

No. 865,351.

H. A. BIERLEY. PATENTED SEPT. 10, 1907.
FOUNTAIN BRUSH.
APPLICATION FILED DEC. 20, 1906.

Fig - 1 -

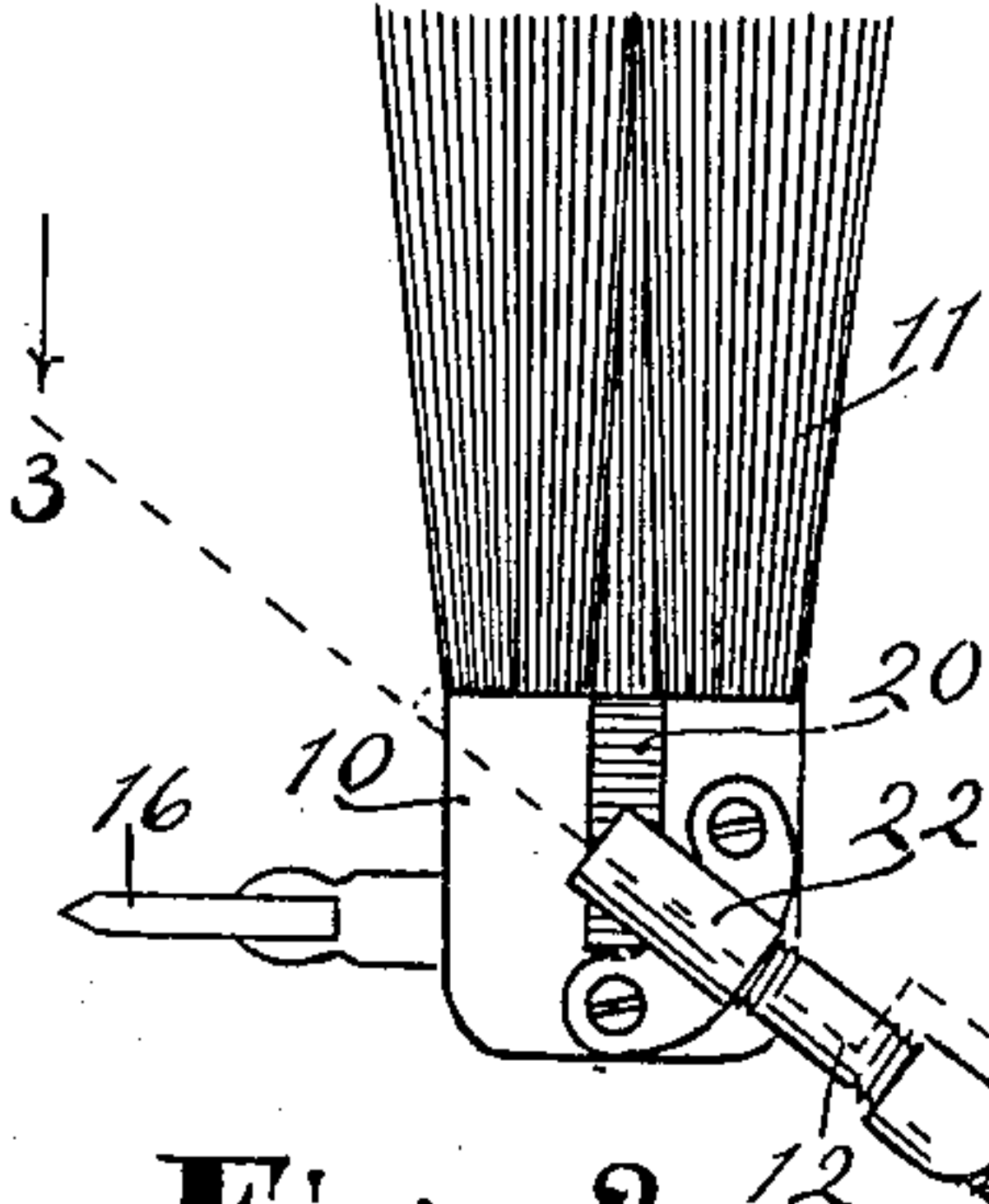


Fig - 2 -

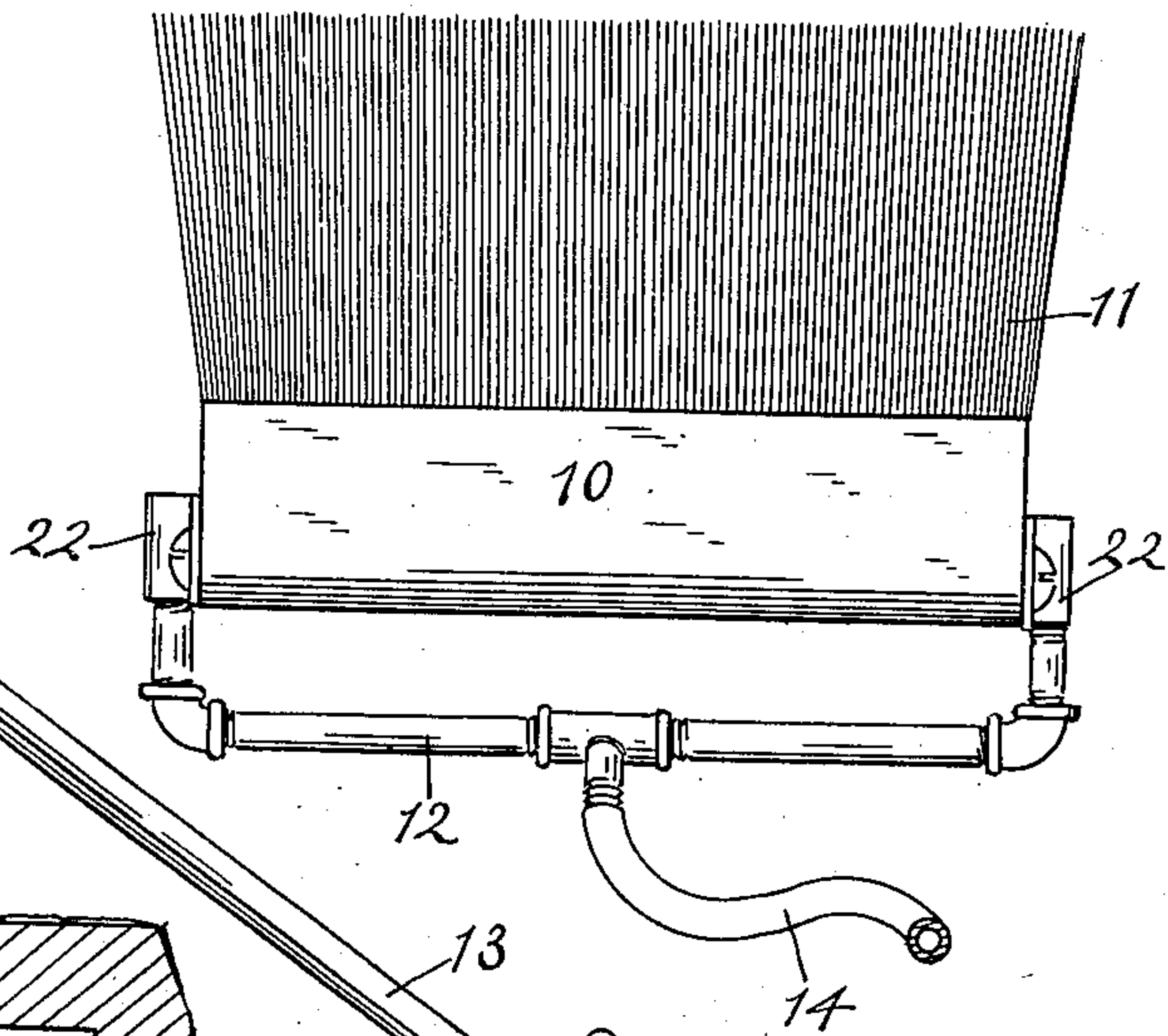


