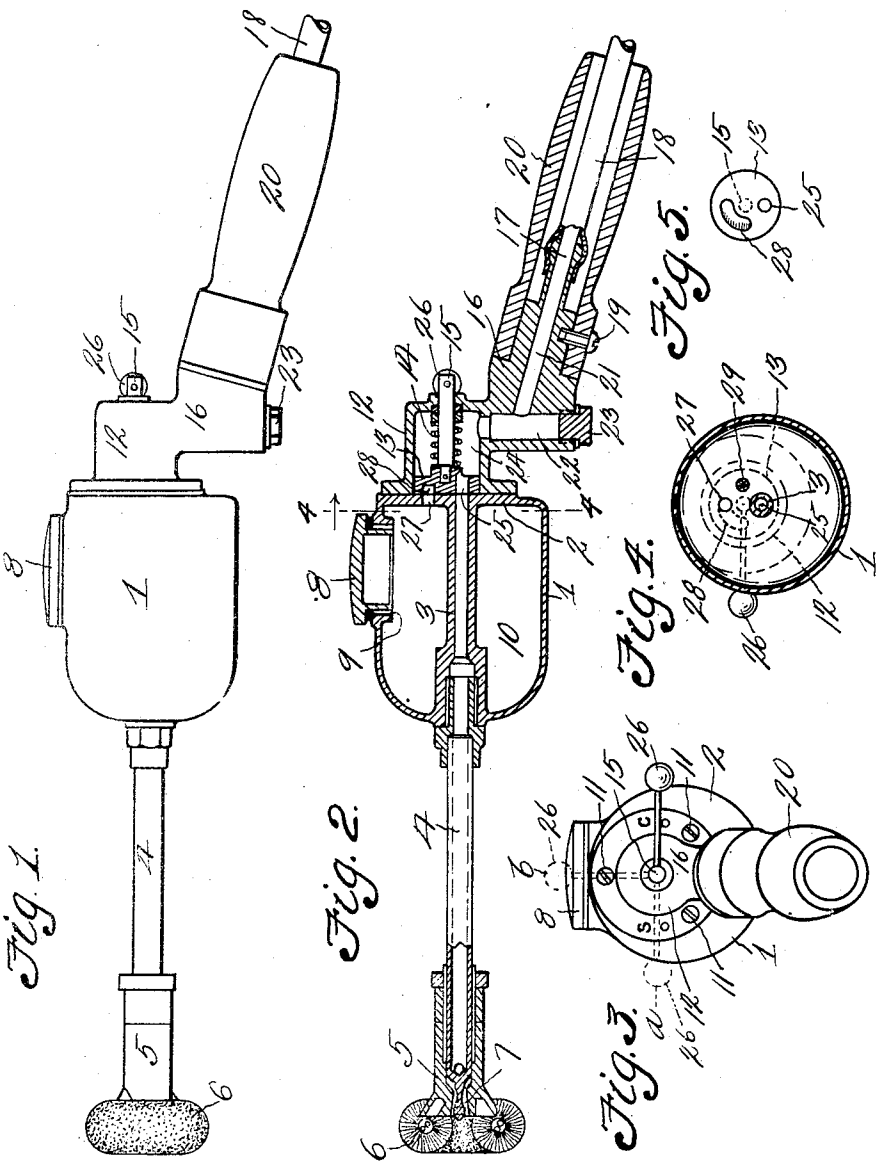


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F. A. WILCOX
DISHWASHING DEVICE
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INVENTOR.
Fred A. Wilcox
BY *George F. Oltsch*
ATTORNEY.

UNITED STATES PATENT OFFICE.

FRED A. WILCOX, OF LA PORTE, INDIANA.

DISHWASHING DEVICE.

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The invention relates to dish washing devices of the fountain brush type, and has for its object to provide a device of this character to which clear water is supplied through a hose leading to any suitable source of supply, and provided with a soap receiving receptacle through which water supply to the brush may be directed if desired, thereby supplying soapy water to the brush, during the dish washing operation.

A further object is to provide a fountain brush comprising a soap receptacle having a water conducting pipe extending axially therethrough to which a spindle is secured, and through which spindle water passes and is sprayed onto a brush carried by the outer end of the spindle. The rear end of the soap receptacle is provided with a handle member, through which water flows to the pipe and spindle from a water supply and means for directing the water through the pipe leading to the spindle, or through the receptacle and thence through the pipe to the spindle.

