No. 741,733. PATENTED OCT. 20, 1903.

J. F. SPENCE.

BRUSH ATTACHMENT.

APPLICATION FILED FEB. 27, 1903.

NO MODEL.

Fig. 1.

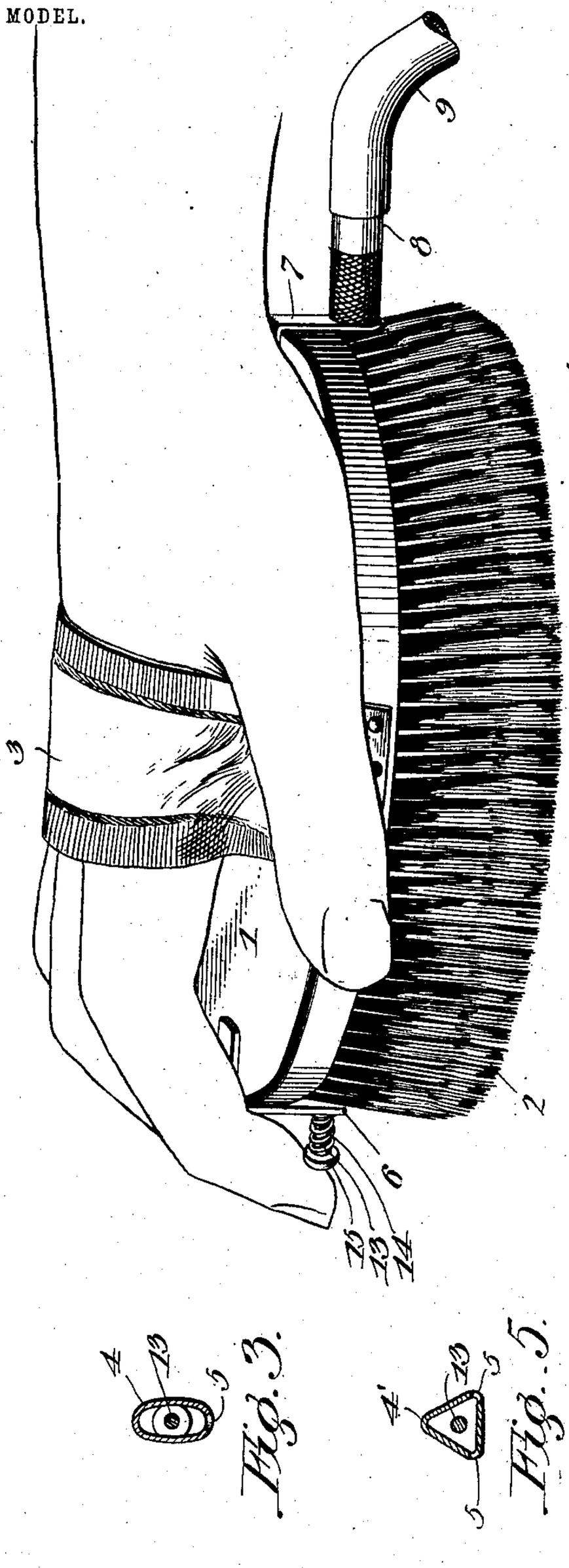

Fig. 4.

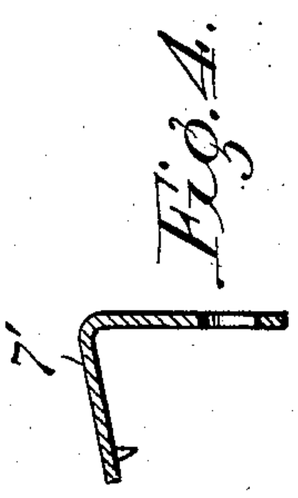

Fig. 2.

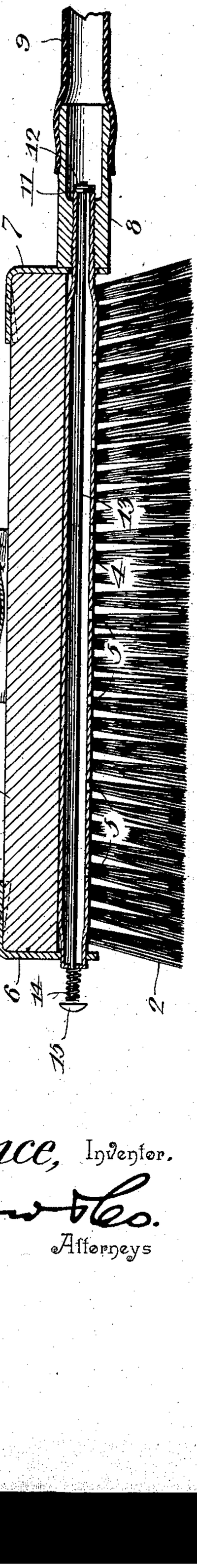

Fig. 3.

Fig. 5.

Witnesses
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No. 741,733. Patented October 20, 1903.

UNITED STATES PATENT OFFICE.

JAMES F. SPENCE, OF LIBERTY, NEBRASKA.

BRUSH ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 741,733, dated October 20, 1903.

Application filed February 27, 1903. Serial No. 145,389. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. SPENCE, a citizen of the United States, residing at Liberty, in the county of Gage and State of Nebraska, have invented a new and useful Brush Attachment, of which the following is a specification.

