

G. PIRRUNG.  
Window-Washer.

No. 215,158.

Patented May 6, 1879.

Fig. 3a.

Fig. 4a.

Fig. 1a.

Fig. 2a.

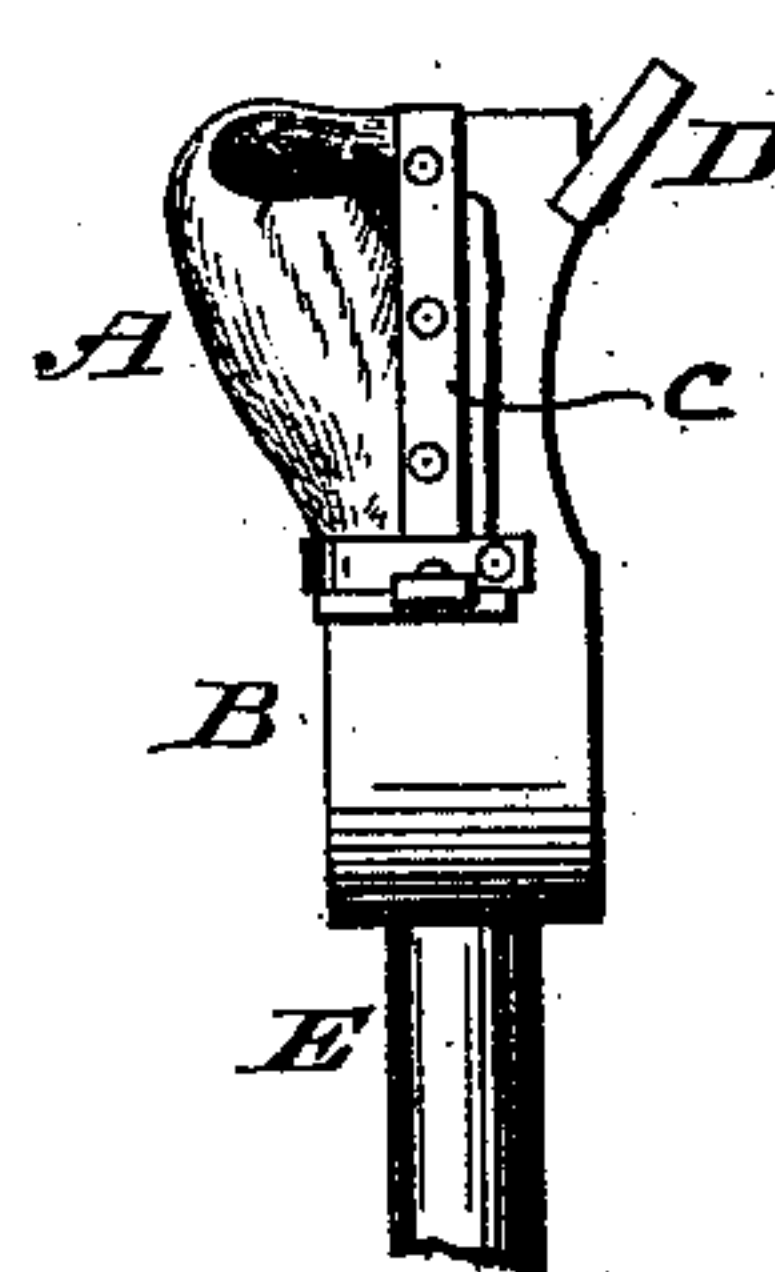