Fig - 3 -

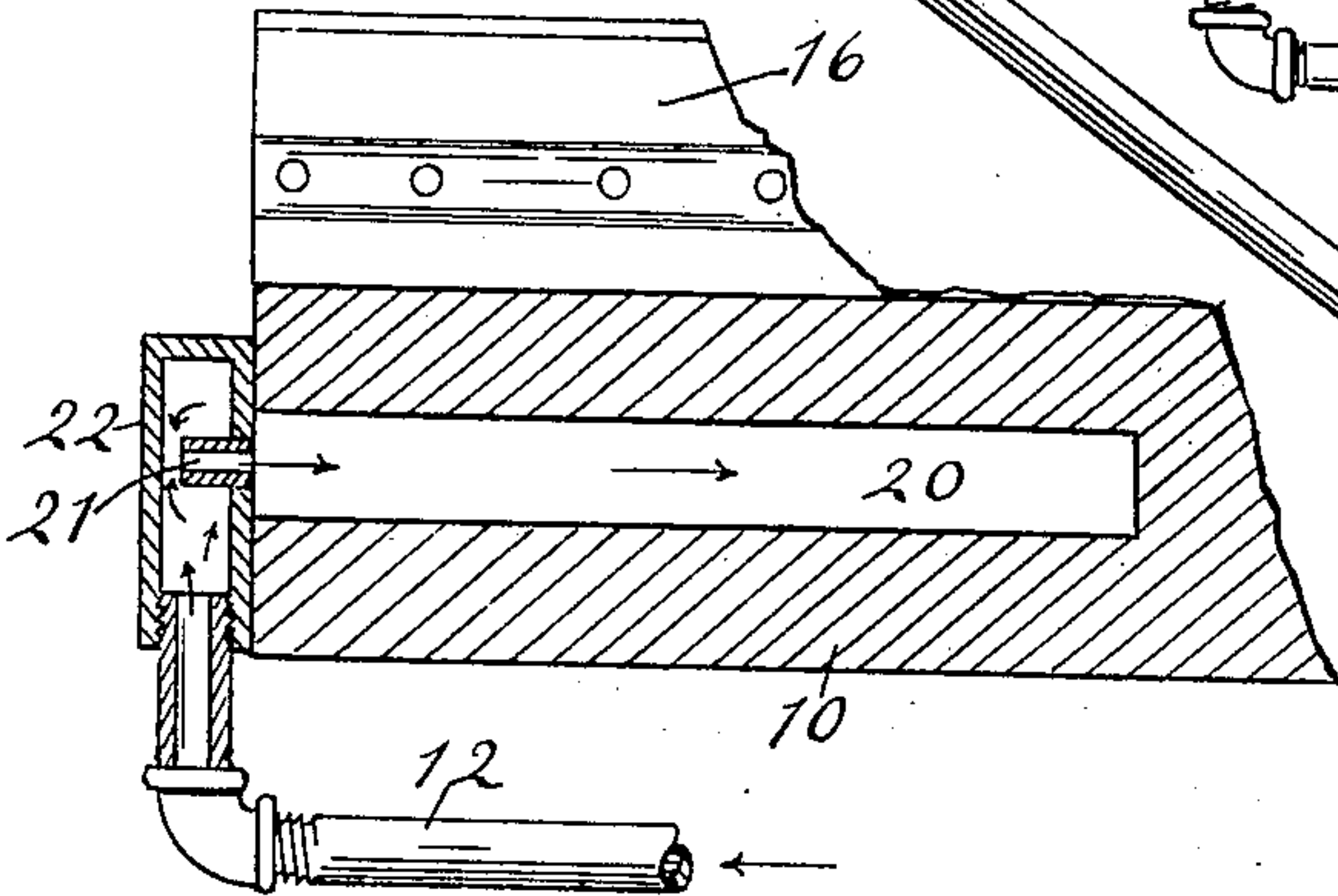
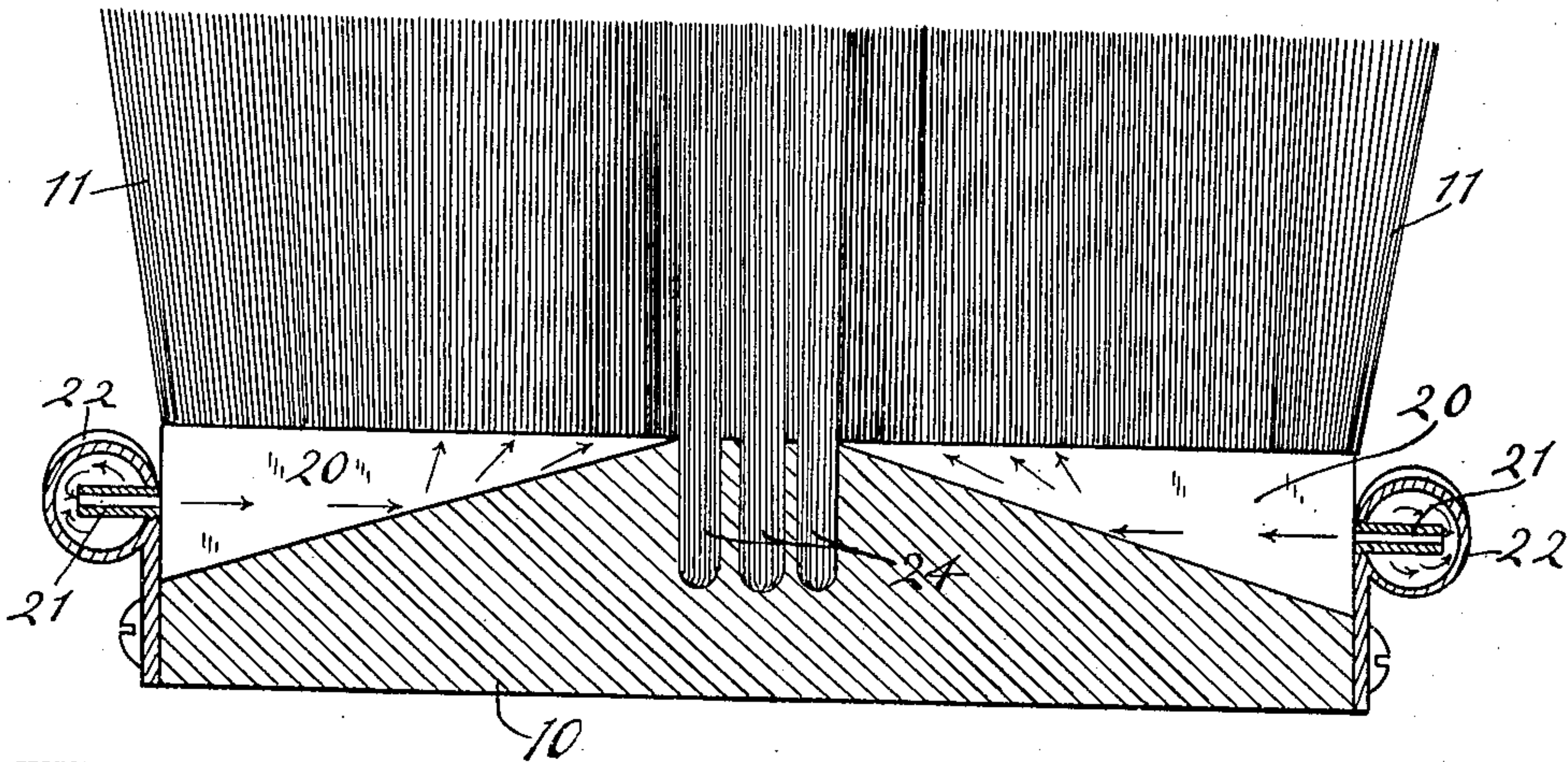


Fig - 4 -



WITNESSES:
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UNITED STATES PATENT OFFICE.

