

No. 761,078.

PATENTED MAY 31, 1904.

D. T. JONES.
DISH WASHER.
APPLICATION FILED JAN. 9, 1903.

NO MODEL.

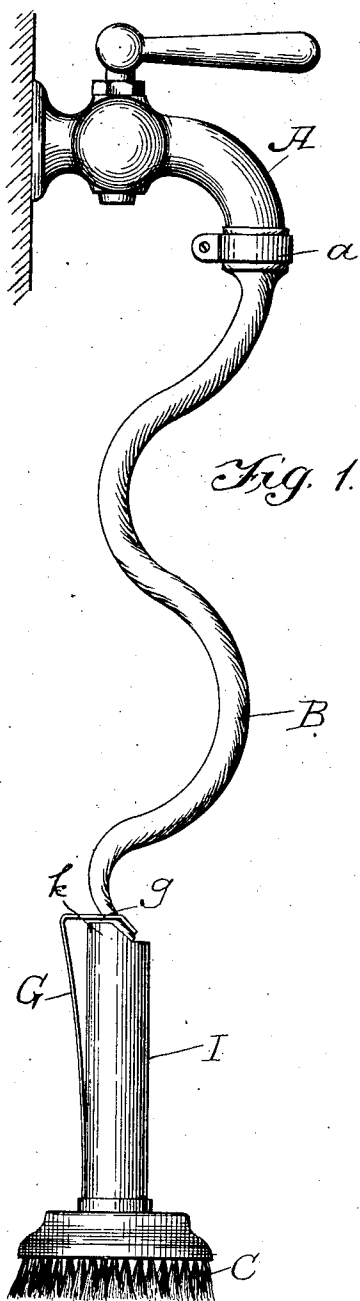


Fig. 1.

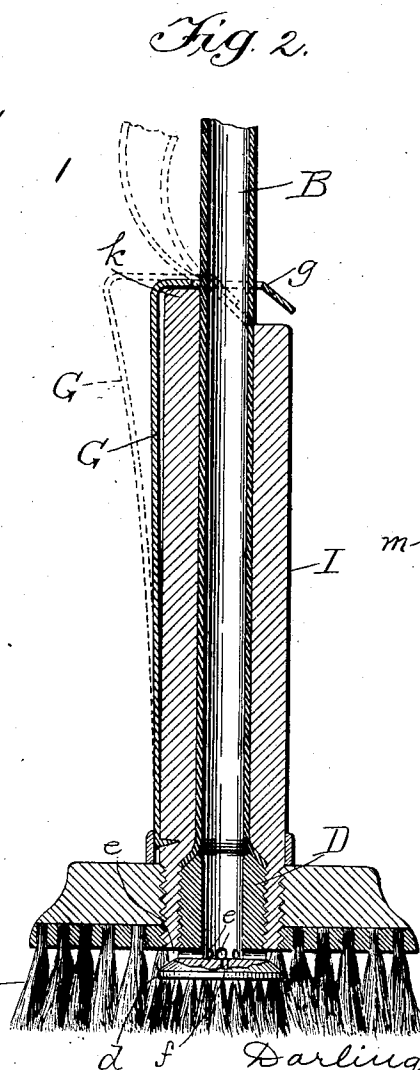


Fig. 2.

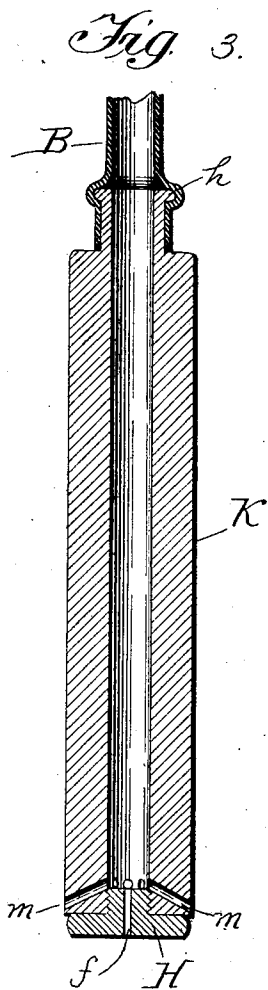


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

DARLINGTON T. JONES, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE DOMESTIC UTILITIES COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

DISH-WASHER.

SPECIFICATION forming part of Letters Patent No. 761,078, dated May 31, 1904.

Application filed January 9, 1903. Serial No. 138,362. (No model.)

