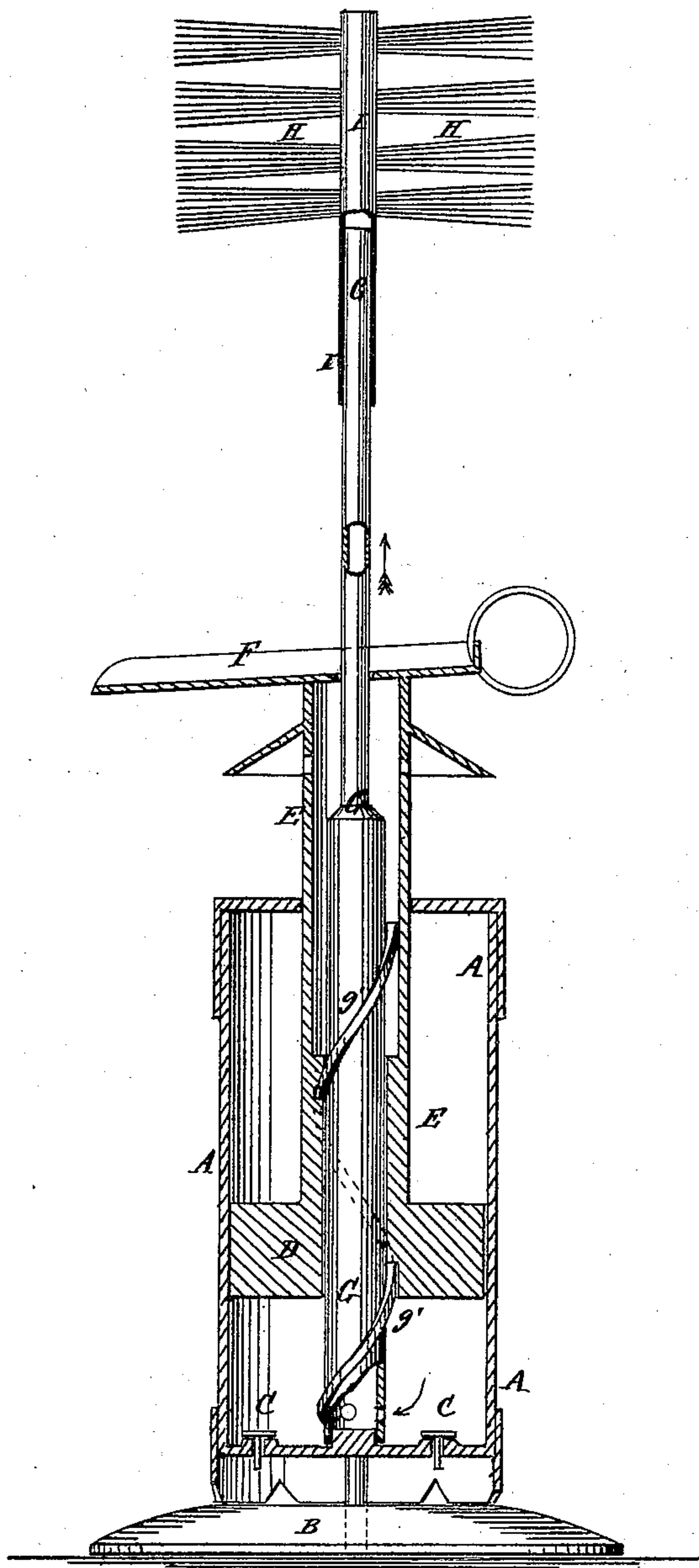


W. DICK.

Bottle-Washers.

No. 136,423.

Patented March 4, 1873.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM DICK, OF NEW YORK, N. Y.

IMPROVEMENT IN BOTTLE-WASHERS.

Specification forming part of Letters Patent No. **136,423**, dated March 4, 1873.

To all whom it may concern:

Be it known that I, WILLIAM DICK, of the city, county, and State of New York, have invented a new and useful Improvement in Bottle-Washer, of which the following is a specification:

The figure is a detail sectional view of my improved device.

My invention has for its object to furnish an improved device for washing bottles, lamp-chimneys, globes, &c., which shall be simple in construction, convenient in use, and effective in operation, washing the articles quickly and thoroughly. The invention consists of the combination of the cylinder, heavy base, valves, piston, tube, pan, tube provided with a screw-thread, and the brush, as hereinafter fully described.

A is a hollow cylinder, the lower end of which is flanged, and is attached to a base, B, of sufficient weight to anchor the device in a pan of water. In the flanges of the bottom of the cylinder A are formed notches or holes to allow the water to pass through freely. In the bottom of the cylinder A are formed one, two, or more openings, which are closed with valves C opening upward. D is a piston, which fits into cylinder A, has a hole formed in its center, and is attached to the lower end of a tube, E, which passes up through the cover of the cylinder A, and has a pan, F, attached to its upper end to receive the water from the article being washed, and guide it back into the pan. The tube E has holes formed in its upper part to allow the air to pass in and out freely. G is a tube, the lower part of which is made large to fit into the hole in piston D. The lower end of the tube G revolves upon a

pivot attached to the bottom of the cylinder A. Upon the lower larger part of the tube G is formed a screw-thread, *g'*, of steep pitch, which fits into a screw-thread upon the piston D and lower part of the tube E, so that the tube G may be revolved by the up-and-down movement of the said piston D and tube E. The upper part of the tube G is made smaller and passes up through a hole in the pan F. H is the brush, which is formed upon a tube, I, fitting upon the upper end of the tube G.

In using the device the bottle or other article to be washed is held over the brush H, and the tube E and piston D are moved up and down by means of the handle formed upon the pan F, revolving the brush H. As the piston D is raised a vacuum is formed in the lower part of the cylinder A, and the atmospheric pressure forces the water in, opening the valve C and filling the lower part of said cylinder A. As the piston D is forced downward, the valves C are closed, and the water is forced up through the tube G, and is discharged against the inner surface of the article to be washed, while the said surface is being rubbed by the brush H.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the cylinder A, heavy base B, valves C, piston D, tube E, pan F, tube G provided with a screw-thread, *g'*, and brush H I with each other, substantially as herein shown and described.

WILLIAM DICK.

Witnesses:

JAMES T. GRAHAM,
T. B. MOSHER.