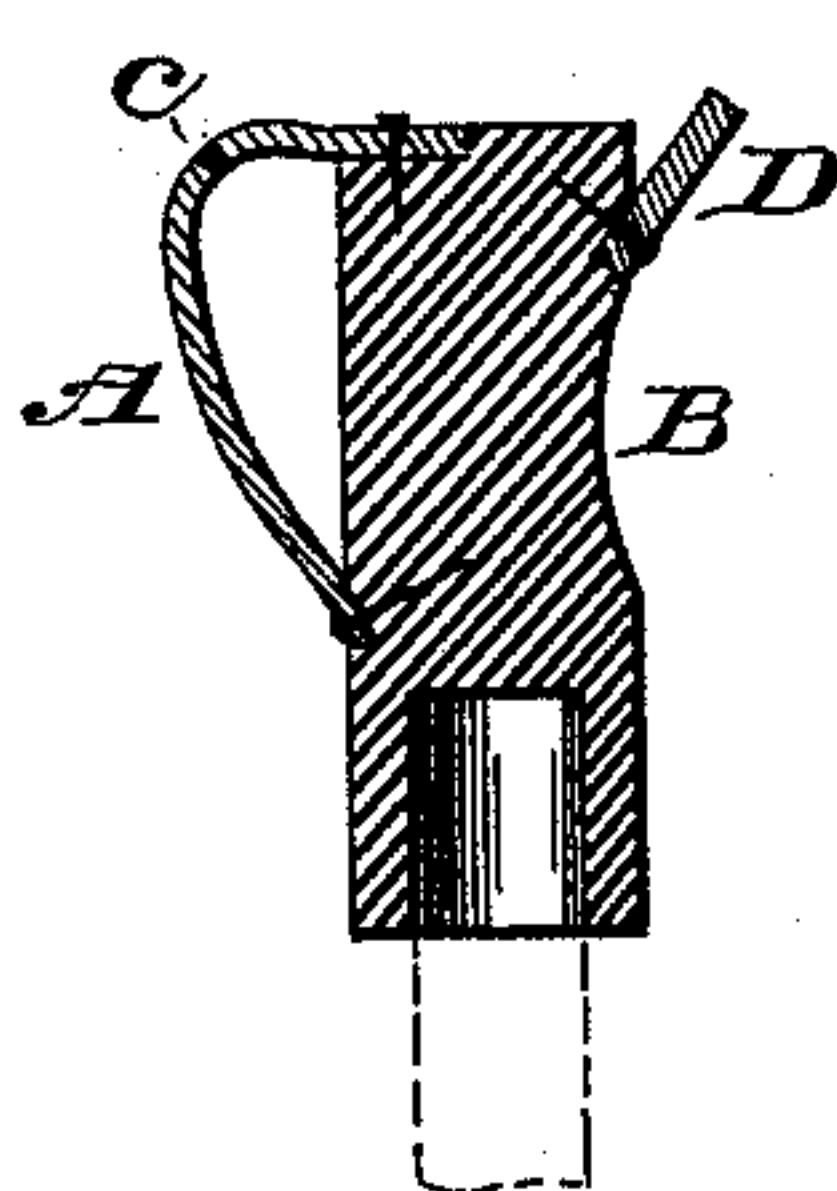
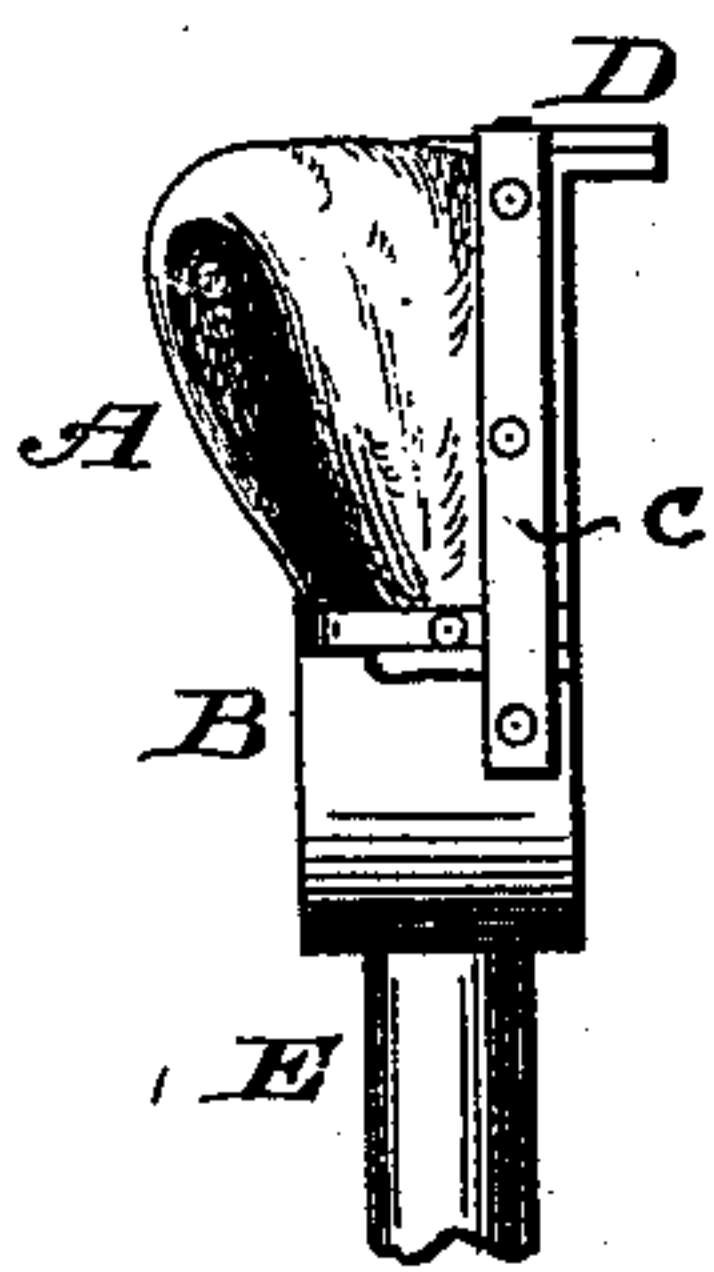
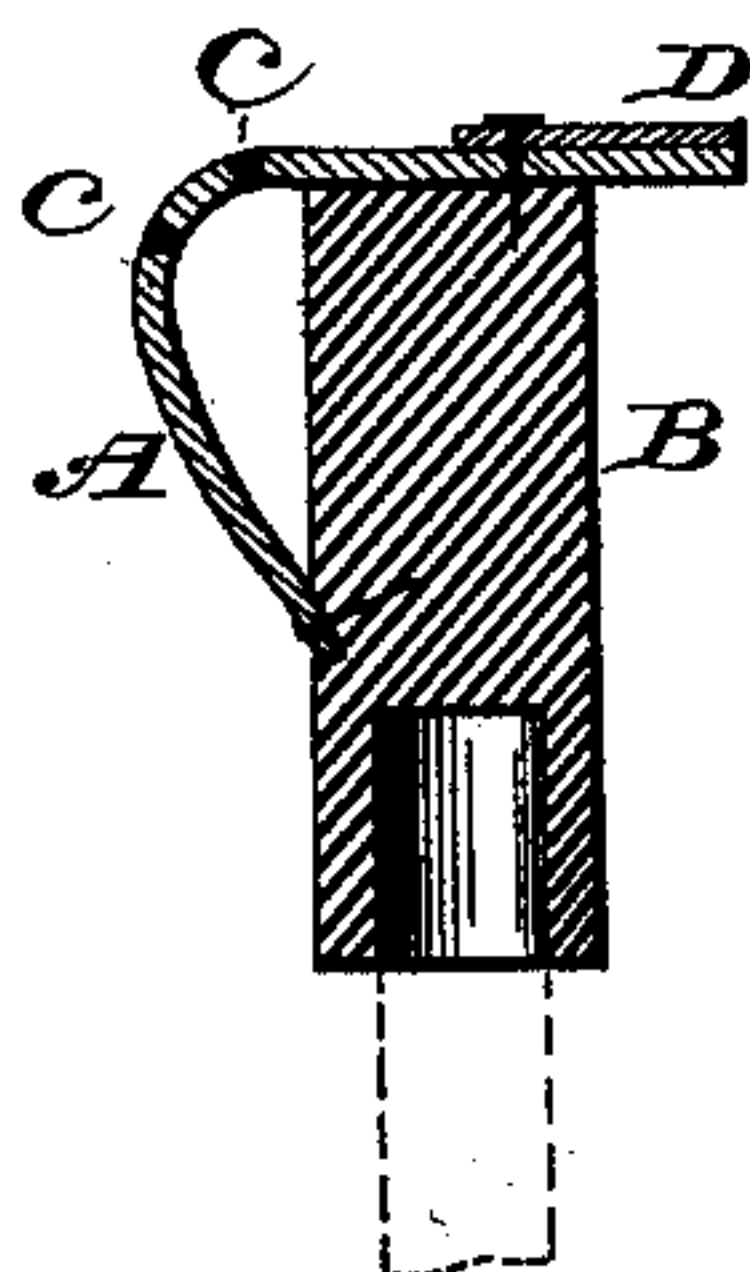