A further object is to provide a disc valve within the handle member and cooperating with the rear side of the soap receptacle, and provided with a port registering with the pipe through the receptacle, and an arcuate by-pass, which upon rotation of the disc valve registers with the pipe extending through the receptacle and a discharge port in the rear wall of the receptacle, thereby allowing water, which passes through the first mentioned port, which has been moved into registration with a port carried by the rear wall of the soap receptacle, to be bypassed and discharged through the pipe extending through the soap receptacle.

A further object is to dispose the disc valve in an upwardly offset portion of the handle member and to provide spring means for normally maintaining said disc valve seated at all times, and to provide a handle member disposed rearwardly of the offset portion of the handle member where it can be easily manipulated for moving the same to various positions.

With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawing, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is

claimed without departing from the spirit of the invention.

In the drawing:—

Figure 1 is a side elevation of the dish washing device.

Figure 2 is a vertical longitudinal sectional view through the device.

Figure 3 is a rear elevation.

Figure 4 is a vertical transverse sectional view taken on line 4—4 of Figure 2.

Figure 5 is a view in elevation of the valve.

Referring to the drawing, the numeral 1 designates the soap receptacle which is preferably cylindrically shaped, and preferably has its rear wall 2 flat. Extending axially through the soap receptacle 1, and preferably formed integral therewith is a pipe 3, through which water passes to the brush carrying spindle 4, which is detachably connected to the forward end of the receptacle 1. The outer end of the spindle 4 is provided with a brush carrying ferrule 5 having a brush 6, which brush is preferably round in shape and also in cross section, as shown, and onto which brush water is sprayed by the spraying nozzle 7 carried by the hollow spindle 4. The soap receptacle 1 is provided with a removable closure 8, which normally closes an opening 9, however when it is desired to supply soapy water to the brush 6, the chamber 10 is filled with soap chips by removing the closure 8. Secured to the rear flat wall 2 of the receptacle 1 by means of screws 11 is a valve casing 12, and in which valve casing is rotatably mounted a disc valve 13, which is maintained in close frictional engagement with the rear wall 2 of the receptacle 1 by means of a coiled spring 14, which surrounds the valve stem 15 and is interposed between the valve 13 and the rear wall of the valve casing 12. Valve casing 12 is formed integral with a downward and rearwardly extending member 16, which terminates in a nipple 17 for the reception of a flexible pipe 18, and which pipe is adapted to be attached to a faucet or to lead to any other source of water supply, and at the same time not interfere with the movement of the device during a dish washing operation, at which time the brush 6 is rubbed over the dish or other article being washed. Extension 16 has secured thereto by means of a screw 19 a hollow handle member 20, which surrounds the

water supply pipe 18, and is adapted to be grasped by the operator for manipulating the device. Clear water passes through the pipe 18, the port 21 of the extension 16, into the vertically disposed port 22 of the extension, and to which port 22 access may be had by removing the plug 23 for cleaning or repair purposes. The water passes upwardly through the port 22 into the chamber 24 of the valve casing 12, and thence through the port 25 in the disc valve 13, which registers with the pipe 3, and thence through the spindle 4 to the brush 6, therefore it will be seen that clear water is supplied to the brush, and the water does not pass through the soap chamber 10. When it is desired to bypass the water through the soap chamber 10, and thence through the pipe 3, the operator grasps the handle member 26 carried by the valve stem 15 and moves the same to the dotted line position *a* shown in Figure 3, which action will cause the port 25 to move 180 degrees into registration with the port 27 in the rear wall 2 of the receptacle 1, and at the same time the arcuate by-pass port 28 will be moved to a position where one of its ends will register with the end of the pipe 3, and the discharge port 29 carried by the rear wall of the soap receptacle, therefore it will be seen that water will enter the soap chamber 10 through the registering ports 25 and 27, will pass through the soap chips within the chamber 10, and will then pass rearwardly from the chamber 10 through the discharge port 29 in the rear wall 2, and thence through the arcuate by-pass port 28 downwardly into the discharge pipe 3, and thence to the brush. All of the views show the valve in position for furnishing clear water to the brush. However when the operator desires soapy water to be supplied to the brush, it is only necessary for him to grasp the valve controlling handle member 26 and move the same to the left substantially one hundred and eighty degrees to the dotted line position shown at *a* in Figure 3, and adjacent the letter S which indicates the valve is in position for supplying soapy water. When the valve controlling handle is in the position *b* shown in Figure 3, the supply of water is entirely cut off as the by-pass port 28 will register with the ports 27 and 29, and the inner end of the pipe 3 will be entirely closed, therefore it will be seen that the operator may supply soapy water, clear water, or entirely cut off the water as desired.

