

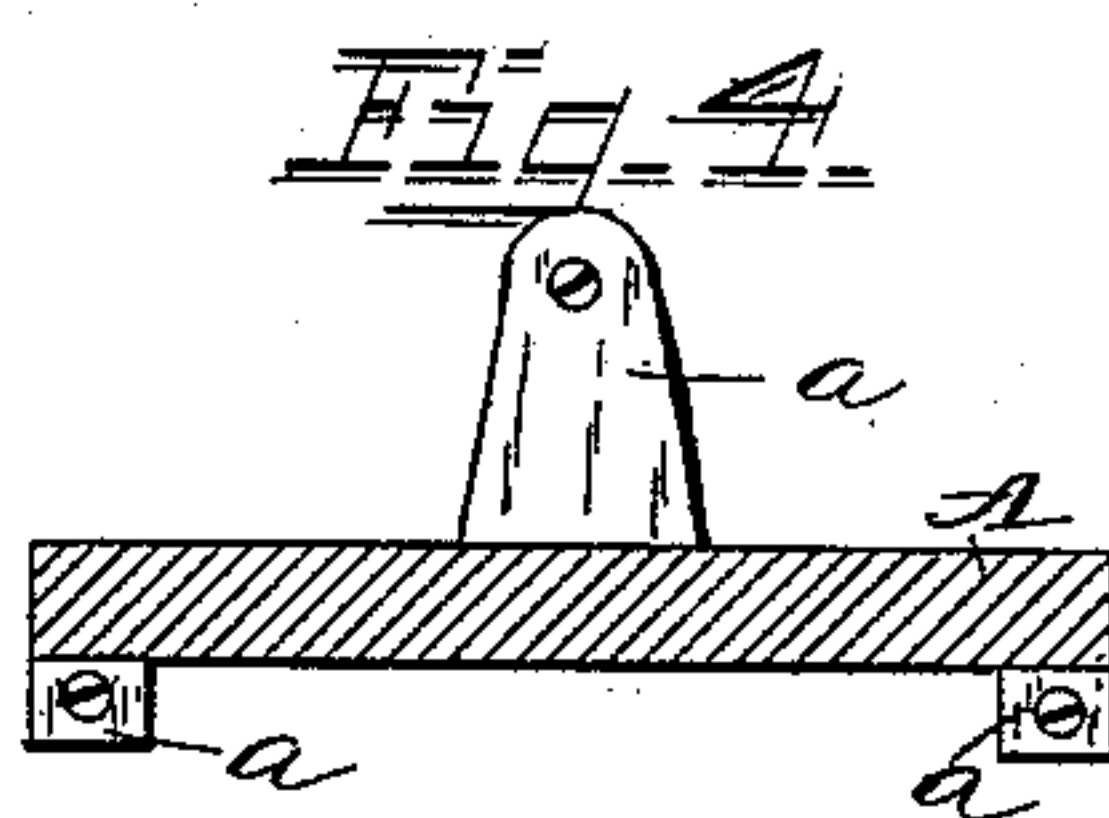
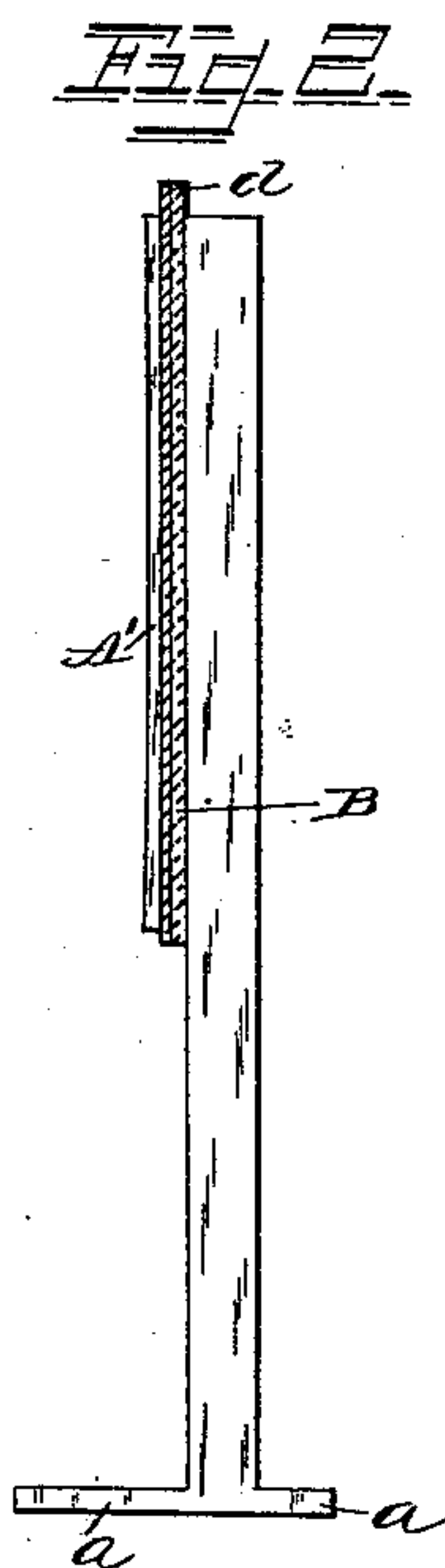