Fig. 2.

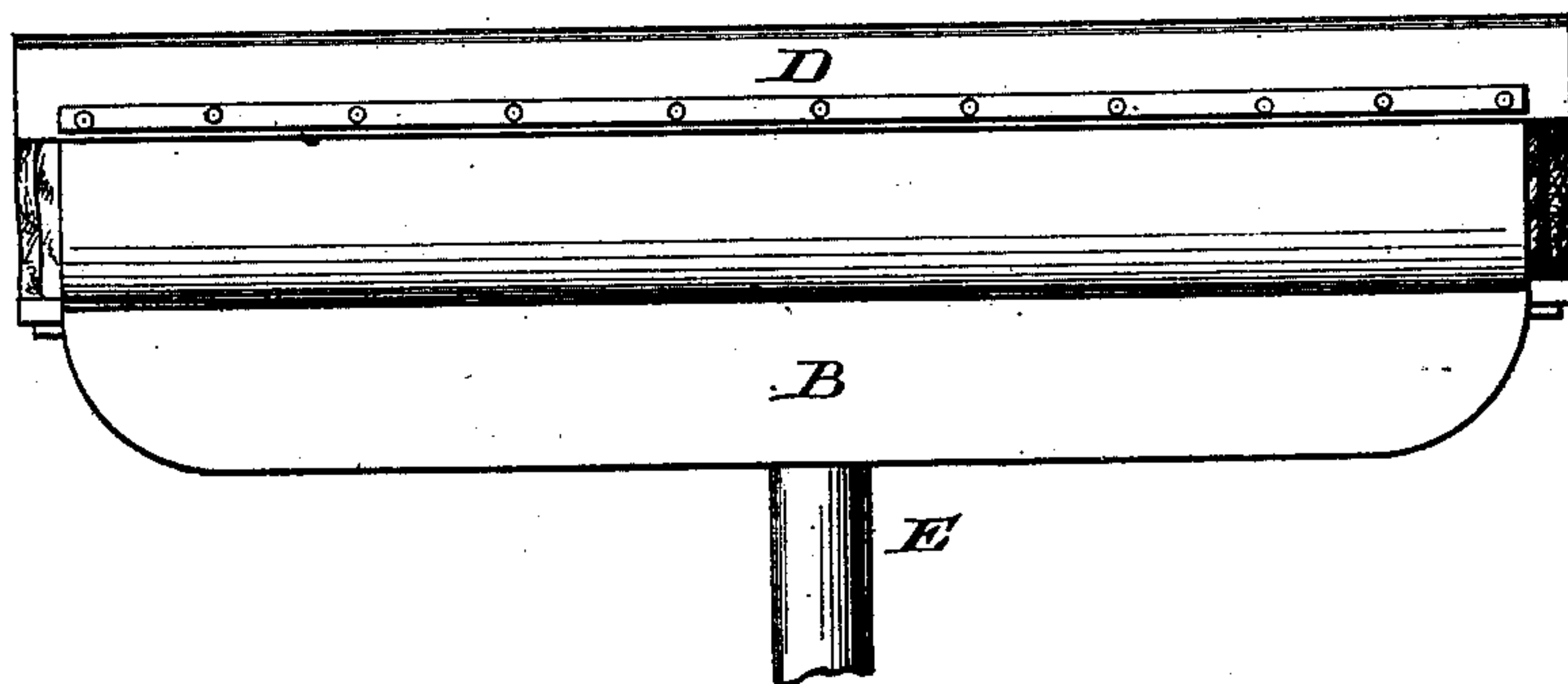
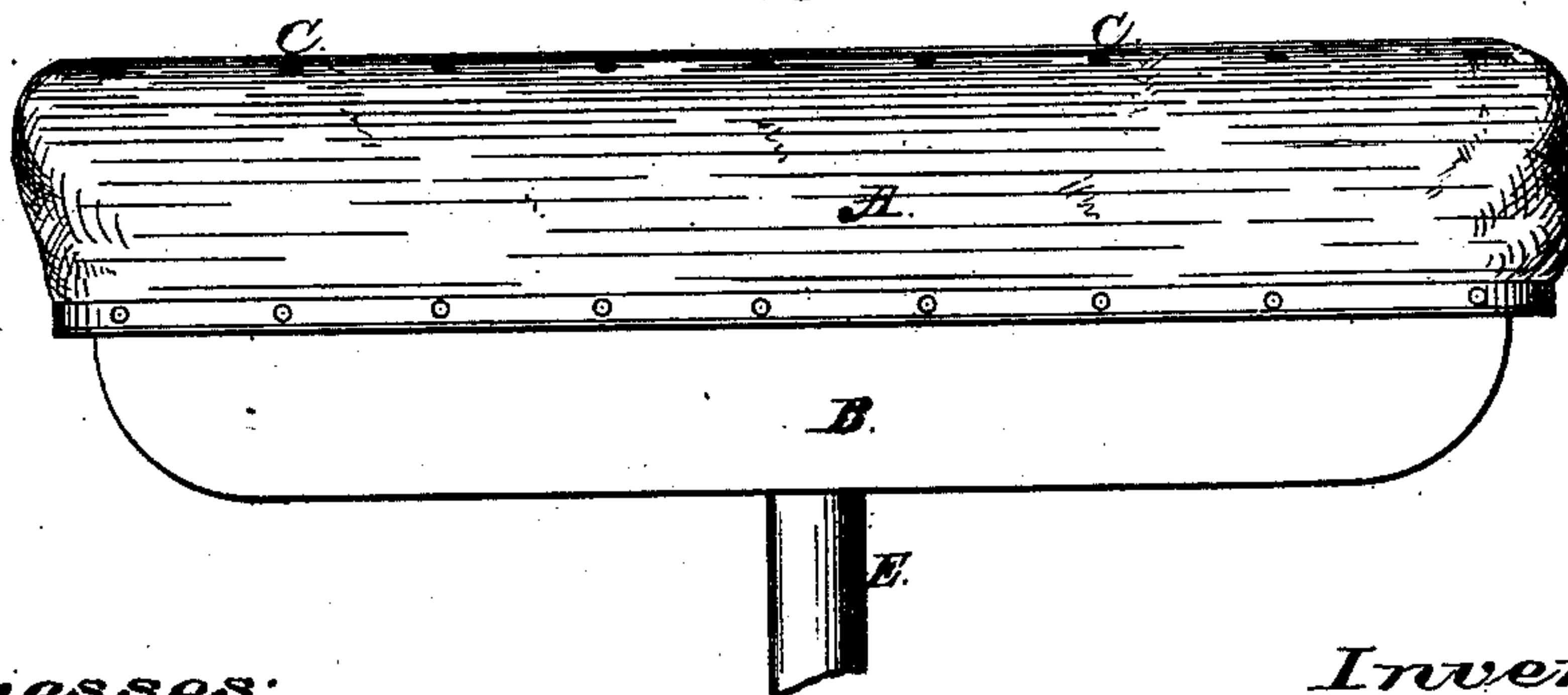


Fig. 1.



Witnesses:

Helix Pirrung  
John S. Rick Jr

Inventor:

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Fig. 4.

