(No Model.)

J. F. BENTZ.

WINDOW WASHER.

No. 305,041. Patented Sept. 16, 1884.

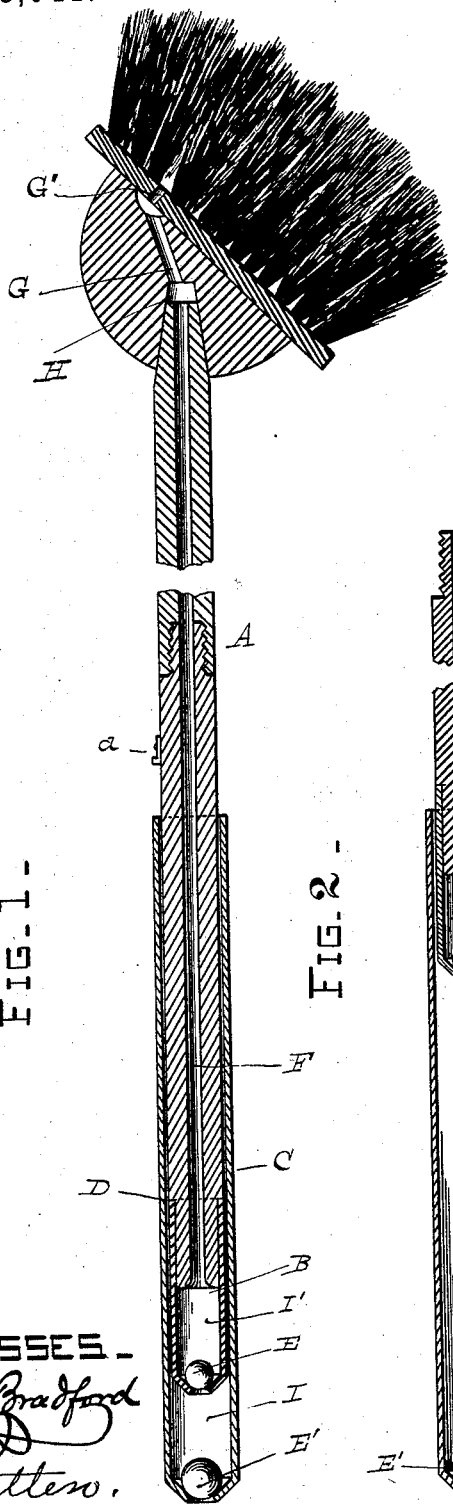

FIG. 1.

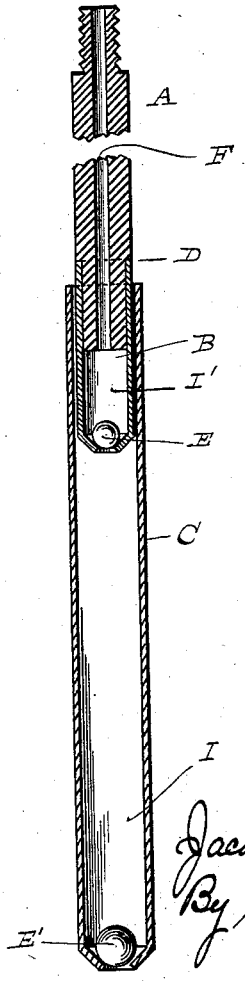

FIG. 2.

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JACOB F. BENTZ, OF SAN FRANCISCO, CALIFORNIA.

WINDOW-WASHER.

SPECIFICATION forming part of Letters Patent No. 305,041, dated September 16, 1884.

Application filed January 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, JACOB F. BENTZ, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a new and useful Window-Washer, of which the following is a specification.

The object of my invention is to provide an improved attachment to window-washing brushes, whereby the water employed is communicated to the brush in the desired volume and at the time required. I accomplish this object by the means illustrated in the accompanying drawings, in which—

Figure 1 is a central longitudinal sectional view of my improved window-washer with the plunger forced down. Fig. 2 is a longitudinal sectional view showing the plunger drawn out.

The handle of my window-washer is composed of hollow tubes put together in section, so as to be lengthened or shortened by the screw-couplings A. The lower section of the handle constitutes a plunger or piston, B, which fits into a pump-barrel, C, and the lower end of this plunger is provided with a short tubular chamber, I′, of the same diameter as that of the piston or plunger, while the upper end rests against joints D D flush with the surface of the piston. The lower end of this valve-chamber is made conical to form a valve-seat for the ball-valve E, and the lower end of the barrel C is also made conical to provide a seat for another or lower ball-valve, E′. It will thus be seen that the parts so designated are intended to act as a suction and force pump upon the lower portion of the handle. Each section of the handle is provided with a bore, F—say, three-eighths of an inch in diameter—and communicate with each other through the medium of the screw-couplings, as set forth, and which form water-tight joints. A sufficient number of these sections may be coupled together to reach the desired height of window from the ground. Within the back of the brush or sponge carrying pad is made holes or a chamber, G, and leading from these holes or chambers are distributing holes or perforations G′, which pass through the face of the pad-frame and distribute water to the brushes or sponge, while the hole H communicates with this chamber or the holes in the pad and receives the end of the upper section of the handle, as shown.

In operation the lower end of the lower section of the handle or pump portion is placed in a pail or reservoir of water and the plunger drawn upward, which raises the lower valve, E′, and admits water into the chamber I of the pump-barrel, when, by forcing down the plunger the upper valve, E, is lifted from its seat, when water will be admitted to the upper chamber, I′, and out through the bore in the handle to the brush-chamber and upon the brush. A stop, *a*, is fastened to the hollow plunger-rod, and by coming in contact with the top of the pump-barrel limits the stroke of the plunger.

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

In a window-washer, the combination of a brush-stock having chambers G H, the sectional hollow handle A B, connected by a screw-coupling, the lower part of the handle forming a plunger, and being provided with a tubular chamber, I′, and ball-valve E, and the pump-barrel C, having ball-valve E′, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

JACOB F. BENTZ. [L. S.]

Witnesses:
C. W. M. SMITH,
CHAS. E. KELLY.