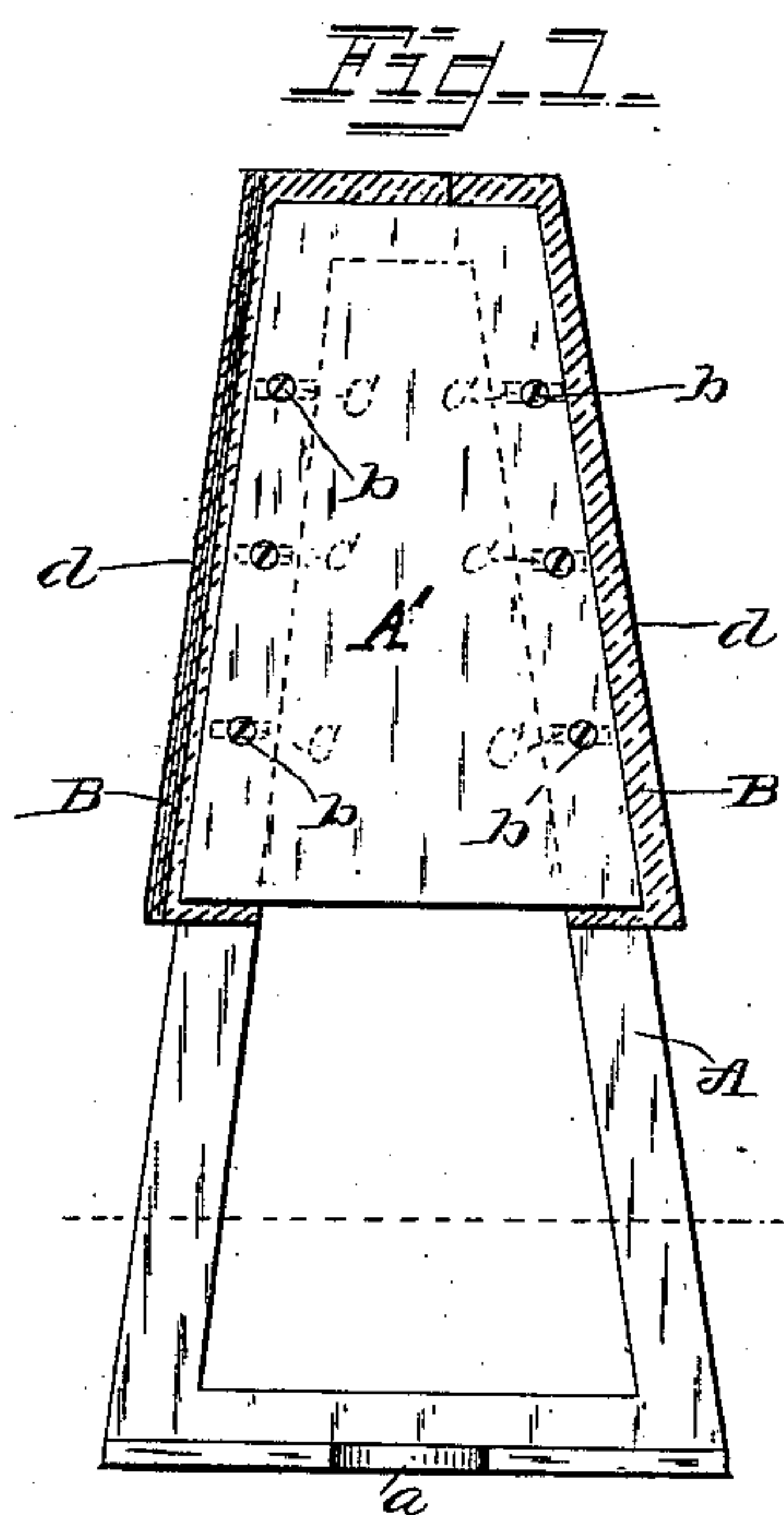
(No Model.)