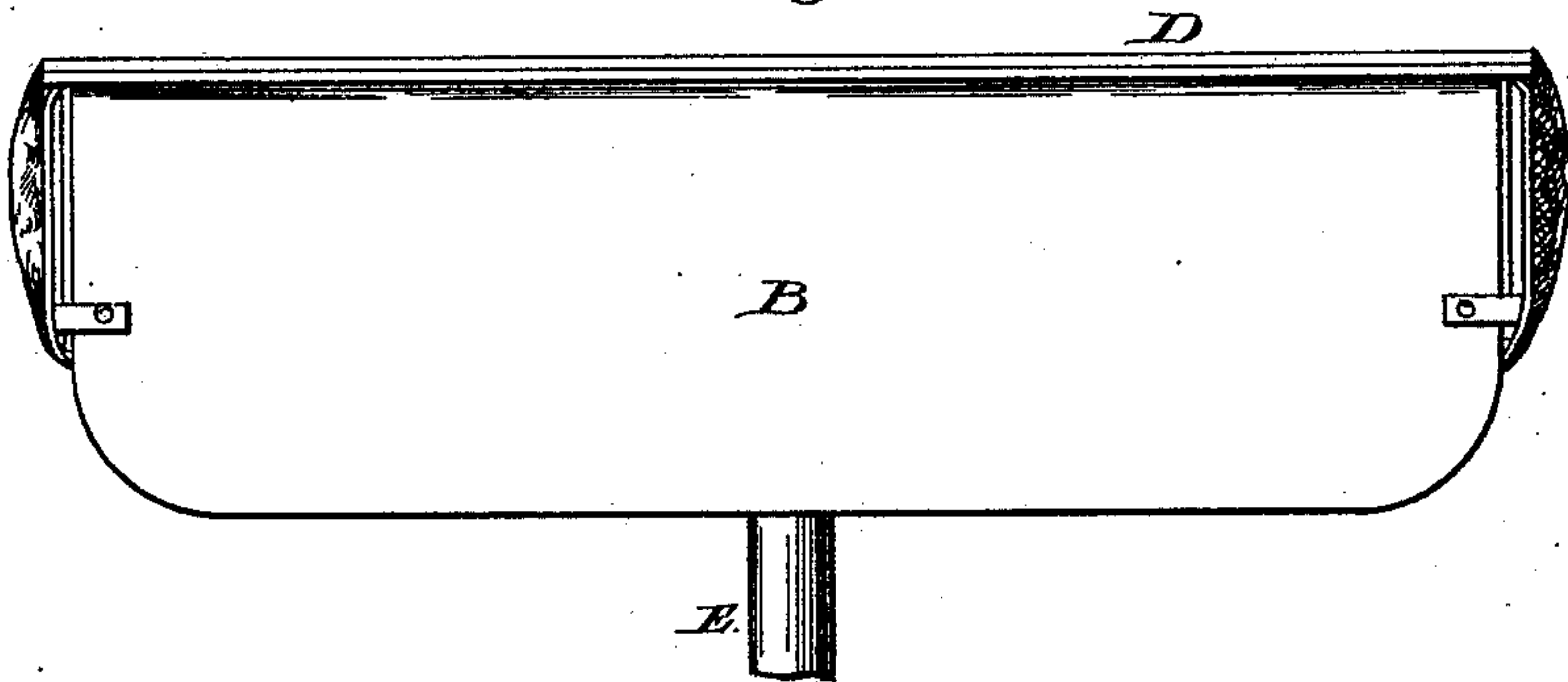


Fig. 3.