HENRY A. BIERLEY, OF PORTSMOUTH, OHIO.

FOUNTAIN-BRUSH.

No. 865,351.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed December 20, 1906. Serial No. 348,759.

To all whom it may concern:

Be it known that I, HENRY A. BIERLEY, of Portsmouth, county of Scioto, and State of Ohio, have invented a certain new and useful Fountain-Brush; and

5 I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

10 The object of this invention is to improve the construction and operation of fountain brushes.

The nature of the invention will be understood from the accompanying drawings and the following description and claims.

15 In the drawings Figure 1 is a side elevation of a device involving the features of my invention. Fig. 2 is a side elevation of the brush portion with parts removed and the hose broken away. Fig. 3 is a section on the line 3—3 of Fig. 1, through a portion of the brush head and adjacent parts. Fig. 4 is a longitudinal
20 central section through the brush.

25 There is a brush-head 10 with brush fibers 11 and a tubular brush-holder 12 connected with each end of the brush head, and a metal tube 13 connected centrally with said brush-holder 12. Either a stiff tube, as shown in Fig. 1, or a flexible tube 14, as shown in Fig. 2 may be used.

30 15 is a valve for shutting off the water that passes through the tube 13 and the tubular head 12 through the brush. A rubber 16 is attached to one side of the brush for drying a window or the like after it has been operated upon.

35 The brush is formed as shown in Fig. 4. The head has two longitudinally extending triangular recesses 20 that diminish in depth as they approach the middle of the brush and in fact do not extend entirely to the middle of the brush. A row of brush fibers are secured to the head along each side of the recesses 20 so that a space is left longitudinally of the head and brush for the discharge and distribution of water that is injected
40 in said recesses from small nozzles 21 that are secured in the water chambers 22 at each end of the brush head, and to which water is supplied from the ends of the brush holder 12. This longitudinal passage-way

through the brush is closed at the middle by the long fibers 24, as shown in Fig. 4, that make up the middle
45 of the brush. The water that is thus injected into the recesses 20 is distributed by the inclined surface of said recesses, and the distribution permitted by the space between the two side rows of brush fibers on either half of the brush. The portion of water, however,
50 that reaches the middle of the brush is ejected by the middle fibers 24, so that so far as supplying water to the brush is concerned, the brush is divided into two halves, and the water supplied to each half by the two ends of the brush-holder 12. The nozzle 21 is ar-
55 ranged as shown in order to inject the water longitudinally of the brush-head, and for that reason said nozzle extends for some distance into the water chamber 22, as shown, so as to give the stream of water the desired
60 direction.

What I claim as my invention and desire to secure by Letters Patent is:

1. A fountain brush including a head longitudinally recessed at each end, said recesses opening into the fibers of the brush, and means for injecting a stream of water into
65 said recesses substantially longitudinally of said brush.

2. A fountain brush including a head longitudinally recessed at each end, said recesses opening into the fibers of the brush, means for injecting a stream of water into said
70 recesses substantially longitudinally of the brush, said recesses tapering towards the middle of the brush to furnish an inclined back surface that deflects the water towards the fibers of the brush.

3. A fountain brush including a head longitudinally recessed at each end, said recesses opening into the fibers of the brush, means for injecting a stream of water into said
75 recesses substantially longitudinally of said brush, and brush fibers in the middle portion of the brush separating the recesses at each side of said middle fibers.

4. A fountain brush including a brush head recesses at each end with the recesses opening into the brush fibers, a
80 tubular brush holder mounted in connection with the brush head, means for supplying water to said tubular brush holder, and a nozzle in each end of the tubular brush holder that extends longitudinally of the brush.
85

In witness whereof, I have hereunto affixed my signature in the presence of the witnesses herein named.

HENRY A. BIERLEY.

Witnesses:

N. ALLEMONG,
H. B. MCCORD.