No. 647,182. Patented Apr. 10, 1900.

J. H. GARAND.

TUMBLER WASHER.

(Application filed Dec. 1, 1899.)

(No Model.)

Fig. 1.

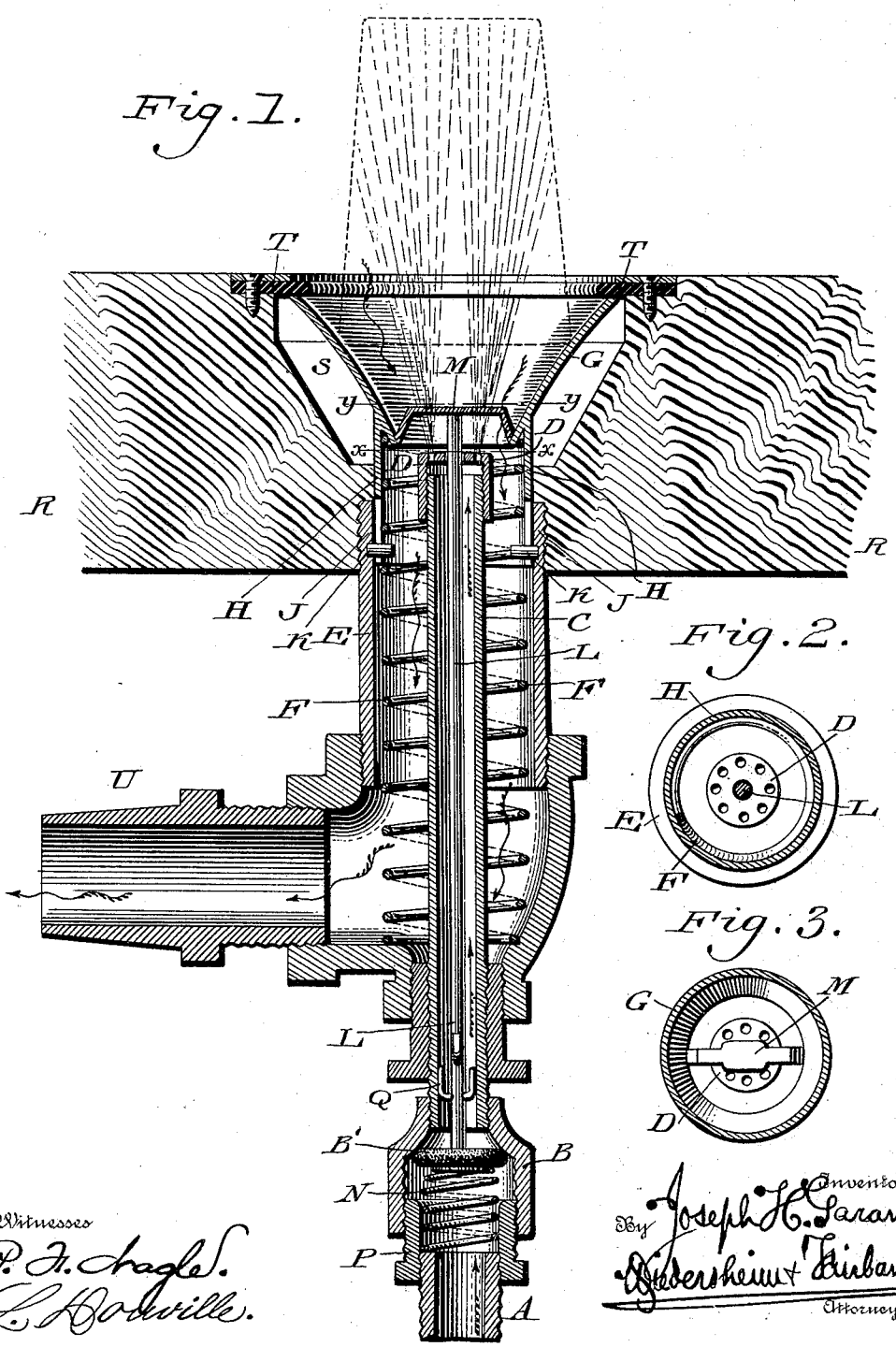


Fig. 2.




Fig. 3.




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# UNITED STATES PATENT OFFICE.

JOSEPH H. GARAND, OF PHILADELPHIA, PENNSYLVANIA.

## TUMBLER-WASHER.

SPECIFICATION forming part of Letters Patent No. 647,182, dated April 10, 1900.

Application filed December 1, 1899. Serial No. 738,855. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH H. GARAND, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Drinking-Glass Washers, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a device for washing a drinking glass or vessel embodying a movable funnel to receive said vessel, a valve whose opening is controlled by said funnel due to the pressure of the glass or vessel thereagainst, and means for returning the parts to their normal position and close the valve, the novel features or members of the device being hereinafter described, and pointed out in the claims that follow the specification.