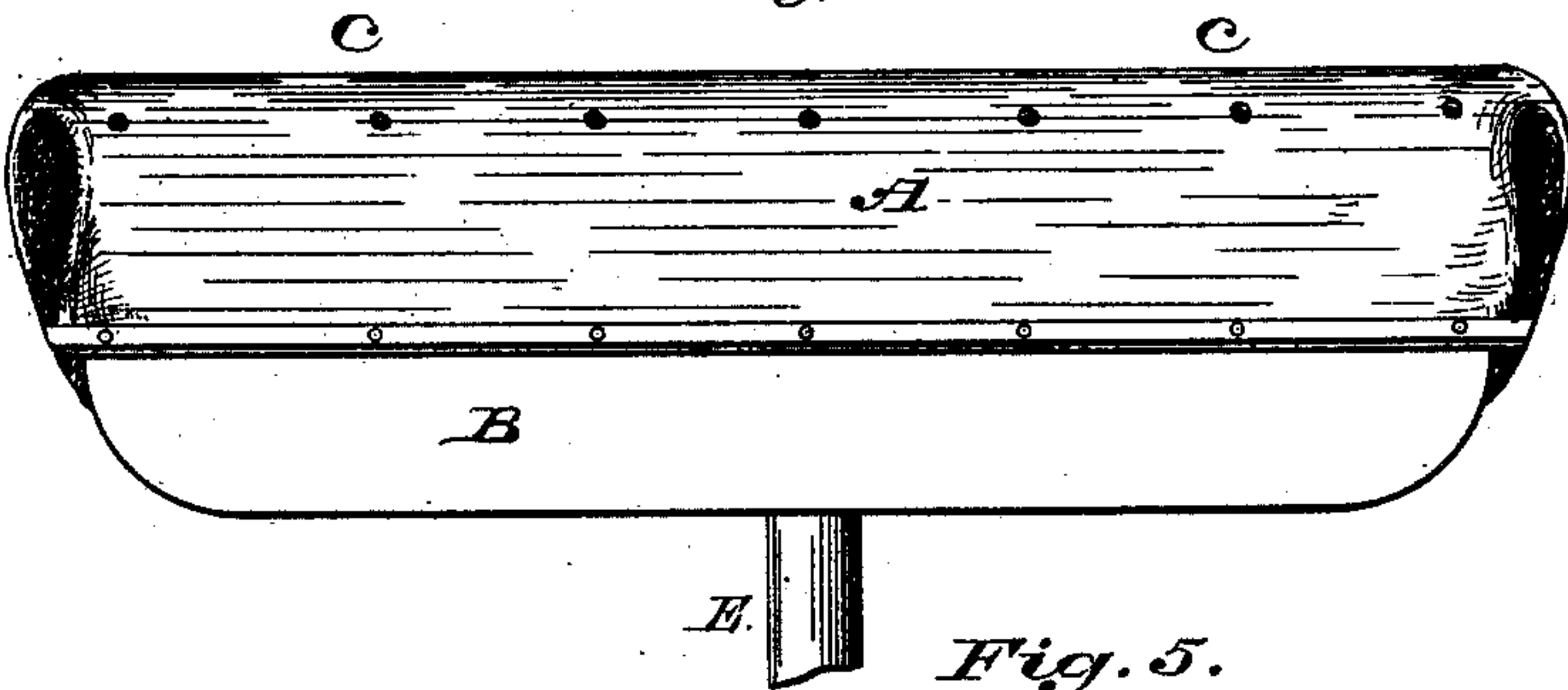


Fig. 5.