To all whom it may concern:

Be it known that I, DARLINGTON T. JONES, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Dish-Washers, of which the following is a full, clear, and exact description.

My invention relates to a fountain-brush which is more particularly adapted to the washing of dishes, but which can be used for a great variety of cleansing purposes.

The object of my invention is to provide a simple, cheap, and economical device comprising a flexible tube one end of which can be quickly and conveniently fastened over the mouth of a water-faucet and a brush connected to the other end of said flexible tube and so constructed that the water from the faucet can percolate or pass therethrough, so as to enable the operator to scrub and wash at the same time; and a further object of the invention is to spread the water while the device is in use and to automatically shut the flow of the same when the brush is released. This I accomplish by the means hereinafter described, and as particularly pointed out in the claims.

In the drawings, Figure 1 is a side elevation of my invention, showing it applied to a water-faucet. Fig. 2 is a longitudinal central section through the brush drawn to a larger scale. Fig. 3 is a similar section of a modified form of my invention.

Reference being had to the drawings, A represents a water-faucet.

B represents a flexible tube, preferably made of rubber and of such diameter that one end of it can by slightly stretching the same be slipped over the mouth of the faucet and fastened thereto by its own constriction or by the aid of an ordinary clip *a*.

C represents a brush, preferably of a circular shape, which has screwed into and through the center of its back a cylindrical handle I, which is tubular throughout its length. The end of the tube extending through the back of the brush is closed in any suitable man-

ner and has longitudinal and radial perforations therein to permit the water flowing through said handle to escape the small jets in every direction into the bristles or brush material. I prefer to close the end of the handle extending through the back of the brush by a hollow plug D, and in order that the bore of this plug may be about the same diameter as the bore of the handle I increase the diameter of the latter adjacent to said end and provide the same with a female thread, which is engaged by the threaded sides of the plug. The threaded portion of the plug does not extend clear to its head, thus limiting the extent to which said plug can be screwed into the bore of the handle. In order to secure the brush to the end of the tube B, the latter is inserted into the bore of the handle such a distance that its end will extend into the screw-threaded portion thereof and screw home the plug, the beveled end of which latter as it advances enters the mouth of the tube B and spreads the same and clamps said spread portion between it and the shoulder made by increasing the diameter of the bore of the handle. The outer end of the plug is provided with a head the flanged circumferential edges *d* of which are preferably provided with an undercut bevel, and the smooth barrel of the plug next this flanged edge *d* is provided with a series of radial apertures *e e*. If desired, the head of the plug may also have one or more longitudinal perforations *f* therethrough. The head of the plug is preferably provided with a short stiff brush, which I prefer to make stiffer than the bristles of the brush C.

In operation the operator grasps the handle of the brush, which is of sufficient length to prevent the rubber tube from making any contact with the hand, and then turns on the water, which flows through said tube and through the tubular handle of the brush into the brush fiber, thus enabling the operator to scrub and rinse the dishes or other object he is washing and at the same time greatly expedite the cleansing thereof without the

necessity of employing a wash-pan, dish-rag, and other utensils such as are now usually employed. When through with the brush, the flow of water can be turned off at the faucet.

5 In view, however, of the waste of water that would probably be caused by the carelessness of menials in this respect I have provided means for automatically shutting off the flow of water the instant the brush is released.
10 This consists of a spring G, which is secured to the portion of the handle nearest the brush, which extends longitudinally to a point just beyond the opposite end of the handle and is then bent transversely over the said end and is
15 past the mouth of the bore thereof and is provided with an opening through which the tube passes. In its normal position the spring G draws the tube sidewise, so as to bring the walls of the bore thereof together, and thus
20 shut off the flow of the water through the tube. When the handle is grasped, the thumb or fingers press the longitudinal portion of the spring against the side of the brush, and thus bring the opening with its transversely-
25 bent end in alinement with the bore of the handle and straightens the tube, so that its bore is opened and water will flow there-through. In order to improve the action of the spring when compressing the tube, I extend the end of the handle on the side of the
30 bore thereof next the spring to provide a shoulder *k* for the tube to bear against when it is compressed, and I provide the adjacent extremity of the spring with an angular extension *g*, which inclines toward the handle.
35 This construction of the spring and of the handle normally compresses the tube between the spring and the shoulder *k*, and thus effectually closes the same and shuts off the flow of water therethrough.
40

If desired, I can, as shown in Fig. 3, greatly simplify the preferred construction of my invention by reducing the outer end of the handle K thereof and providing the outer
45 edge of said reduced portion with a bead *h* and slipping the spread end of the tube over the same. The end of the handle extending through the brush may be closed in any suitable manner, although I have shown a simple
50 form of stopper H for this purpose. The sides of said extended end of the handle are provided with perforations *m*, so as to cause the water to be distributed into the brush in every direction.

