

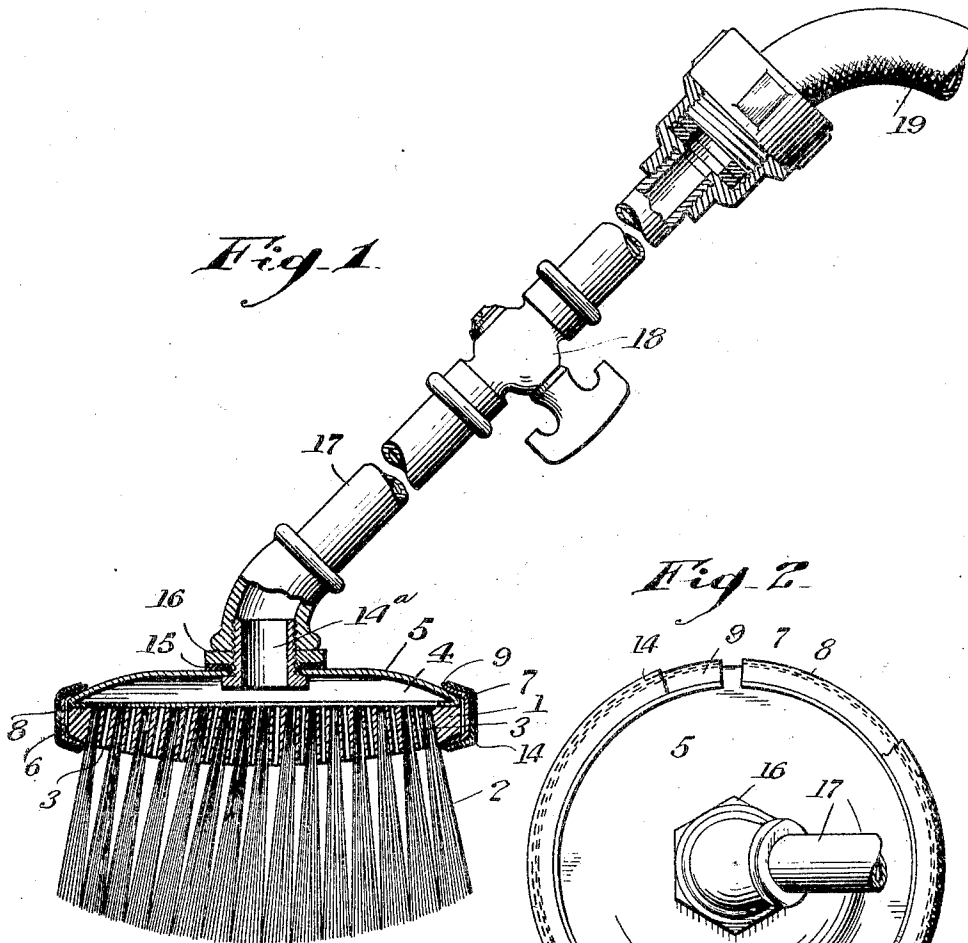
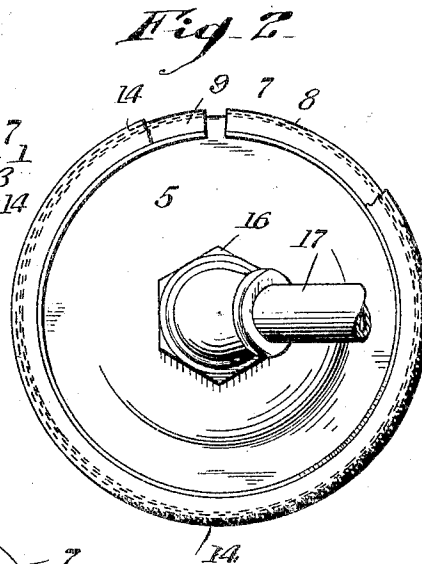
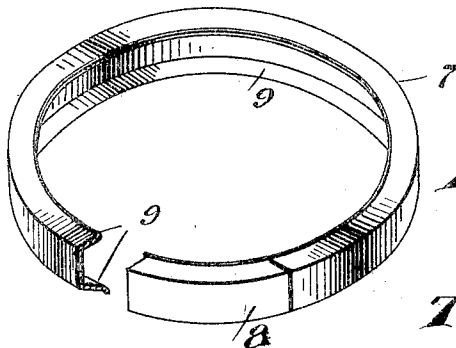
T. C. INGRAM.
FOUNTAIN BRUSH.

APPLICATION FILED SEPT. 12, 1913.

Patented Mar. 3, 1914.

2 SHEETS-SHEET 1.

1,089,220.