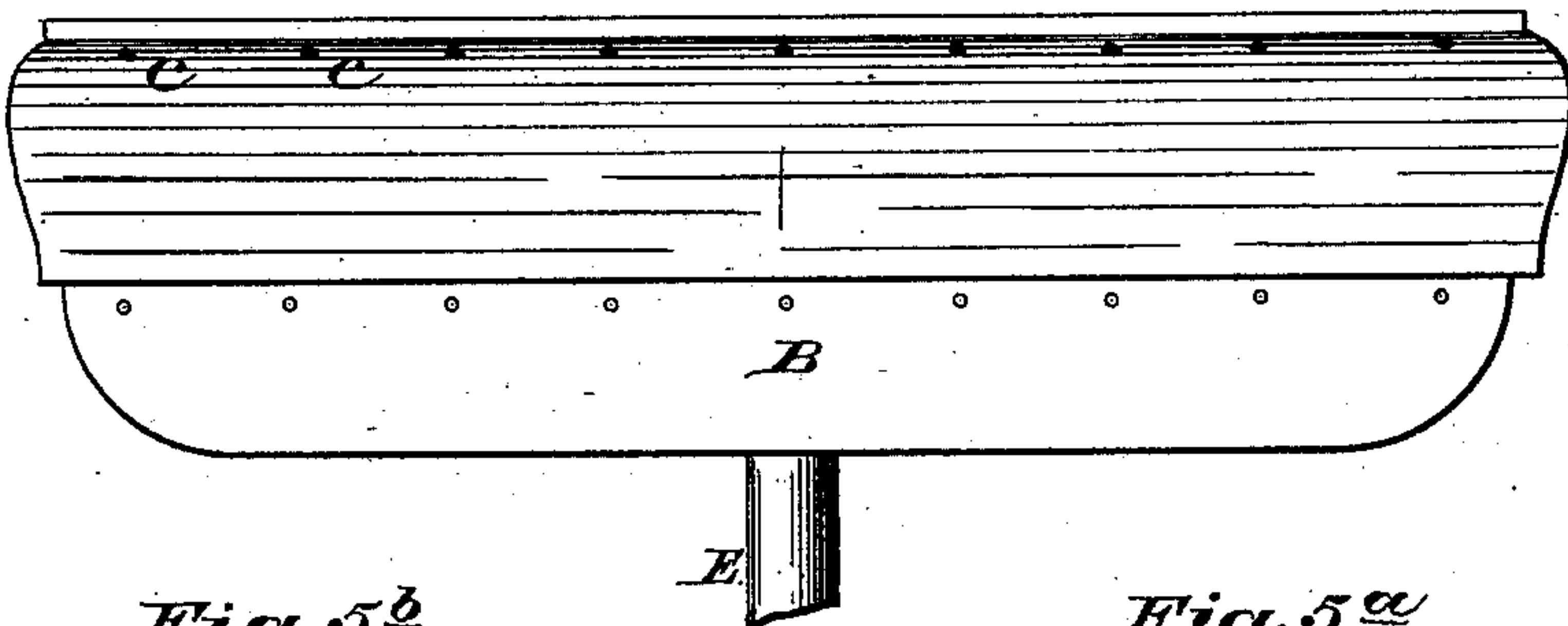


Fig. 5b

