

No. 648,604.

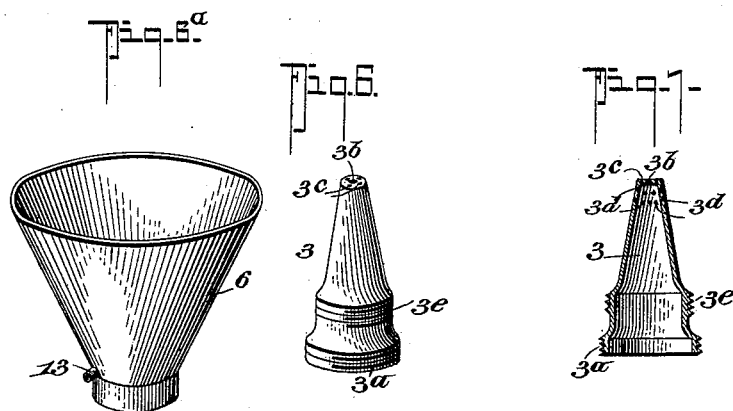
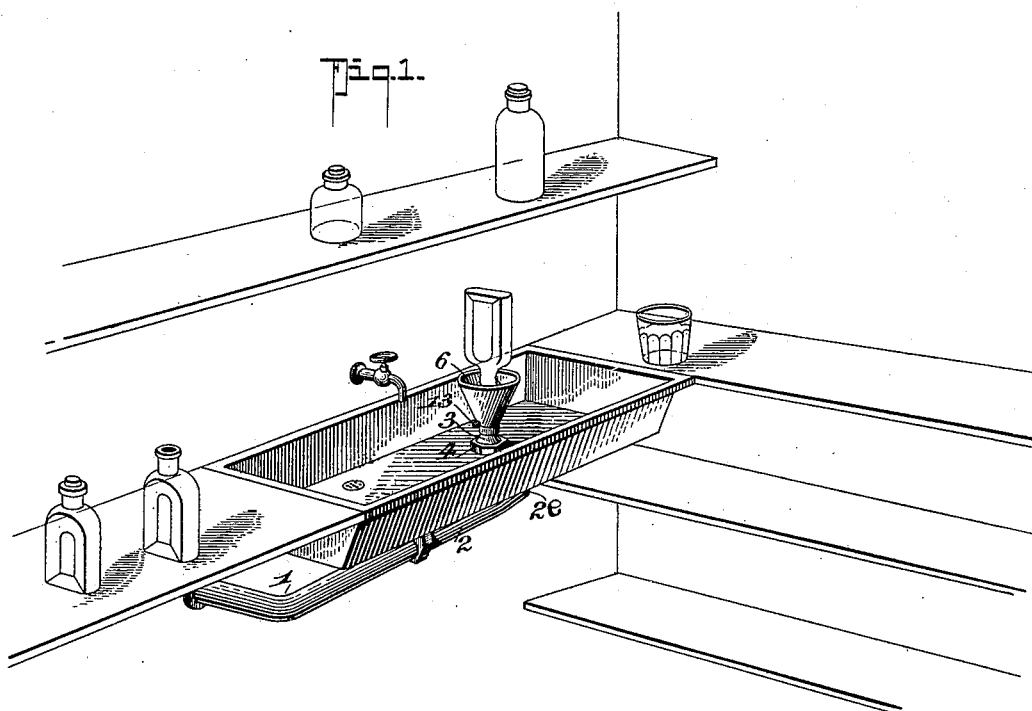
Patented May 1, 1900.

