M. WINGERS.

FOUNTAIN BRUSH.

APPLICATION FILED DEC. 20, 1917.

1,277,805. Patented Sept. 3, 1918.

2 SHEETS—SHEET 1.

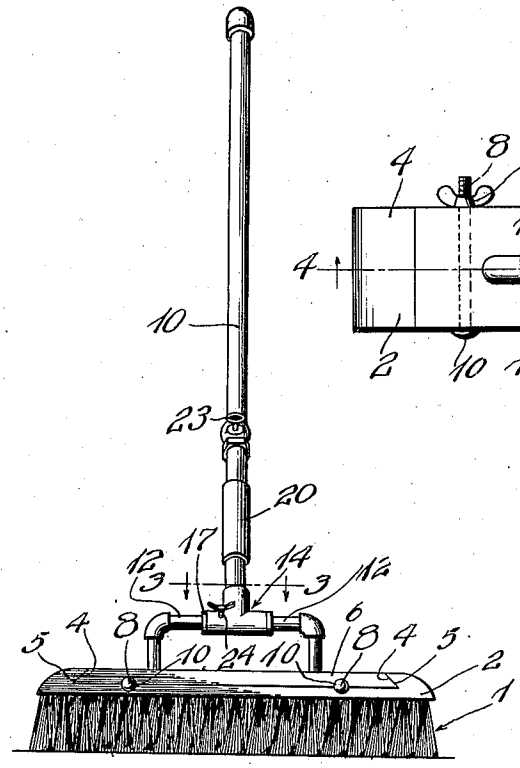


Fig. 1.

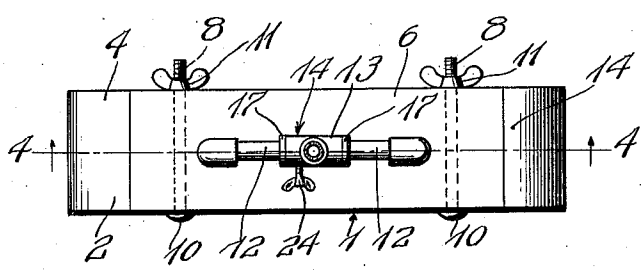


Fig. 3.