J. D. O'DONNELL.

TUMBLER WASHER.

No. 349,052.

Patented Sept. 14, 1886.



WITNESSES

Howard J. Schneider,
J. Knirck Young

J. D. O'Donnell
INVENTOR.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES D. O'DONNELL, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR
TO ELIZABETH MATTHEWS, GEORGE MATTHEWS, AND JOHN H. MATTHEWS, ALL OF NEW YORK, N. Y.

TUMBLER-WASHER.

SPECIFICATION forming part of Letters Patent No. 349,052, dated September 14, 1886.

Application filed July 30, 1885. Serial No. 173,013. (No model.)

To all whom it may concern:

Be it known that I, JAMES D. O'DONNELL, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Tumbler-Washers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

In this class of contrivances among other objects it is desirable to secure are convenience, facility, and efficiency, including cheapness and simplicity, all of which are embodied in my invention, the same consisting of the combinations of parts, substantially as hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my improved tumbler washer or cleaner. Fig. 2 is a side edge view of the same. Fig. 3 is a horizontal section thereof, taken in a plane passing through the wings, showing in dotted lines the wings beveled off opposite the bevels in full lines. Fig. 4 is a similar section thereof, taken near the base.

In the organization of my invention I employ a frame-like or skeleton form of standard or support, A, preferably because of lightness and reduction of material in its construction, while securing the requisite area of surface for the end had in view at a minimum cost. This standard or support is provided or cast at its lower end or base with feet or lateral projections *a*, which are apertured to permit of the insertion through the same of screws or other suitable fastenings to secure the standard or support in position, which may be in a trough—such, for instance, as is used at soda-water fountains—or in a bucket or other suitable receptacle, as may be required. These feet or projections are arranged one upon one side of the standard or support about at the middle, being longer than the others, while the latter project from the opposite side of the standard or support at the side edges, such disposition of parts imparting a solid and

firm base to the standard or frame, to enable it to resist any pressure that would tend to its lateral displacement or breaking off thereat.

The standard or frame A is inclined at its side edges, the same converging upward to bring the standard or frame into conformity with the interior inclination of the tumbler to be cleaned or washed, as presently explained.

With this standard or frame is used an upper plate or jaws, A', likewise inclined at its side edges as the side edges of the standard or frame, said standard and plate serving as a clamp to hold between them at each side edge a rubber or elastic wing, B B, the two being connected together, or, rather, the plate being connected to the frame or standard by adjusting or holding screws *b b*, which pass through horizontal slots *c* of the wings B B. This arrangement permits of the adjustment of the rubber or elastic wings or cleaners B B, according to the diameter of the tumbler.

