

March 2, 1937.

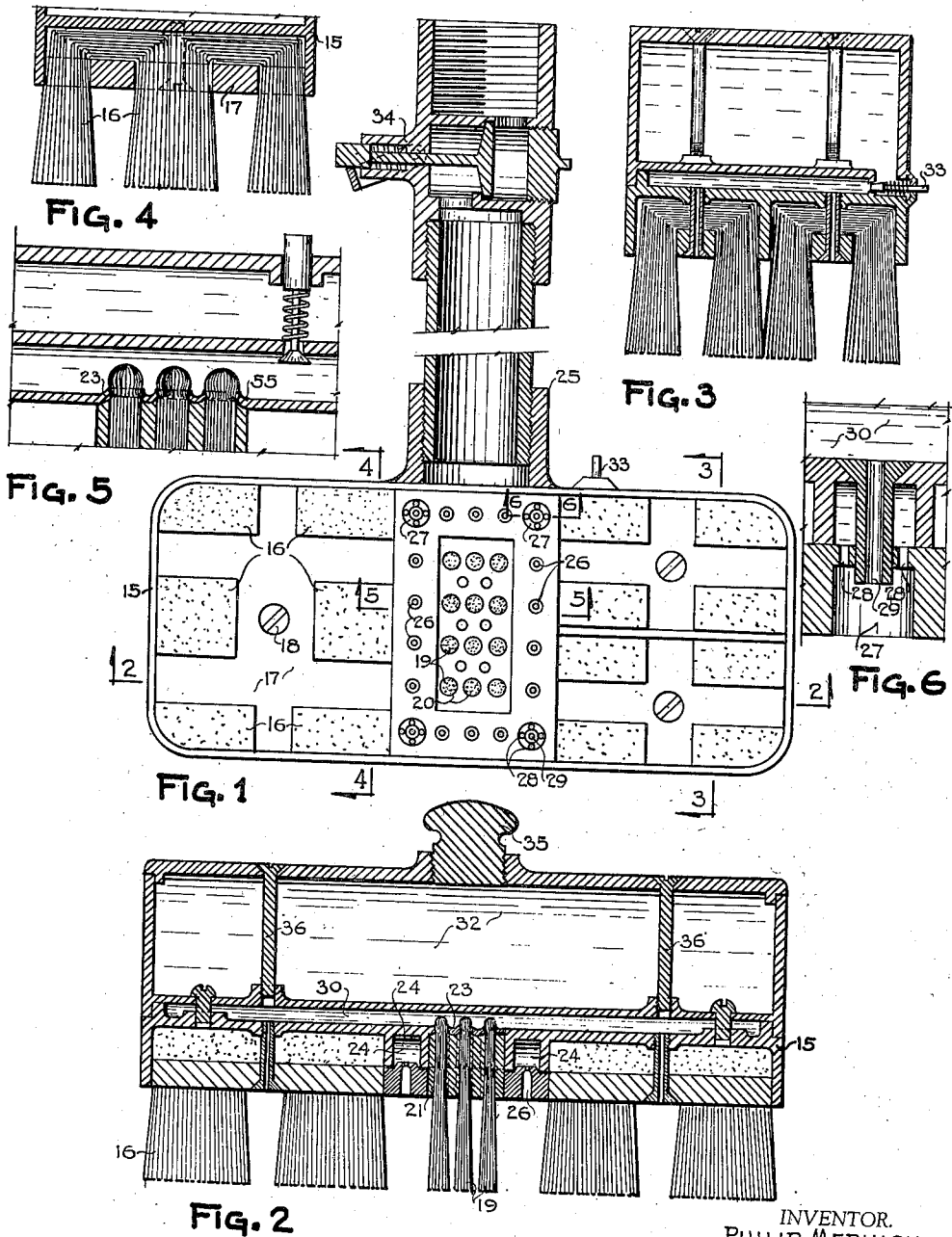
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2,072,175