W. T. BAKER.
BOTTLE WASHER.

(Application filed July 5, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

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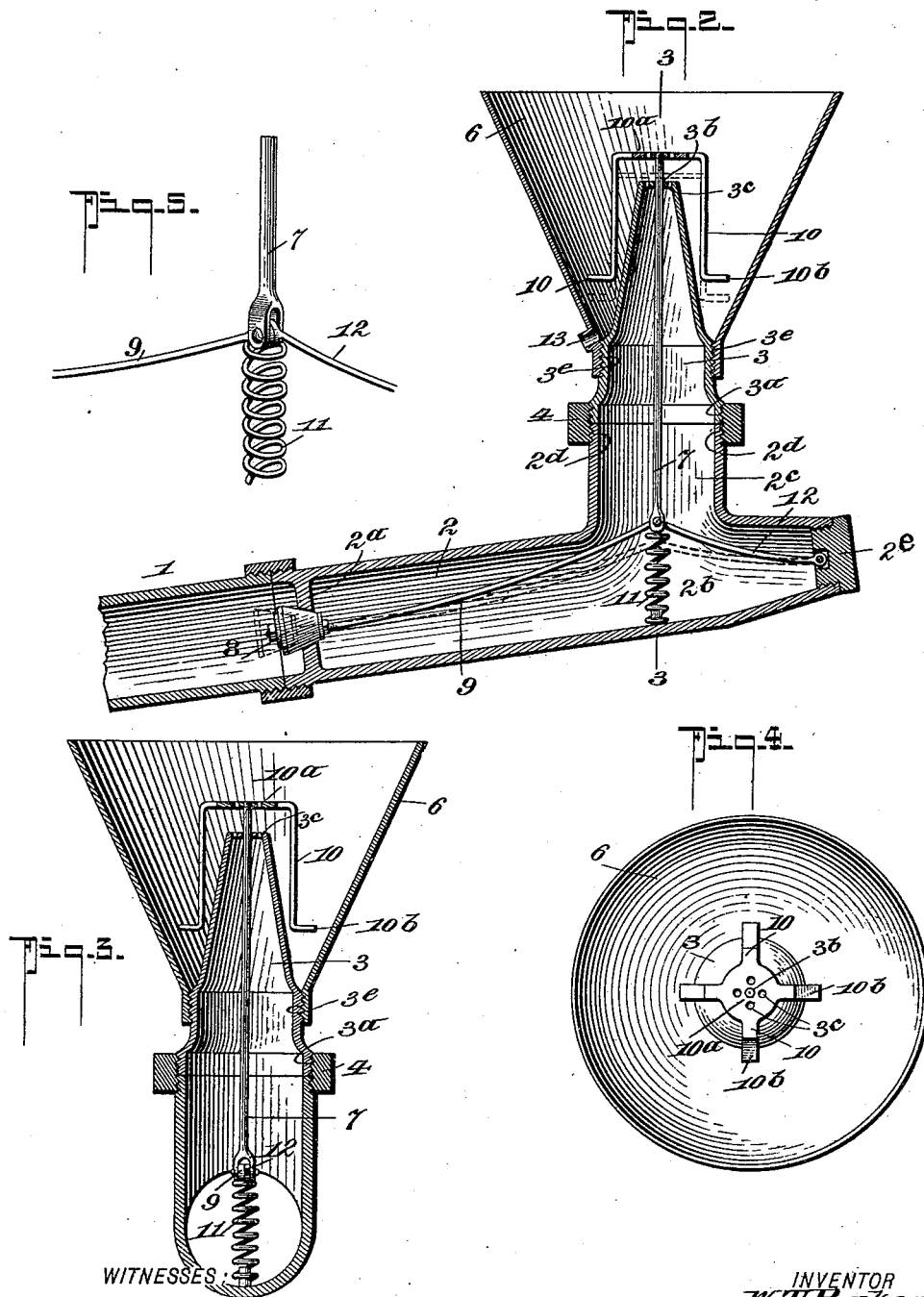
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UNITED STATES PATENT OFFICE.

WILLIAM THOMAS BAKER, OF LOUISVILLE, KENTUCKY.

BOTTLE-WASHER.

SPECIFICATION forming part of Letters Patent No. 648,604, dated May 1, 1900.

Application filed July 5, 1899. Serial No. 722,863. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM THOMAS BAKER, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented a new and Improved Bottle-Washer, of which the following is a specification.

This invention relates to improvements in bottle or tumbler washing appliances of that kind in which the water-supply is automatically opened or closed through the effect of applying and removing the bottle or tumbler to be rinsed; and primarily my invention seeks to provide a bottle or tumbler washing means of this character of a very simple and economical construction having the several parts so arranged whereby the operation is calculated to facilitate rapid and effective work.

This invention also comprehends a novel construction of washer which will positively and quickly wash the bottle or tumbler with a minimum amount of water and without splashing, such construction also providing for operating same without wetting the hands and for easily detaching the several parts when necessary to repair.

In its subordinate features this invention consists in certain novel details of construction and peculiar combination of parts, all of which will be first described and then specifically pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view illustrating my invention as in use. Fig. 2 is a vertical longitudinal section of the same, the valve and the operating devices therefor being shown at their open position in dotted lines. Fig. 3 is a transverse section taken on the line 3 of Fig. 2. Fig. 4 is a top view of the funnel end of the washer. Fig. 5 is a detail view of the valve-operating-lever joint, the plunger-rod, and the closing-spring. Fig. 6 is a detail view illustrating the detachable spray tube or nozzle. Fig. 6^a is a detail view of the funnel, hereinafter referred to. Fig. 7 is a view illustrating the form of jet or spray tube used for washing tumblers.

