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2,501,426

SCRUBBING BRUSH

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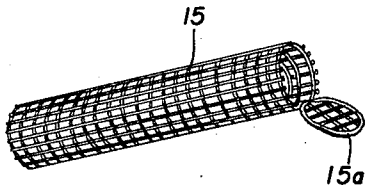


Fig. 4.

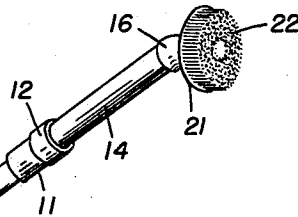


Fig. 1.

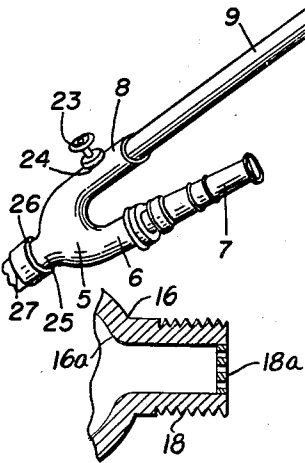


Fig. 5.

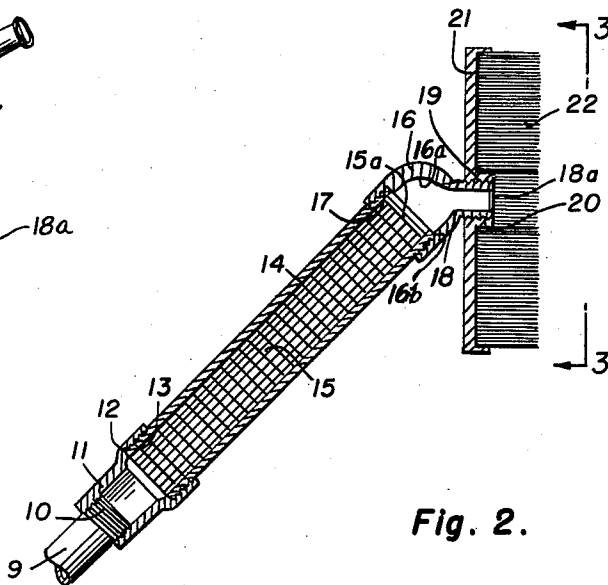


Fig. 2.

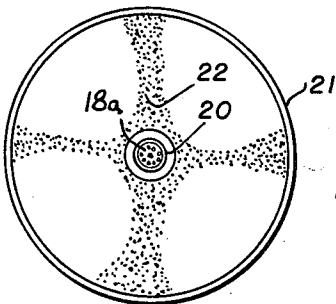


Fig. 3.

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UNITED STATES PATENT OFFICE

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SCRUBBING BRUSH

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Application March 25, 1947, Serial No. 736,957

4 Claims. (Cl. 15—129)

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This invention relates to new and useful improvements in scrubbing brushes and more particularly to a scrubbing brush wherein the water is conducted from a source of pressure through a flexible hose to a hollow handle and thence through the hollow handle and brush to the place where the water is required.

The primary feature of the present invention is to provide a device of the character referred to including a soap chamber to be used in connection with the scrubbing brush and means for enabling the operator to divert the course of the water from the inlet means into said chamber to produce soap suds at the time it is being applied to a surface to be cleaned.

Another important feature of this invention is to provide a device of the class described including means for a pressure outlet whereby a stream of unsoaped water may be discharged with or without use of scrubbing brush and in this manner a continuous cleaning operation is provided.

A further feature of this invention is to provide a scrubbing brush as referred to having a removable soap holding chamber wherein soap chips are conveniently placed.

A still further feature is to provide a device of the character described that is simple and practical in construction, efficient and reliable in operation, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view of the improved scrubbing brush constructed in accordance with the present invention.

Figure 2 is an enlarged fragmentary longitudinal sectional view taken through the soap chamber and brush.

Figure 3 is a front elevational view of the brush.

Figure 4 is a perspective view of the removable soap holding screen.

Figure 5 is a fragmentary view in longitudinal section through the neck portion and perforated disk.