BRUSH IMPLEMENT

Filed Sept. 28, 1934

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

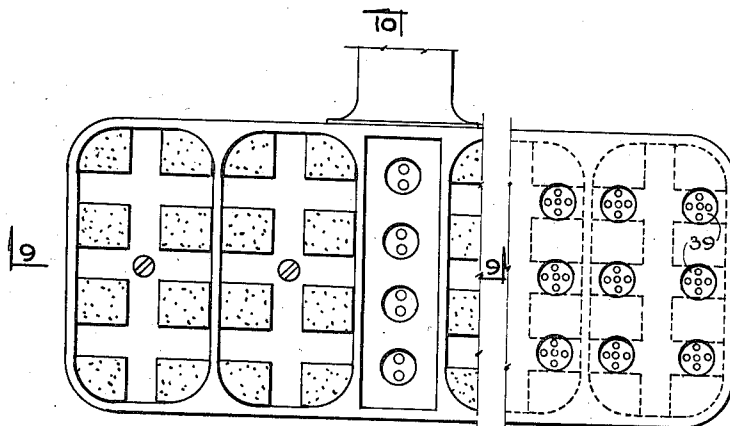


FIG. 7

FIG. 8

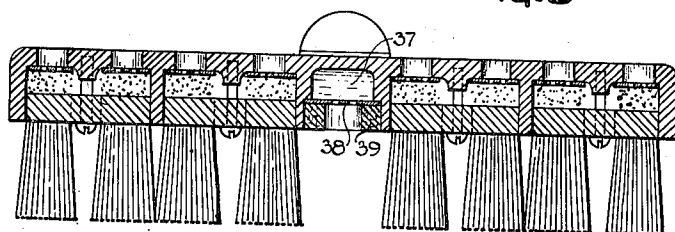


FIG. 9

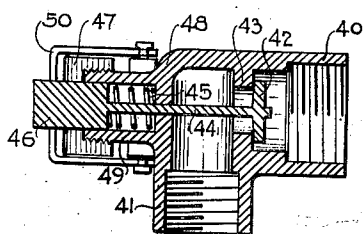


FIG. 11

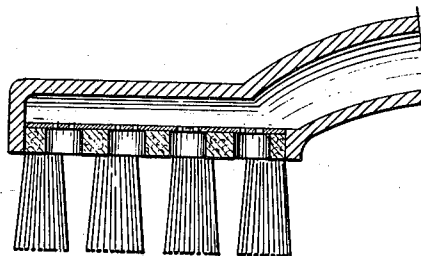


FIG. 10

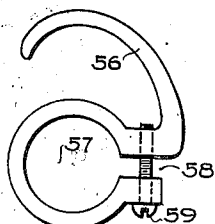


FIG. 12

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2,072,175

BRUSH IMPLEMENT

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Application September 28, 1934, Serial No. 746,014

8 Claims. (Cl. 15—129)

This invention relates to new and useful improvements in cleaning, washing and scrubbing implements, and it pertains especially to brushes with a view to the varied applications of the latter.

Thus, it is within the purview of this invention to construct the latter with a liquid soap dispensing receptacle, and a water-diffusing chamber co-operating with an assembly of bristle members.

The arrangement and construction of the various features constituting this invention is, however, to the effect that the different elements and novel features may be used in combination, as well as in sub-combination, or even independently, if it should be so desired.

This, in other words, would mean, that the liquid-soap chamber may be omitted in the device, as hereinbefore described, or both the liquid-soap chamber and the water chamber may be omitted, and the bristles arranged in a brush holder and used alone.

In like manner, it is also contemplated to use the valve-arrangement shown in combination with this device in any similar combination, where the object is to control a liquid fluid.

As the construction of my device, or any part thereof, which may be used in a sub-combination, or independently, is comparatively simple, the cost of manufacturing should be proportionately low.

With the above and other objects in view, this invention, consists of the novel features of construction, combination and arrangement of parts, hereinafter fully described, claimed and illustrated in the accompanying drawings forming part of this specification, and in which similar characters of reference indicate corresponding parts in all views, and in which:—

Figure 1 is a bottom view of my brush device, partly in section.

Figure 2 is a cross section on the line 2—2 in Figure 1.

Figure 3 is a section on the line 3—3 in Figure 1.

Figure 4 is a section, in part, on the line 4—4 in Figure 1.

Figure 5 is a section on the line 5—5 in Figure 1.

Figure 6 is an enlarged detail section on the line 6—6 in Figure 1.