In its practical construction my improved bottle-washer may be formed as a separate and distinct appliance and made of suitable

ornamental shape. In the drawings I have, however, illustrated the same as used with an ordinary druggist's sink. When so applied, the main or supply pipe 1 is located under the sink and connected to a delivery-pipe 2, having a valve-seat 2^a and an enlarged chamber portion 2^b, terminating in a vertically-extending angle portion 2^c, adapted to project up through the sink-bottom and terminating in a threaded joint 2^d.

3 indicates the jet or spray tube of a substantially-conical shape, its lower end terminating in a threaded joint 3^a, adapted to seat against the joint 2^d, to which it is connected by the union-coupling ring 4.

By providing detachable tubes 3 it is manifest that tubes of different sizes may be readily applied for washing small or large bottles or tumblers.

The upper end of the tube 3 has a central aperture 3^b, and when used for washing small bottles it has a series of jet-orifices 3^c in the top; but when a tube for large bottles or tumblers is to be used the upper end of such tube may have side orifices 3^d, as well as top orifices, as clearly shown in Fig. 7. The tube-sections 3 also have external threaded portions 3^e for the ready attachment thereto of different sizes of funnels 6, of which a smaller size is used when washing bottles.

So far as described, it will be readily apparent that the parts can be readily detached to permit the appliance being used either as a bottle or tumbler washer and also to admit of ready access to the internal parts, which I shall now describe.

8 indicates a valve detachably mounted on the end of a stem or rod 9, the free end of which projects into the chambered portion of the delivery-pipe 2 and has a pivotal connection with the lower end of a plunger-rod 7, the upper end of which passes through the central orifice 3^b of the spray-tube and terminates in a threaded head to receive the detachably-held bottle-supporting frame, comprising a pair of cross-rods 10 10, having an internally-threaded hub 10^a, adapted to screw on the end of the plunger-rod, such rods also having pendent portions terminating in out-turned supporting members 10^b on which the bottle-neck (or tumbler-rim) is adapted to

rest. The lower end of the rod 7 has a bearing or a coiled spring 11 suitably seated in the bottom of the chambered part of the pipe 2.

12 indicates a swinging link or rod hinged at one end to a plug member 2^a of the pipe 2 and pivotally joined to the rod 7.

From the foregoing description, taken in connection with the accompanying drawings, it is thought that the operation and advantages of this invention will be readily apparent. It is manifest that by placing the bottle-neck (or tumbler-rim) down on the support 10 and pressing down on the bottle (or tumbler) the rod 7 by reason of the swing of the link-rod 12 will force the valve-stem outward and open the valve, which remains open so long as pressure is maintained on the bottle or tumbler, it being obvious that the spring will return the parts to a closing position when such pressure is released.

By arranging the bottle-support and jet-tube as shown splashing and wetting of the hands is avoided, the waste-water passing out through the funnel-exit 13 into a waste-pipe to the sink. The parts are so conveniently arranged that the work of the attendant amounts only to placing and removing the bottles on the support 10 and giving a slight pressure on the bottle, such work being thereby rendered expeditious.

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

1. A bottle-washer, comprising a supply-

pipe having a chambered delivery member, a closure-valve, having its stem projected into the chamber, a spray-tube detachably secured to the delivery-pipe, a funnel surrounding the upper end of the spray-tube; a plunger-rod movable through the top of the spray-tube, having a bottle-rest portion; a spring for normally forcing the plunger-rod upward, said rod and the valve-stem being pivotally connected, all being arranged substantially as shown and described.

2. The hereinbefore-described improved bottle-washer, comprising in combination; a delivery-pipe having a chambered portion; a valve having a stem projecting into the pipe-chamber; a jet or discharge tube detachably secured to the delivery-pipe, having an annular threaded portion, and provided with a central aperture in the top; a funnel detachably fitted on the jet-tube threaded portion; the plunger-rod movable through the central opening of the jet-tube, said rod having a threaded head, and a pivotal connection at the bottom with the valve-stem; the plunger-spring; the swinging link member, and the bottle-holder detachably secured to the upper end of the plunger and consisting of a central hub and cross-rods bent downward and outward substantially as shown and for the purposes described.

WILLIAM THOMAS BAKER.

Witnesses:

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