Witnesses

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Fig 4

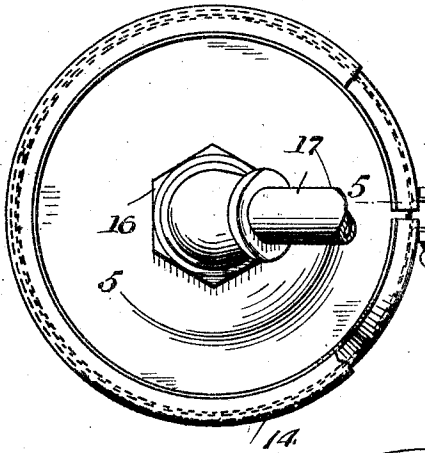


Fig 5

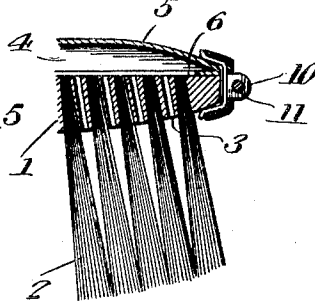


Fig 6

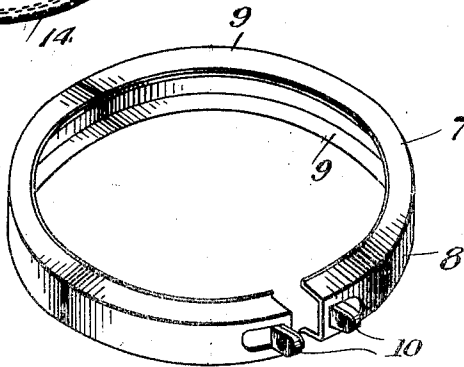


Fig 7

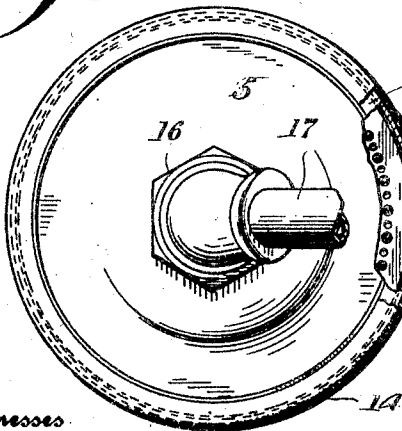
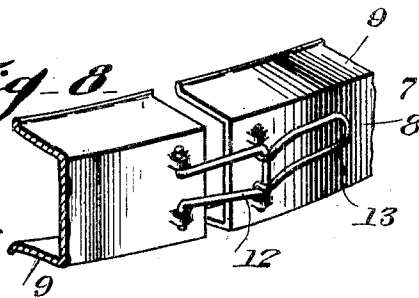


Fig 8



Witnesses

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UNITED STATES PATENT OFFICE.

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FOUNTAIN-BRUSH.

1,089,220.

Specification of Letters Patent.

Patented Mar. 3, 1914.

Application filed September 12, 1913. Serial No. 789,538.

To all whom it may concern:

Be it known that I, THOMAS C. INGRAM, a citizen of Canada, residing at Toronto, in the Province of Ontario and Dominion of Canada, have invented new and useful Improvements in Fountain-Brushes, of which the following is a specification.

This invention is designed to provide an improved form of brush of the type embodying a head provided with bristles or brush elements and having a chamber from which a plurality of small passages lead to convey the liquid from the chamber to the bristles, said brush having a hollow handle which connects with the chamber and with a source of supply of water, a rubber tube connecting the handle with the outlet of the water supply pipe and the handle being provided in its length with a valve whereby the flow of water may be cut off or regulated to suit the nature of the work.

The invention specifically relates to the particular construction of the brush and to the means whereby the head of the brush is connected to the back, whereby said back may be removed from the head at will.

The invention further relates to a clamp of peculiar form whereby the back of the brush is secured to the head and to the means whereby the clamp is held in the required position.

The invention consists of the novel features, details of construction and combination of parts, which hereinafter will be more particularly set forth, illustrated in the accompanying drawings, and subsequently claimed.

Referring to the drawings, forming a part of the specification, Figure 1 is a side view of a fountain brush embodying the invention, the brush and coupling being in section and parts of the hollow handle being broken away. Fig. 2 is a top plan view of the brush, showing a part of the handle and having a portion of the clamp broken away. Fig. 3 is a perspective view of the clamp and covering, a portion of the latter being broken away. Fig. 4 is a view similar to Fig. 2, showing a modified form of clamp. Fig. 5 is a sectional detail on the line 5-5 of Fig. 4. Fig. 6 is a perspective view of the modified form of clamp illustrated in Fig. 4. Fig. 7 is a view similar to Fig. 2, showing a further modified form of clamp. Fig. 8 is a detail perspective view of the se-

curing means between the ends of the clamp shown in Fig. 7.