Referring now to the drawings in detail, wherein for the purpose of illustration, I have disclosed a preferred embodiment of the present invention, the numeral 5 represents a substantially Y-shaped fitting threaded at one arm 6 to receive a usual spray nozzle 7.

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The opposite arm 8 of said fitting is internally threaded to receive the threaded end of an elongated handle 9 hollow throughout.

The opposite end of handle 9 is externally threaded as at 10 to receive the internally threaded decreased end 11 of a pipe union 12, and the enlarged end of said union is also internally threaded as at 13 to receive the threaded end of a soap holding cylindrical chamber 14 in which a removable cylindrical screen 15 is positioned, said screen being closed at one end by a hinged door 15a adapted to prevent soap particles leaving said screen.

An elbow fitting 16 is internally threaded at its large end 17 and adapted to fit on the threaded end of said chamber 14, with the decreased end, or neck portion, 18 of said elbow being fitted as at 19 into an internally threaded socket 20 centrally located in a brush head 21 having bristles 22, said brush being preferably circular and said end, or neck portion, 18 being closed by a perforated disk, or plate, 18a. It will be noted that the decreased end, or neck portion 18, forms a lower angular portion on the elbow fitting 16 whereby the upper portion of said fitting forms an arcuate baffle 16a, and said fitting 16 is formed with a shoulder 16b at its end 17 engaging the door 15a to maintain said door closed.

A control valve 23 of conventional type is preferably installed as at 24 in the arm 8 of said Y-fitting, said valve controlling the flow of water through handle 9.

The operation of the device is as follows; the main arm 25 of said Y-fitting being first connected by a coupling as at 26 to a usual flexible garden hose 27.

Water enters Y-fitting 5 and nozzle 7 being turned off and valve 23 turned on, the water flows through handle 9 contacting the soap particles held in chamber 14 and hence the bristles 22 of said brush head 21 is saturated with a soapy liquid. The amount of said soap liquid is controlled by regulating valve 23.

After a reasonable amount of surface has been scrubbed, valve 23 is closed and nozzle 7 is opened and the previously scrubbed area is rinsed with clean water.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the construction, operation and advantages of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even

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though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

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

1. A scrubbing brush of the class described comprising a substantially Y-shaped fitting connected at one end by a coupling to a flexible water supplying hose, one arm of said fitting adapted to receive a nozzle, an elongated hollow handle connected to the other arm of said fitting, a cylindrical soap holding chamber, a removable cylindrical soap holding screen carried within the chamber having a screened door hinged at the outer end of the screen and adapted to hold particles of soap, a union connecting one end of said chamber to the handle, a scrubbing brush having bristles, an elbow fitting including a reduced neck portion connecting the brush to the other end of the chamber, a perforated plate carried by the neck portion of said elbow adapted to spray soapy water outwardly therefrom contacting the bristles of the brush, and valve means regulating the flow of water through the handle.

2. A scrubbing brush comprising a substantially Y-shaped fitting, a nozzle secured to one arm of said fitting, an elongated hollow handle secured to the other arm of said fitting, a cylindrical soap holding chamber secured to said handle, an elbow fitting secured to said chamber,

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said elbow fitting including an arcuately bent upper portion defining a baffle, a reduced angular neck portion on said fitting adjacent said baffle, and a brush secured to said neck portion.

3. The combination of claim 2, wherein said chamber includes a screen, a hinged door on said screen, and a shoulder in said elbow fitting engaging said door to retain it in closed position while the device is assembled.

4. The combination of claim 3, wherein said neck portion includes a perforated disk at the outer extremity to form fine particles of soapy water fed to the brush.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
843,260	Cloud	Feb. 6, 1907
1,142,966	Jennings	June 15, 1915
1,253,978	Iveson	Jan. 15, 1918
1,262,539	Micka	Apr. 9, 1918
1,630,995	Withycombe	May 31, 1927
1,682,470	Bassett	Aug. 28, 1928

FOREIGN PATENTS

Number	Country	Date
215,664	Great Britain	May 15, 1924