Figure 7 is a bottom view, in part, of a modified construction of my device.

Figure 8 is a top plan view of same.

Figure 9 is a longitudinal section on the line 9—9 in Figure 8.

Figure 10 is a cross section on the line 10—10 in Figure 7; while

Figure 11 shows a section through a valve employed in my device; and

Figure 12 illustrates a device adapted to hold a water tube in a secure position, when the latter is not in use.

Referring more particularly to the drawings, 15 indicates a base member, or holder, made of any suitable material, and having for its object to receive and retain the bristles 16, which are attached thereto, the ensemble thus constituting a brush implement; the bristles 16 are in this construction bent upon themselves and secured in place by means of a plate 17, as shown especially in Figure 4; said plate may have kind of a cross-like form, as shown in Figure 1; the plate is in turn secured to the base 15 by means of a screw 18; or it may be forced into place in the base member.

The device has, in addition to the bristles upon each side thereof, also been formed with bristles at its center, as shown at 19; said bristles, which are disposed in holes 20 in a cover 21 are secured to the base 15 by means of the flanges 23 surrounding the holes; a special metal plate, as shown in Figure 5, and indicated by 55, may be arranged upon the base member for said purpose.

In the base is arranged a water chamber 24, which is connected to a water-inlet spout 25; said water chamber surrounds the central rectangular portion of the base, wherein the bristles 19 are disposed.

The cover 21 has been formed with side-outlets 26 for the water in the chamber 24, said outlet consisting of a small socket with an aperture in the center thereof, while at each corner of said cover 21, the latter has been made with a somewhat larger opening or socket 27, as illustrated in detail in Figure 6. In this socket 27 are formed apertures 28 leading to the water chamber or channel 24, while a screw formed with a cylindrical opening 29 therein provides an outlet from the liquid-soap chamber 30, which is arranged above the water chamber 24, thus connecting said liquid-soap chamber with the socket 27. It may in this connection be noted that as the water pours from the water chamber 24 through the openings 28, a partial vacuum or suction will be created, which in turn will cause an appropriate discharge of the liquid-soap through the cylindrical opening 29.

It will thus appear that through this arrangement the liquid-soap and water will have an excellent chance of mixing for the purpose of cleaning in co-operation with the bristles.

5 Above the liquid-soap chamber 30 is arranged a storage chamber 32, from which liquid-soap may be directed into the secondary liquid-soap chamber 30 by means of a valve 33, which has been arranged upon the side of the device, as
10 shown in Figure 3, while this latter arrangement is thought preferable, the said valve may, however, as well be arranged at the top of the device.

The water chamber has its inlet controlled by a valve 34, which has been shown associated with
15 a water tube as shown in Figure 1. The storage chamber 32 is filled by means of an opening covered by a cap-screw, as shown at 35 in Figure 2.

The compartments, or chambers, herein referred to, are connected by means of screw-bolts,
20 as shown at 36 in Figure 2.

A slight modification in the construction of my device has been shown in the Figures 7 and 8, wherein the water chamber 37 has been shown centrally arranged, the said water chamber has
25 its bottom covered by a metal plate 38 upon which in turn a rubber gasket 39, formed with oblique sides for the effective drawing of the water from said chamber 37, has been placed.

While the bristles may be arranged in any way,
30 that is either by crosswise arranged bottom pieces or by having the top portion of said bristles, arranged in tufts, secured by squeezing the flanges of the apertures through which they are inserted around them, or in any other suitable manner,
35 openings 39 have been formed in the base member and among the bristles to accomplish a quick drying of the latter.

It will appear that the device, as shown in the Figures 7, 8 and 9, has no liquid-soap chambers, and my device may, if desired, in like manner be made also without a water chamber.

While the valves between the liquid chambers may be of any conventional type or shape, a specific form of construction of a valve has been
40 shown in Figure 11, said latter valve has been arranged in connection with the water supply, but may as well be used in connection with the liquid chambers.

The valve, thus referred to, has the form of a
50 knee-bent valve, wherein the water-conduits are denoted by 40 and 41; the valve proper, 42, which is seated against an abutment 43, is secured to a stem 44, actuated by a spring 45, said stem has upon its end a push-button 46 movable up and
55 down in a screw-cap 47, the proper packing being provided for.