Corresponding and like parts are referred to in the following description, and indicated in all the views of the drawings, by the same reference characters.

The brush comprises a head 1 and bristles or brush elements 2, the latter being secured in the head in any manner. A plurality of openings are formed in the head 1 and constitute passages for the water or other liquid to be supplied to the bristles or brush elements 2. A chamber 4 is provided upon the head of the brush and the passages 3 lead therefrom so as to deliver the water or other liquid into the spaces formed between the bristles or brush elements 2. A plate 5 is secured to the head 1 of the brush, the chamber 4 being formed between such plate 5 and head 1. The plate 5 is in the nature of a back and its marginal portion is deflected so as to touch the outer or marginal portion of the head 1. The space formed between the back 5 and head 1 constitutes the chamber 4. The back 5 is preferably of concavo-convex form and is arranged with the hollow side facing the head 1. The plate 5 has an inturned portion 6 at its outer edge which obtains an extended bearing upon the marginal portion of the head 1 so as to provide a substantial support for the back 5 and insure a close fit between the edge portions of the back and head. As shown most clearly in Figs. 1 and 5 the edge portions of the back 5 and head 1 converge outwardly, which is of advantage since it admits of the clamp exerting a wedge action upon the parts 1 and 5 to draw them into close engagement to insure the formation of a tight joint to prevent any leakage.

The clamp 7 is of a form to encircle the outer edge portions of the back 5 and head 1 and comprises a band 8 and flanges 9, the latter extending inwardly from the edges of the band 8 and flaring to correspond with the convergence of the edge portions of the back 5 and head 1, whereby said parts are drawn together by a wedging action when the clamp is in position. The brush may have any outline, the circular form shown being preferred. It is to be understood that the clamp corresponds with the outline of the brush and as indicated is of circular form. The form of clamp illus-

trated in Figs. 2 and 3 is of a nature to act solely by a spring tendency which causes the clamp to automatically contract about the edge portions of the back 5 and head 1.

5 When placing the spring clamp in position or removing the same from the brush the clamp is expanded by separating the ends. When the clamp is in position it contracts by spring action and grips the parts 1 and 10 5. In the form of clamp shown in Figs. 4, 5 and 6 apertured lugs 10 project outwardly from the end portions of the clamp. A clamp screw 11 is fitted in the openings of the lugs 10 and receives a nut upon one end 15 which engages one of the lugs 10. The lugs 10 are partly cut from the band 8 and are pressed outwardly therefrom, as shown most clearly in Fig. 6.

In the modification shown in Figs. 7 and 20 8 a link 12 is pivotally connected to one end of the clamp and a lever 13 is pivotally connected to the opposite end of the clamp and is adapted to engage the link 12 and draw the ends of the clamp together, whereby 25 such clamp is contracted and caused to grip the edge portions of the head and back of the brush. The link 12 is of loop form, as is also the lever 13, the latter being bent intermediate of its ends to provide a hook, 30 which latter engages the closed end of the link 12 to draw the ends of the clamp together when the free end of the lever 13 is pressed toward the clamp. A covering 14 is adapted to inclose the clamp and extend 35 over the space formed between the ends of the clamp and the fastening means, such as the parts 12 and 13 and 10 and 11. This covering is shown most clearly in Figs. 1 and 7 and preferably consists of an elastic 40 band, such as rubber.

A coupling end 14^a is secured to the back 5 of the brush and consists of a bushing having its inner end flanged and arranged with the flange engaging the inner side of 45 the back 5, the bushing being externally threaded and passing through an opening formed in the back 5 and receiving a washer 15 and clamp nut 16. A hollow handle 17

is threaded to the outer end of the bushing 14 and is provided in its length with a cock 50 18 by means of which the flow of water through the handle may be regulated or cut off. A flexible tube 19, such as a hose pipe is adapted to be coupled to the end of the hollow handle 17 and leads from a water 55 supply, whereby the brush is kept moist when used for washing surfaces such as windows, vehicle bodies and the like.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the 65 invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when de- 70 sired as are within the scope of the invention as claimed.

Having thus described the invention what is claimed as new, is:—

A fountain brush comprising a head pro- 75 vided with bristles and a plurality of passages, a back placed against the head and inclosing a space which constitutes a chamber, the outer edge portions of the back and head being outwardly converged, means for 80 supplying water to the chamber, a clamp for securing the back to the head, such clamp comprising a band and flared flanges which engage the converged edge portions of the back and head of the brush to bring them 85 together by a wedging action, said clamp consisting of a split band, and means for drawing the separated ends of the band together and securing them in the adjusted position. 90

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS C. INGRAM.

Witnesses:

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