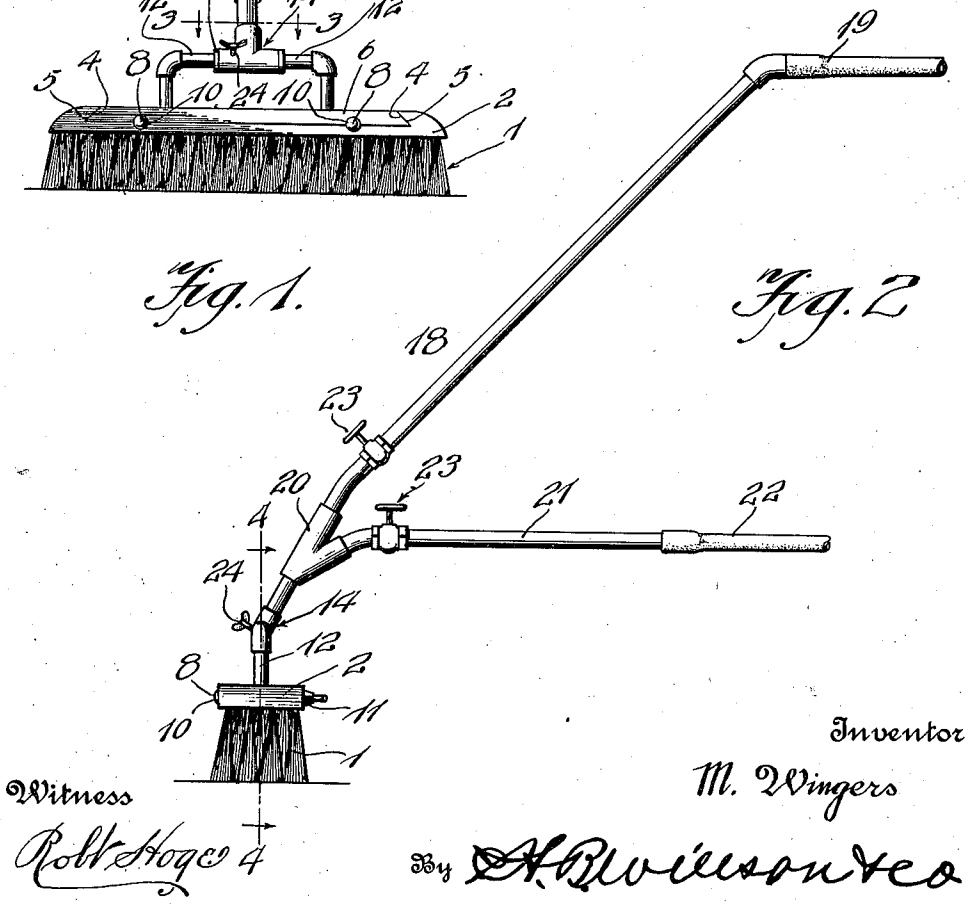


Fig. 2.

Witness

Robt. Hoge

Inventor

M. Wingers

By A. B. Williamson & Co

Attorneys

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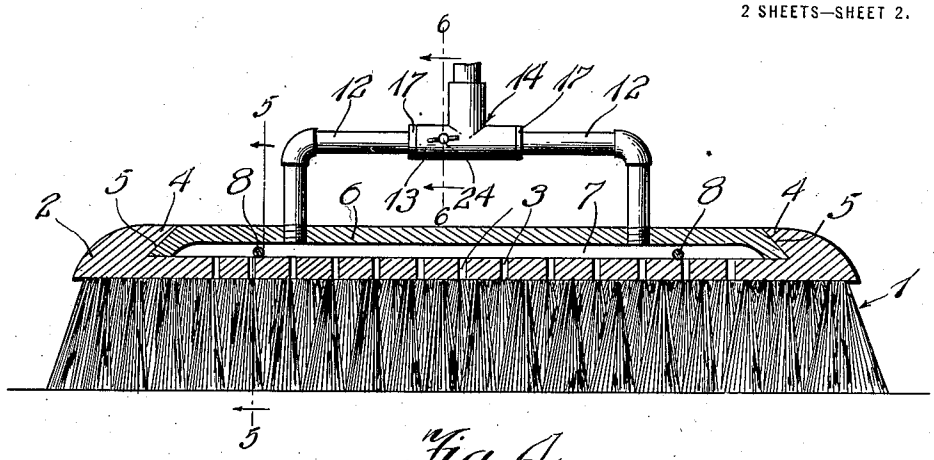


Fig. 4.

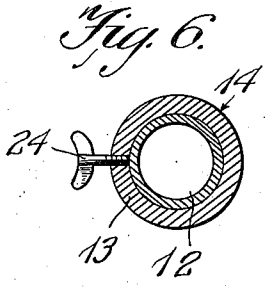


Fig. 6.

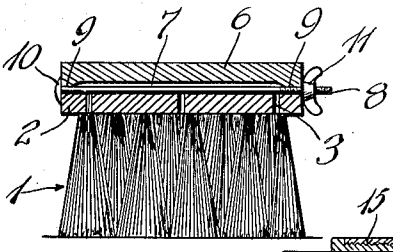


Fig. 5.

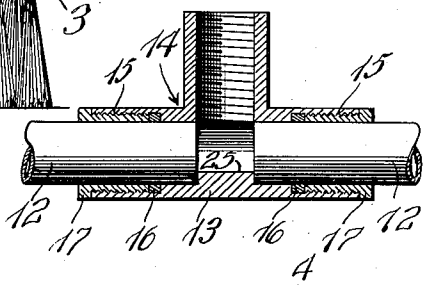


Fig. 7.

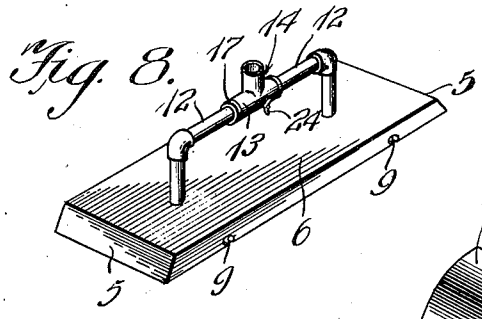


Fig. 8.