The wings or cleaners B, while being only of sufficient width the greater portions of their lengths to permit them to project slightly beyond the plate and standard or frame and admit of a number of adjustments from time to time as wear may make it necessary, are caused jointly to extend at their upper ends the entire width of and to project slightly above the upper ends of the standard or frame and the plate, to enable the same to act upon the bottom as well as the sides of the tumbler.

It will be seen that the outer side edges of the wings or cleaners B B are beveled in opposite directions, as at *d*, whereby said edges of the wings or cleaners are caused to act with greater efficiency, being more susceptible to spread under the action of the hand of the operator, and thus present a greater amount of frictional surface to the sides of the tumbler in the act of cleaning it. In fact, it is found that the most obstinate and greasy matters, as are contained, for instance, in some of the sirups of soda-water, are removed to the last trace by the use of this construction of cleaners or wings. The upper portions of the cleaners or wings are halved and lapped one upon the other at their meeting surfaces, as shown, to more effectually prevent their separation, and thus add to their durability and usefulness. If de-

sired, the outer side edges of the wings or cleaners B B may be beveled off at each corner edge, giving the same a tapering form, as indicated in dotted and full lines jointly in Fig. 3.

5 In using this cleaner or washer, grasp the tumbler or glass bottom upward, with the palm presented outward, by the thumb and four fingers of the hand. Then push the tumbler down upon the washer or cleaner, causing the
10 wings to come into frictional contact with its inside, until the tops of the wings touch the bottom of the tumbler on the inside. Now force the tumbler as far around as the movement of the hand in that direction will permit, thus turning the tumbler nearly three-
15 quarters of a circle, and then force it back to the starting-point, whereby the whole of the inner surface of the tumbler will be subjected to the action of the cleaner, which will, it is
20 obvious, effect the thorough scraping and cleaning of the same; or, in lieu of the foregoing manipulation, the hand may be released from the tumbler at the end of the first movement and a new grip be taken upon the tum-
25 bler, and the same plan of movement be continued to the extent required. The back-and-forth motion, however, will, I think, be found the easier after a little practice.

Among other advantages of my invention
30 may be named the following: The same can be used with or without water-pressure. Fastened upon the inside to the bottom of the bucket or trough ordinarily employed at
35 soda-water counters, the washer or cleaner can be manipulated with one hand, it only being necessary, as above pointed out, to actuate the tumbler—a decided advantage over the brush in general use, the same requiring the use of one hand to hold the tumbler while
40 using the brush with the other. Made without bristles, it is very durable, and when the edges of the wings become too much worn to permit of it being nicely operated the same may be readily duplicated at small cost, rendering the washer almost indestructible. At-
45 tached to bottom of bucket, the same being

nearly filled with water, it cleanses almost equally as well as with flowing water. It may be adapted to operate in connection with nearly if not all the tumbler-washers now in use and operated in connection with water-
50 pressure.

When water-pressure cannot be had, it is desirable to have bucket of water (in which common washing-soda has been dissolved) for
55 the submergence or dipping of the tumblers, especially where cream with chocolate sirup has been used, before applying to tumbler-washer. This removes the rough portion, and the water in the bucket with the washer does
60 not require frequent renewal, as it otherwise would.

It will here be remarked that the wings should be set or adjusted to measure about one-sixteenth of an inch more at top and bot-
65 tom than the diameter of the tumbler at those points.

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

1. In a tumbler washer or cleaner, the combination, with the elastic wings or cleaners having upwardly and inwardly inclined side edges and the clamping-plate, of the standard or support connecting with said wings and
75 plate, and provided at its lower end with lateral projections arranged upon opposite sides thereof, substantially as and for the purpose set forth.

2. In a tumbler-washer, the combination, 80 with the support or frame, of the elastic cleaners having their side edges conformed to the plane of the inner sides of the tumbler and adjustable laterally upon their support, substantially as and for the purpose set forth. 85

In testimony whereof I affix my signature in presence of two witnesses.

JAMES D. O'DONNELL.

Witnesses:

J. FENWICK YOUNG,
W. P. BOTELER.