The end portion 48 of the knee-bent valve terminates in a cylindrical shank portion 49, which forms a housing for the spring 45 and part
60 of the valve stem 44; to said shank portion is pivotally attached a handle 50, which has for its provision to secure the valve in a set or temporarily open position, when said handle is swung upward so that the upper end portion thereof engages the
65 push-button, as the latter is in a downwardly pressed position for the purpose of opening the valve.

In Figure 12 has been shown a hook device for securing the water hose or tube, when this is not
70 in use.

Said hook consists of a preferably metal member having a bent portion 56 for attachment to an object; said member is formed with an annular opening 57, adapted to receive a tube or hose
75 therein; the said member may be adjusted to the

hose by means of a co-operating slit portion 58 and screw 59, arranged in said hook in the manner shown.

It is obvious that changes may be made in the form, construction and arrangement of the
5 several parts, as shown, within the scope of the appended claims, without departing from the spirit of the invention, and I do not therefore wish to limit myself to the construction and arrangement, shown and described herein.

What I claim as new, and desire to secure by Letters Patent of the United States, is:—

1. In a brush implement, a base member formed with a central water chamber therein opening on one face thereof, a plate covering said
15 water chamber and having bristles set in the center thereof, bristles set in a socket on one face of the base proper, the edge portion of the cover plate being formed with perforations for the outlet of water among the bristles.

2. A brush implement having a base formed with a water receptacle in its center and opening on the bottom face thereof and a liquid-soap chamber above the latter, bristles arranged upon the under face of said base, a plate covering the
25 water receptacle on said under face, said plate having bristles set in the middle of one face thereof, the periphery of said plate being formed with sockets having respective apertures therein leading to the water receptacle, and at each corner of said plate a larger socket formed with apertures therein leading to the water receptacle, a screw-bolt being arranged centrally of each of
30 said larger corner sockets, said screw-bolt being formed with a cylindrical bore in the center thereof leading to the liquid-soap chamber.

3. A brush implement having a base formed with a water receptacle in its center and opening on the bottom face thereof, and a liquid-soap chamber above the latter, said base being formed with openings upon the under face thereof and adapted to receive bristles therein, the latter being secured in place by means of the flanges surrounding the openings, a plate covering the
40 water receptacle in said base, said plate being formed with small sockets at its periphery leading to the water receptacle on said under face by means of apertures in said sockets, the plate being at each corner provided with larger sockets, a screw-bolt arranged centrally in the latter, said screw-bolt being formed with a cylindrical bore in the center thereof leading to the liquid-soap chamber, and bristles arranged at the middle portion of said plate.

4. A brush implement having a base formed with a water receptacle in its center opening on one face thereof, said base being made with a
55 socket therein, bristles set in said socket on one face of the base, a plate covering said water receptacle, said plate having bristles set in the middle thereof, the periphery of said plate being formed with sockets having an aperture therein leading to the water receptacle, and means for controlling the outlet of the water.

5. A brush implement having a base formed with a water receptacle in its center and opening on the bottom face thereof, bristles arranged upon the under face of the receptacle on one face of the base, and means for securing the bristles
70 to the latter, an apertured plate covering the open face of the water receptacle on said under face, the base having bristles centrally disposed on one face thereof, the periphery of said plate being formed with sockets having apertures therein
75

leading to the water receptacle, and means for controlling the outlet of the water.

5 6. A brush implement having a base formed with a water receptacle and an outlet face therefor at its lower middle portion, said face having tufts of bristles arranged therein and projecting from said outlet face, the base being formed with sockets having apertures therein leading to the water receptacle, and means for controlling the
10 outlet of the water.

7. In a brush device, a base formed with a plurality of channels therein, bristles disposed in said respective channels, and a single securing member engaging all said channels and wedged

into the latter, whereby to secure the bristles in position.

8. In a brush implement, a base having a liquid-soap container and being formed with a water receptacle and an outlet face for the latter at its
5 lower middle portion, said face having tufts of bristles arranged therein and projecting from said outlet face, the base being formed with sockets, each single socket having apertures therein leading to the liquid soap container and to the water
10 receptacle, respectively, and means for controlling the outlet of the water.

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