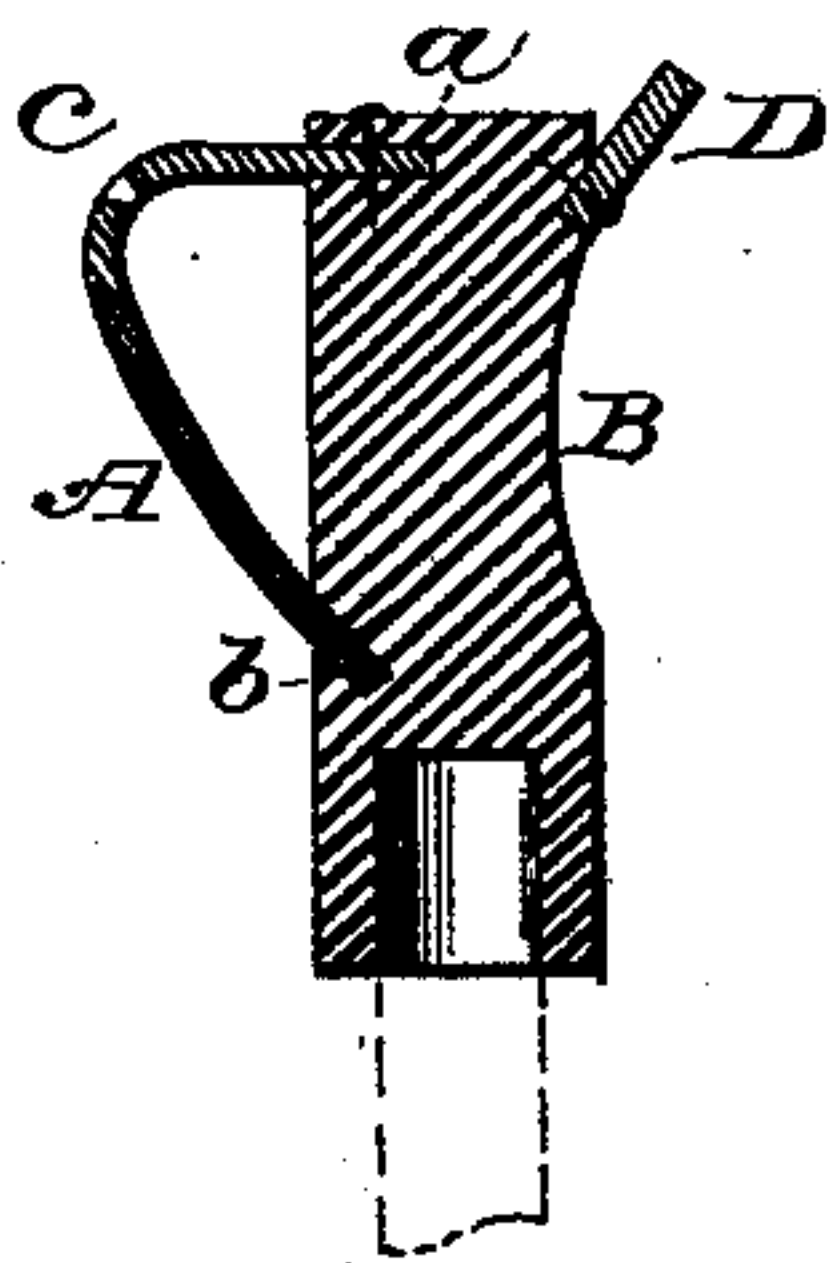
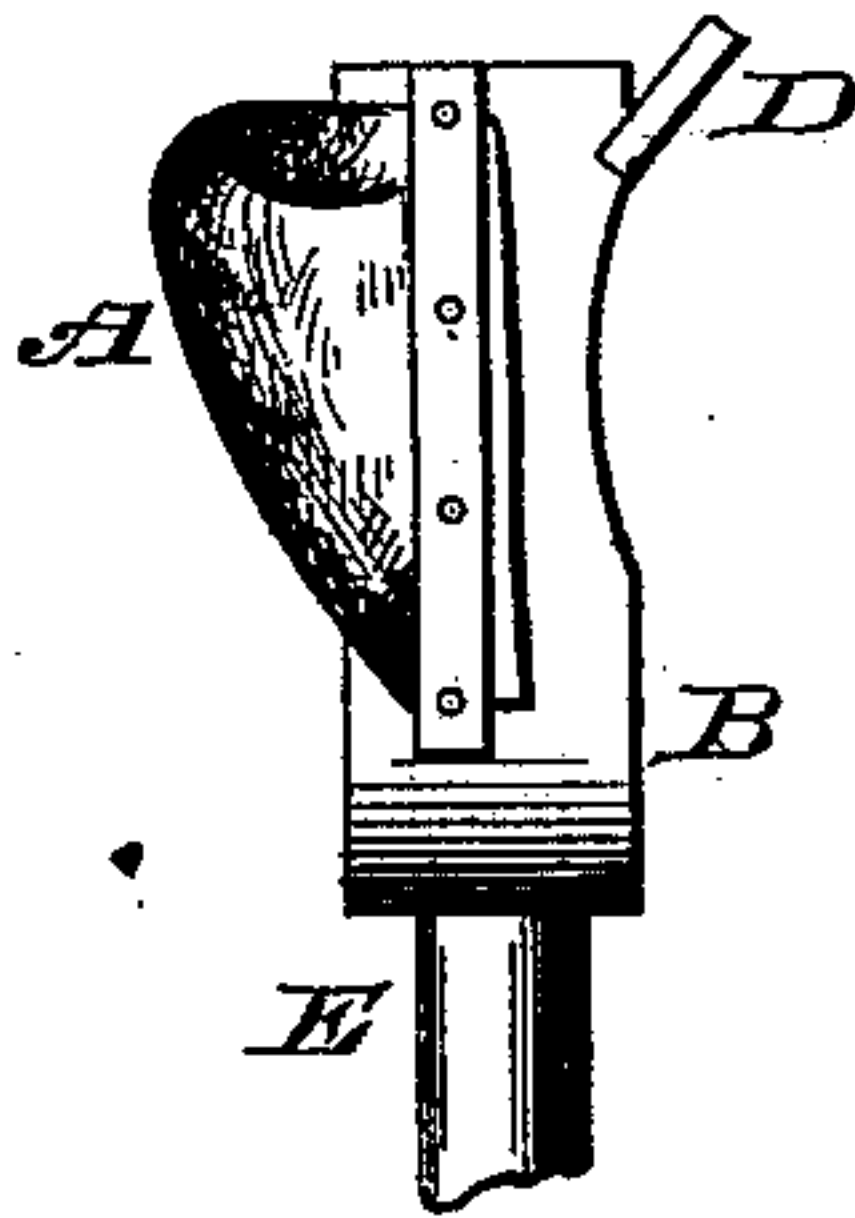