My invention relates to fountain attachments for brushes or equivalent distributing members, and has for its objects to provide a simple and efficient device of this character which may be readily applied to or removed from the distributing member and one in which the supply of water or the like to the distributing member will be under convenient and direct control of the operator.

To these ends the invention comprises the novel details of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of my improved device. Fig. 2 is a central longitudinal section through the same. Fig. 3 is a cross-section, on an enlarged scale, of the spraying-tube. Fig. 4 is a detailed sectional view of a modified form of clip. Fig. 5 is a similar view of a modified form of tube.

Referring to the drawings, 1 indicates a brush-block, having bristles 2 and a hand-strap 3. These parts may all be of the usual or any desired construction or material, inasmuch as they constitute no part of the present invention.

My improved attachment comprises a metal spraying-tube 4, preferably elliptical in cross-section, which extends centrally and longitudinally of the brush between the bristles and in contact with the lower face of the brush-block, the tube being provided along its outer face with a series of perforations 5, through which the liquid is discharged. The spraying-tube is detachably secured to the brush-block by means of end clips 6 7, preferably of sheet metal bent to L form in cross-section and each having a normally vertical arm, which is perforated at its lower end to receive one end of the spraying-tube, and with a normally horizontal finger, which overlies the back of the brush-block. The inner ends of the horizontal fingers may be provided with suitable teeth to bite into the material of the brush-block, though they are preferably made smooth for frictionally engaging the same, as herein illustrated. In this connection it is to be noted that the normally horizontal fingers of the clips may be bent downward, as illustrated at 7′ in Fig. 4, at an acute angle to the normally vertical arm in order to provide for the adjustment of the same for attachment to brushes having blocks of varying thicknesses. The clip 6 is preferably fixed to the end of the tube 4 in some suitable manner—such, for example, as soldering—while the clip 7 is removably mounted on the opposite end of the tube, which extends outward from the clip a suitable distance and is screw-threaded to receive a removable nipple 8, which in turn has mounted on its outer end the end of a rubber or other flexible pipe 9, adapted for attachment to the source of water-supply for delivering water to the brush. In this connection it is to be noted that the nipple serves the two-fold function of connecting the pipe 9 with the tube 4 and removably securing the clip onto the tube.

The threaded end of the tube 4 is beveled, as at 11, to form a seat for a valve 12, mounted upon the end of a valve-rod 13, which extends longitudinally through the tube 4 and for a suitable distance beyond the opposite end of the same and receives a normally expanded spring 14, which is mounted on the rod between the clip 6 and a head 15, associated in any suitable manner with the extremity of the rod. This spring serves the function of normally holding the valve to its seat in order to cut off the supply of water to the spraying-tube, and the valve may be forced from its seat against the action of the spring in order to permit the water to flow through the tube and be discharged from the openings 5 therein by the operator while holding the brush pressing with one finger upon the head 15.

From the foregoing construction it will be seen that the attachment may be readily applied to a brush by unscrewing the nipple 8, removing clip 7, engaging clip 6 over the end of the brush-block, with the tube 4 extending longitudinally of the same and embedded in the bristles thereof, replacing the clip 7 onto the tube, with its horizontal finger engaging over the other end of the block, and then screwing the nipple into the position to maintain the clip in place. Further, it will be

seen that the supply of water to the brush is under positive and convenient control of the operator and merely necessitates the rod 13 being manipulated by pressure of a finger upon the head in order to force the valve away from the seat to supply the water or to release the same and permit the spring to return the valve to its normal checking position.

It is to be understood that I do not limit or confine myself to the precise details herein shown and described, inasmuch as various minor changes may be made therein without departing from the spirit or scope of my invention. For example, while I have described the tube as being elliptical in cross-section it will be understood that the same may be triangular, as illustrated at 4′ in Fig. 5, or of other form, but is preferably of a form which will lie snugly between the rows of bristles without materially spreading the same.

Having thus described my invention, what I claim is—

1. The combination with a brush, of a fountain attachment therefor comprising a perforated tube, adjustable means for removably attaching the same to the brush, a flexible tube for conducting liquid to the perforated tube, a valve-rod housed within the perforated tube and projecting beyond the outer end of the same for manipulation by the operator, and a valve carried by the rod for controlling communication between the perforated and flexible tubes.

2. The combination with a distributing member, of a fountain attachment therefor, a perforated tube, means for attaching the same to the distributing member, a flexible tube for conducting liquid to the perforated tube, a valve for controlling communication between the flexible and perforated tubes, a valve-rod housed within the latter tube and projecting beyond the outer end of the same for manipulation by the operator, and a spring mounted on the valve-rod for returning the same to seating position of the valve.

3. The combination with a brush, of a fountain attachment therefor comprising a perforated tube, clips carried thereby for attaching the same to the brush, one of said clips being movable on the tube for disengagement from the brush, and means for maintaining the movable clip in engaging position.

4. The combination with a brush, of a fountain attachment therefor comprising a perforated tube, clips carried thereby for attaching the same to the brush, one of said clips being movable on the tube for disengagement from the brush, a flexible pipe for conducting liquid to the tube, a nipple for attaching the pipe to the tube, said nipple engaging the movable clip for maintaining the same normally in engaging position.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES F. SPENCE.

Witnesses:
J. H. JOCHUM, Jr.,
D. W. CORKINS.