It also consists of details of construction, as will be likewise pointed out.

Figure 1 represents a vertical section of a washing device for a drinking glass or vessel embodying my invention. Fig. 2 represents a horizontal section on line $x\,x$, Fig. 1. Fig. 3 represents a horizontal section on line $y\,y$, Fig. 1.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a supply-pipe, with which is connected the valve B, rising from which is the conduit C, at the upper end of which is the rose D.

E designates a waste-pipe which incloses said conduit C and contains the spring F, which is suitably supported therein and on which is seated the funnel G, the latter receiving the glass or vessel to be washed. Depending from said funnel is the collar H, in which are vertical slots J, into which project the pins K, the latter being secured to the upper portion of the waste-pipe E, it being noticed that said funnel is adapted to be lowered and raised and is guided in its motions by said pins and slots.

L designates the stem of the valve B, the same passing through the conduit C, and has resting on the upper end thereof the bridge M, which is located within the funnel G and secured thereto. Within the shell of the valve B is the spring N, which is at the base of the funnel sustained on the shoulder P or a fixed part of the coupling of the pipe A and said shell and bears upwardly against the head B′ of the valve, whereby the latter is held in closed position. Connected with the valve-stem are wings Q, which freely contact with the inner surface of the conduit C and serve to assist in guiding the lower portion of said stem in its vertical motions, it being noticed that the upper end of said stem passes through an opening in the rose D and is guided by the same.

R designates a portion of a counter or table to which the waste-pipe E is attached, and in the same above the waste-pipe is an opening S, which is occupied in part by the funnel G and is of such diameter that said funnel may fall and rise therein. Connected with the wall of the upper part of said opening is the gasket T, against which said funnel when in closed position may abut, thus forming a tight joint for the top of said funnel and providing a ledge which prevents splashing of the water that may escape where the glass or vessel contacts with the funnel.

The operation is as follows: When the drinking glass or vessel is to be washed, it is inserted in inverted condition into the funnel G and pressed down thereagainst, whereby the holding action of the spring F is overcome and said funnel descends. The bridge M now presses downwardly against the valve-stem L, whereby the valve is opened and the water directed by the pipe A is passed through the valve B and the conduit C and discharged through the openings in the rose D in jets or streams into the glass or vessel, as shown by the dashed lines, thus washing the interior of the same. When the glass or vessel is removed, the stem L is released of the holding action of the bridge M, and the spring N then operates to close the valve, and thus cut off the supply of water. Simultaneously therewith the spring F raises the funnel G and restores it to its normal position in contact with the gasket T. Should it be desired to wash the outside of the glass, it is evident that it may be presented to the funnel and pressed against the same, so that water may be admitted into said funnel and flow against the desired portion of the glass.

It will be observed that the bottom of the funnel is open and communicates not only

with the rose D, but the pipe K. Consequently the waste water from the glass or vessel returns through the funnel and enters said pipe K, whereby it is directed by the branch U of said pipe away from the same. It will also be seen that the funnel is of the form of an inverted cone, so that glasses of different sizes may be admitted thereinto and contact with the same, so as to fit tightly in position.

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

1. A movable funnel with an open base, a supplying-conduit having its discharge end adjacent to said base, a stationary waste-pipe which is in communication with said funnel, a valve for said conduit and a connection for said funnel and the stem of said valve, said stationary waste-pipe forming a downward continuity of the lower portion of said movable funnel.

2. A movable funnel, a rose communicating therewith, a water-supplying conduit for said rose, a valve for said conduit, a waste-pipe communicating with said funnel, a resilient support for said funnel in said waste-pipe, a spring in said valve for closing the same, and means on said funnel for engaging with the stem of said valve.

3. In a washer of the character stated, a funnel, a rose communicating with the bottom thereof, a conduit for said rose, a valve on said conduit, and means in said funnel for engaging the stem of said valve, said stem passing freely through said conduit and rose.

4. In a washer of the character stated, a movable funnel, a rose communicating therewith, a water-supplying device for said funnel leading to said rose, a waste-pipe communicating with said funnel and means on adjacent members of said funnel and pipe for guiding the funnel in its forward and return motions.

5. In a washer of the character stated, a movable funnel, a water-supplying conduit therefor, a valve for said conduit, and means on the funnel for engaging with the stem of said valve to open the same, said stem passing through said conduit and having connected with it, a guide which freely engages with the inner face of the conduit.

6. In a washer of the character stated, a movable funnel, a support therefor, the latter having an opening to receive said funnel and permit its motions therein, and a gasket on the wall of said opening adapted to have the top of said funnel close thereagainst.

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