Fig. 5a



Witnesses:

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# UNITED STATES PATENT OFFICE.

GEORGE PIRRUNG, OF RAVENSWOOD, ILLINOIS.

## IMPROVEMENT IN WINDOW-WASHERS.

Specification forming part of Letters Patent No. **215,158**, dated May 6, 1879; application filed August 3, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE PIRRUNG, of Ravenswood, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Window Cleaners and Washers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figures 1 and 2 are side elevations of opposite sides of a device embodying my improvements. Figs. 3 and 4 are side elevations of a modification of the same. Figs. 1<sup>a</sup> and 2<sup>a</sup> are, respectively, a transverse sectional view and an end view of Figs. 1 and 2. Figs. 3<sup>a</sup> and 4<sup>a</sup> are, respectively, a transverse sectional view and an end view of Figs. 3 and 4; and Figs. 5, 5<sup>a</sup>, and 5<sup>b</sup> represent, respectively, a side view, end view, and a transverse sectional view of another modification of my invention.

The invention has relation to devices for cleaning windows; and it consists of the improvements in the construction of the same hereinafter fully described, and particularly pointed out in the claim.

Referring to the drawings, A represents a flexible water-bag, fastened to a wooden head or stock, B, by metal strips *c c* and nails passed through said strips and bag into the wood. C represents perforations or holes in the flexible bag for the ingress and egress of water. D is an india-rubber scraper, fastened to the head B in the same manner as the water-bag—that is, by a metal strip and nails. E is a handle, represented as broken off.

The modification shown in Figs. 3 and 4, 3<sup>a</sup>, and 4<sup>a</sup> shows the water-bag provided with two rows of holes, C, and the scraper is made of two strips of rubber, the lower one forming a part of the water-bag, the parts being attached to the wooden head in the same manner as before.

Figs. 5, 5<sup>a</sup>, and 5<sup>b</sup> show a modification of the wooden head, containing two grooves, *a*

and *b*, into which the edges of the flexible water-bag are introduced and secured.

The operation of the invention is as follows: Submerge the window-cleaner in water until the water-bag is filled. Then press it against the window-glass, holding it nearly vertical, so that when rubbed up and down upon the window the water will be ejected upon the surface of the glass, thereby moistening and removing the greater portion of the dirt and dust. By then turning the cleaner around and drawing the rubber scraper from top to bottom of the pane of glass, the water on the surface thereof and any dirt that may accidentally remain after the first operation will be removed.

I am aware that a perforated flexible distributor, having a closed or solid point, and perforated on the sides below the point, has been applied to mucilage and ink holders, as shown in the Patent No. 184,776, dated November 28, 1876; also, that an elastic water-holder with a small orifice in one end and closed at the other end by a plug, to which is attached a wiper of sponge or other fibrous or cellular material, has been used as a slate-cleaner, as shown in Patent No. 136,058, dated February 18, 1873. I am also aware that a scrub-brush having brushes at one edge and driers at the opposite edge, and a water-can at one side, has been used, as shown in the Patent No. 106,644, dated August 23, 1870; and I make no claim to either of these constructions.

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

As a new article of manufacture, the window-cleaning device herein described, consisting of the wooden head B, flexible water-bag A, and the scraper E, constructed as described.

GEORGE PIRRUNG.

Witnesses:

FELIX PIRRUNG.

JOHN S. RICK, Jr.