(No Model.)

H. W. MÜNCH.

FOUNTAIN WINDOW CLEANER.

No. 422,429. Patented Mar. 4, 1890.

Fig: 1.

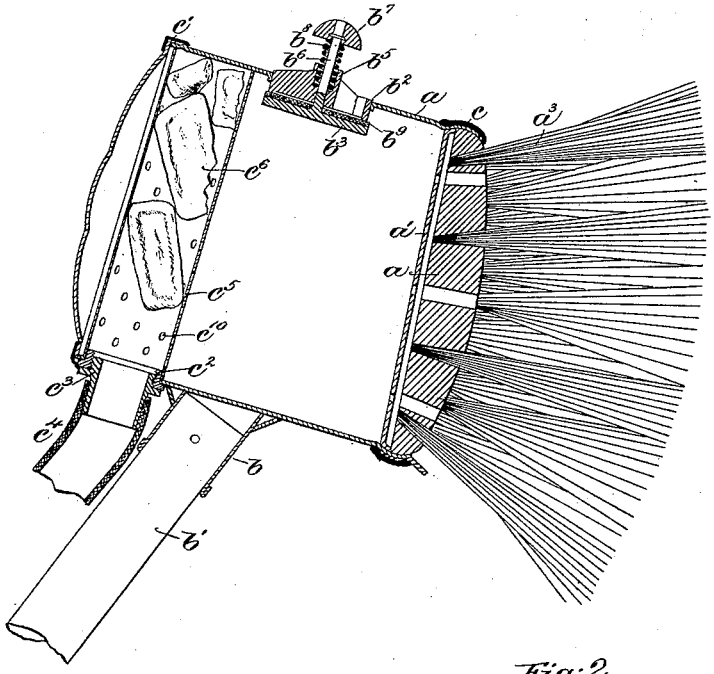

Fig: 2.

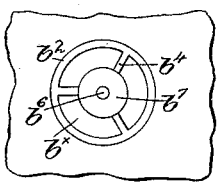

Fig: 3.

Witnesses.
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HENRY W. MÜNCH, OF SOMERVILLE, MASSACHUSETTS.

FOUNTAIN WINDOW-CLEANER.

SPECIFICATION forming part of Letters Patent No. 422,429, dated March 4, 1890.

Application filed March 9, 1889. Serial No. 302,621. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. MÜNCH, of Somerville, county of Middlesex, State of Massachusetts, have invented an Improvement in Fountain Window-Cleaners, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to fountain-brushes especially adapted for cleaning windows, &c., and is an improvement upon the fountain-brush shown and described in another application, Serial No. 273,793, filed by me May 14, 1888.

My present invention has for one of its objects to improve the construction of a fountain-brush, so that substantially all the water in a pail may be emptied therefrom into the reservoir or receptacle. I accomplish this new feature of my invention by placing the water-inlet valve substantially opposite the handle of the brush.

Another feature of my present invention consists in providing the reservoir or receptacle with a nozzle or nipple by which a hose may be attached to the said reservoir or receptacle, whereby a continuous supply of water may be forced through the perforated head of the said brush.

Other features of my invention will be pointed out in the claims at the end of this specification.

Figure 1 is a longitudinal section of a fountain-brush embodying my invention, and Figs. 2 and 3 details to be referred to.

The reservoir or receptacle a, provided with the perforated plate a' and perforated head a^2, to which the bristles a^3 are secured, may be substantially such as shown and described in my application referred to. The reservoir or receptacle a is provided on one side, as herein shown, with a tubular extension b, into which may be inserted the usual handle b', and the said receptacle on its side substantially diametrically opposite the said tubular extension is provided with an opening or port $b^\times$, (see Fig. 2,) herein shown as encircled by an annular ring b^2, forming within the reservoir or receptacle a valve-seat for a valve b^3 of suitable shape to conform to the opening in the reservoir a. The annular ring b^2 (see Fig. 2) has connected to it, as by radial arms b^4, a hub b^5, through which is extended the stem b^6 of the valve b^3, the said stem being extended beyond the hub b^5 and provided at its outer end, as herein shown, with a preferably rubber buffer b^7, the said valve-stem being encircled by a spring b^8, having one end bearing against the buffer b^7, and its other end located in a socket in the hub b^5. The valve b^3 on its upper face is preferably provided with a disk b^9, of suitable packing material, by which a water-tight joint is effected when the valve is closed. The reservoir or receptacle a is provided at its upper and lower edges or corners with preferably rubber bands c c', which act as fenders to prevent injury to the reservoir, and also to obviate breaking of the glass, if the said reservoir should come in contact therewith. The reservoir a is provided, preferably between the tubular extension b and the upper edge of the said reservoir, with a threaded socket c^2, soldered or otherwise secured to the said case and adapted to be engaged by a threaded nipple c^3 of a hose-pipe c^4, so that the water may be continuously supplied to the reservoir a, if desired. The reservoir a may be provided with a tubular holder c^5 substantially in line with the socket c^2 and adapted to contain soap c^6, the said tubular holder being provided with perforations c^{10}, through which the water may pass into the reservoir. Normally the water-inlet valve b^3 is closed, and if it is desired to continuously discharge the water through the perforated head a hose c^4 will be coupled, as described, to the reservoir, and the water admitted into the holder c^5 will pass into the reservoir through the perforations c^{10} in the said holder and carry with it portions of the soap in the form of a lather, the said water passing through the perforated plate a' and the holes in the perforated head a^2.

When it is desired to fill the reservoir a from a pail containing water, the socket c^2 will be closed by a threaded cap c^8, (see Fig. 3,) and in this case the reservoir will be inserted into the pail and the inlet-valve b^3 opened to admit water into it by contact of the buffer b^7 with the bottom of the pail, and when the reservoir is withdrawn from the pail, the pressure upon the buffer b^7 being

relieved, the spring b^6 will close the valve and the water in the reservoir will flow through the holes in the perforated head a^2. By placing the water-inlet valve b^3 on the side of the reservoir substantially opposite to the handle b' it will be seen that substantially all the water in the pail may be emptied therefrom into the reservoir a.

I claim—

1. In a fountain-brush, the combination, with a perforated head and bristles attached thereto, of a reservoir a, provided with a normally-closed water-inlet valve, and a socket c^2, adapted to be engaged by a hose-coupling, whereby the said brush may be intermittently or continuously filled, as desired, substantially as described.

2. In a fountain-brush, the combination, with a perforated head and bristles attached thereto, of a reservoir a, provided with a socket c^2, adapted to be engaged by a hose-coupling, and with a holder c^5, located within said reservoir to contain soap, substantially as described.

3. In a fountain-brush, the combination, with a perforated head and bristles attached thereto, of a reservoir a, provided with an extension b to receive a handle and having a port $b^\times$, substantially opposite said extension, a valve b^3, having a valve-stem, a hub b^5, secured to said reservoir and through which the valve-stem is extended, a buffer b^7 on said valve-stem, and a spring encircling said valve-stem outside said reservoir, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY W. MÜNCH.

Witnesses:

JAS. H. CHURCHILL,

FREDERICK L. EMERY.