55 I do not desire to be confined to the exact construction of my improved brush as hereinbefore described, as it is apparent that many modifications and changes thereof may be introduced and adapted without departing
60 from the spirit of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. An article of manufacture comprising a brush, a tubular handle extended through its
65 back and having the bore of its extended end

enlarged and threaded, a plug screwed into said end the head of which has a circumferential flange and the body of which has radial perforations therein next said flange, and a flexible tube adapted to connect the opposite
70 end of said handle to a suitable source of water-supply.

2. An article of manufacture comprising a brush, a tubular handle extended through its back and having the bore of its extended end
75 enlarged and threaded, a plug screwed into said end the head of which is provided with a brush and has a circumferential flange and the body of which has radial perforations therein next said flange, and a flexible tube
80 adapted to connect the opposite end of said handle to a suitable source of water-supply.

3. An article of manufacture comprising a brush, a tubular handle extended through its back and having the bore of its extended end
85 enlarged and threaded, a plug screwed into said end the head of which has a circumferential flange and the body of which has radial perforations therein next said flange, and a flexible tube adapted to connect the opposite
90 end of said handle to a suitable source of water-supply said tube entering the bore of the handle and extending into the enlarged portion thereof and its adjacent annular edges spread by and clamped between the end of
95 the plug and the shoulder of said enlarged portion.

4. An article of manufacture comprising a brush, a tubular handle extended through its back and having the bore of its extended end
100 enlarged and threaded, a plug screwed into said end the head of which is provided with a brush and has a circumferential flange and the body of which has radial perforations therein next said flange, and a flexible tube adapted
105 to connect the opposite end of said handle to a suitable source of water-supply, said tube entering the bore of the handle and extending into the enlarged portion thereof and its adjacent annular edges spread by and clamped
110 between the end of the plug and the shoulder of said enlarged portion.

5. An article of manufacture comprising a brush, a tubular handle extended through its back, a flexible tube adapted to connect the
115 same to a suitable source of water-supply, and a spring, one end of which is secured to said handle near said brush and the opposite end of which is bent laterally over the adjacent
120 end of the handle and has an opening therein through which said tube passes as and for the purpose set forth.

6. An article of manufacture comprising a brush, a tubular handle extended through its back and having its opposite end on one side
125 of its bore extended to form a shoulder, a flexible tube adapted to connect the same to a suitable source of water-supply, and a spring, one end of which is secured to said handle near said brush and the opposite end of which is
130

bent laterally over the adjacent end of the handle and its extremity bent or inclined toward the end of said handle.

7. An article of manufacture comprising a brush, a tubular handle extended through its back and having the bore of its extended end enlarged and threaded, a plug screwed into said end the head of which has a circumferential flange and the body of which has radial perforations therein next said flange, a flexible tube adapted to connect the opposite end of said handle to a suitable source of water-supply, and a spring-actuated device for automatically stopping the flow of water there-
15 through when said brush is released.

8. An article of manufacture comprising a brush, a tubular handle extended through its back and having the bore of its extended end enlarged and threaded, a plug screwed into said end the head of which is provided with a brush and has a circumferential flange and the body of which has radial perforations therein next said flange, a flexible tube adapted to connect the opposite end of said handle to
20 a suitable source of water-supply, and a spring one end of which is secured to said handle near said brush and the opposite end of which is bent laterally over the adjacent end of the han-

dle and has an opening therein through which said tube passes as and for the purpose set forth. 30

9. An article of manufacture comprising a brush, a tubular handle extended through its back and having the bore of its extended end enlarged and threaded, a plug screwed into said end the head of which has a circumferential flange and the body of which has radial perforations therein next said flange, a flexible tube adapted to connect the opposite end of said handle to a suitable source of water-
35 supply said tube entering the bore of the handle and extending into the enlarged portion thereof and its adjacent annular edges spread by and clamped between the end of the plug and the shoulder of said enlarged portion, and
40 a spring one end of which is secured to said handle near said brush and the opposite end of which is bent laterally over the adjacent end of the handle and its extremity bent or inclined toward the end of said handle. 50

In testimony whereof I have hereunto set my hand this 22d day of December, 1902.

DARLINGTON T. JONES.

Witnesses:

E. W. HART,
E. K. LUNDY.