From the above it will be seen that a fountain brush is provided which is simple in construction, clear or soapy water may be supplied as desired and the device is constructed in a manner whereby the rear wall of the soap receiving receptacle is utilized for a seat for a rotatable disc valve, which disc valve is carried by the handle member,

thereby allowing the device to be constructed from a minimum number of parts and at the same time constructed in a manner whereby access may be easily and quickly had to the valve for repair purposes. It will also be seen that at no time does the soapy water enter the valve casing, consequently gumming of the valve casing incident to solidified soap, or deposit therefrom is obviated.

The invention having been set forth what is claimed as new and useful is:—

1. A device of the character described comprising a soap receptacle, a discharge pipe extending axially through said soap receptacle, a handle member having a water passage therethrough, a valve casing carried by said handle member and secured to one end of the soap receptacle, a disc valve carried by the handle member and seated on the adjacent end of the soap receptacle, said disc valve cooperating with ports carried by the adjacent end of the soap receptacle and by the valve, whereby water passing through the handle member may be selectively directed longitudinally through the discharge pipe or by-passed through the soap receptacle and then longitudinally through the discharge pipe.

2. A device of the character described comprising a casing having a soap chamber therein, a discharge pipe extending entirely through said casing and chamber, a handle member detachably connected to one end of the casing and having a water passage in communication with the discharge pipe, a rotatable disc valve within the handle member in engagement with one end of the casing and having a port registering with the pipe, said end of the casing being provided with a water intake port and a discharge port, said valve being provided with a by-pass port positioned whereby when the discharge pipe registering port is in registration with the intake port of the casing, said by-pass port will register with the discharge pipe and the discharge port of the casing.

3. A device of the character described comprising a discharge pipe, a soap receiving casing surrounding the rear end of the pipe, the rear end of said casing being flat, a handle member detachably connected to the rear end of said casing and having a water passage therethrough in communication with the inner end of the discharge pipe, a disc valve rotatably mounted in engagement with the flat rear end of the casing, said flat rear end of the casing and disc valve being provided with ports whereby water may be directed longitudinally through the discharge pipe without entering the soap chamber or by-passed through the chamber of the casing and thence longitudinally through the discharge pipe and means whereby said disc valve may be controlled from outside the handle.

4. A device of the character described comprising a discharge pipe, a soap receptacle surrounding one end of said discharge pipe, the rear end of said soap receptacle
5 being integral and flat, a handle member having a water passage therethrough, a valve casing carried by said handle member and upwardly offset therefrom and having
10 a chamber in communication with the water passage through the handle and the discharge pipe, a disc valve rotatably mounted in said valve casing and seated on the flat
15 rear end of the soap receptacle, means for rotating said disc valve from adjacent the handle member, said disc valve forming
20 means whereby water passing through the handle may be directed longitudinally through the discharge pipe without entering the soap receptacle or by-passed through the soap receptacle and thence through the discharge pipe.

5. A device of the character described comprising a discharge pipe, a soap receptacle surrounding the discharge pipe, a detachable handle member carried by one end
25 of the soap receptacle and having a water passage in communication with one end of the

discharge pipe, a rotatable disc valve seated on one end of the soap receptacle and disposed within the handle member and forming means whereby water may be directed
30 through the discharge pipe through a port in the disc valve without entering the soap receptacle or discharge through the soap receptacle through registering ports in the disc
35 valve and receptacle and by-passed through a discharge port in the receptacle to an arcuate port in the disc valve and thence to the discharge pipe.

6. A device of the character described comprising a discharge pipe extending through
40 a soap receptacle, a handle member carried by one end of the receptacle and having a water passage therethrough and a spring seated rotatable disc valve seated against the receptacle and cooperating with ports whereby
45 water may be directed through the discharge pipe without entering the soap receptacle or by-passed through the soap receptacle and thence longitudinally through the discharge
50 pipe, said disc valve being entirely carried by the handle member.

In testimony whereof I affix my signature.

FRED A. WILCOX.