set forth a preferred embodiment of the invention, and although specific terms are employed, they are used in a generic and descriptive sense only, and not for purposes of limitation, the scope of the invention being defined in the claims.

I claim:

1. Scrubbing apparatus comprising a handle member having a water supply pipe extending therefrom, a detergent supply pipe leading from the handle member, a manually operated valve in each of said pipes for controlling the amount of liquid passing therethrough, an arm projecting from the handle member and having a scrubbing member pivotally secured thereto, means secured to the scrubbing member and to the arm for holding the scrubbing member at approximately right angles to the arm at all times, said scrubbing member comprising a perforated plate member having a plurality of tufts therein, a hose leading from the end of one of the pipes to the scrubbing member, a plurality of branch pipes to which said hose is connected, and said branch pipes extending downwardly, said branch pipes extending through said plate member for delivering liquids through the plate member, the other of said pipes having a second hose connected thereto and said second hose being connected to a pipe disposed on the scrubbing member, and said pipe disposed on the scrubbing member having a plurality of branch pipes penetrating said plate for delivering a detergent through said plate to the tufts.

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2. Cleaning apparatus comprising a scrubbing member having a perforated plate in which a plurality of tufts are mounted for cleaning and scrubbing purposes, two sets of pipes, each having a plurality of branches extending through said plate, one pipe of one of said sets being adapted to be connected to a source of detergent supply under pressure, and one pipe of the other of said sets being adapted to be connected to a source of water under pressure, and means for pivotally mounting the scrubbing member for movement.

3. In a scrubbing apparatus, a handle member having a pair of liquid supply pipes penetrating the same, one of the pipes being a water supply pipe and the other being a detergent supply pipe, a manually controlled valve in each of said pipes for regulating the amount of water passing through one, and the amount of detergent passing through the other, an arm mounted in said handle member and having a mop member pivotally mounted on the free end thereof, said mop member comprising a perforated plate member having a plurality of tufts therein, two sets of pipes mounted in said plate and penetrating the plate, means for flexibly connecting one of the pipes in the handle member to one of said sets of pipes, and flexible means for connecting the other of said pipes in said handle member to the other set of pipes, whereby water will flow through one set of pipes through said plate and to the tufts, and a detergent will flow through the other set of pipes of said plate to the tufts, and tension means for normally holding the vertical axis of the mop at substantially right angles to the longitudinal axis of the arm member extending from the handle.

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