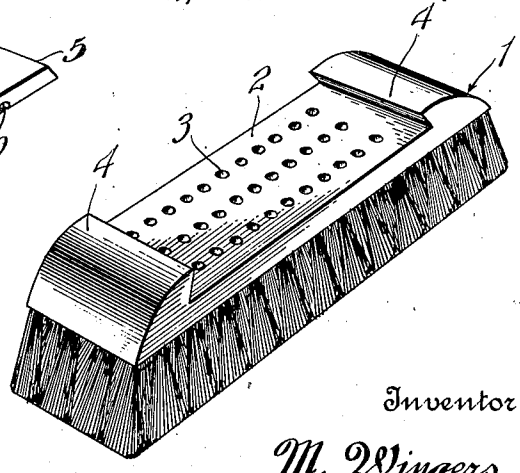


Fig. 9.

Witness
Robt. Hoge

Inventor
M. Wingers
By H. B. Wilson & Co
Attorneys

UNITED STATES PATENT OFFICE.

MATHIAS WINGERS, OF NEW HOLSTEIN, WISCONSIN.

FOUNTAIN-BRUSH.

1,277,805. Specification of Letters Patent. Patented Sept. 3, 1918.

Application filed December 20, 1917. Serial No. 208,091.

To all whom it may concern:

Be it known that I, MATHIAS WINGERS, a citizen of the United States, residing at New Holstein, in the county of Calumet and State of Wisconsin, have invented certain new and useful Improvements in Fountain-Brushes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide an extremely simple and inexpensive, yet a highly efficient and durable fountain brush constructed for using either water or steam as occasion may demand.

With the foregoing general object in view, the invention resides in the novel features of construction and unique combination of parts to be hereinafter fully described and claimed, the descriptive matter being supplemented by the accompanying drawings which form a part of this specification and in which:—

Figure 1 is a front elevation of the improved brush;

Fig. 2 is a side elevation thereof;

Fig. 3 is a horizontal section on the plane of the line 3—3 of Fig. 1;

Fig. 4 is a vertical section on the plane designated by the line 4—4 of Fig. 2;

Figs. 5 and 6 are vertical transverse sections on the planes indicated by the lines 5—5 and 6—6 respectively of Fig. 4;

Fig. 7 is an enlarged detail vertical section through the T-coupling which connects the hollow handle with the brush;

Fig. 8 is a perspective view of the plate carried by the brush head; and

Fig. 9 is a perspective view of the brush.

In the drawings above briefly described, the numeral 1 designates a suitable brush having an elongated head 2 formed with perforations 3 for supplying a liquid to the brush bristles. The ends of the head 2 are provided with upstanding undercut flanges 4 which extend throughout the width of the brush head, said flanges coacting with the beveled ends 5 of a plate 6 which rests on the head 2, the lower side of said plate 6 being hollowed out to form a dome 7 for supplying steam or water to the perforations 3. The side edges of the head or back 2 and the plate 6 are flush as shown most clearly in Fig. 4 and in order to prevent relative movement of these parts, transverse bolts 8 are provided, said bolts passing through the openings 9 of the plate 6 as shown. The heads 10 and nuts 11 of the bolts 8 contact with the flush edges of the brush back 2 and the plate 6 so that possible relative movement of these parts transversely is prevented, relative longitudinal movement being obstructed by the flanges 4.

A pair of inverted L-shaped pipes 12 rise from longitudinally spaced portions of the plate 6, the horizontal arms of said pipes extending toward each other and being alined. Said horizontal arms of the pipes 12 project into the opposite ends of the head 13 of a T-coupling 14, the ends of said head being counterbored at 15 and receiving packing rings 16. Sleeves of bushings 17 surround the horizontal arms of the pipes 12 and are threaded in the counterbores 15 to compress the packing rings 16 into fluid tight contact with said arms. This construction prevents the leakage of water or steam, yet permits turning of the T-coupling 14 upon the pipes 12 to adjust the handle 18 vertically, said handle being threaded into the stem or shank of the coupling.

Handle 18 is formed of a pipe through which water may be conducted by a hose 19, said handle including a Y-coupling 20 by means of which a steam supply pipe 21 is connected to the device. Steam is supplied to pipe 21 by a hose 22 and suitable valves 23 are provided to either permit the use of steam or water, or a mixture of the two as occasion may demand.

By the mounting of the T-coupling 14, it will be obvious that the angular relation of the handle 18 with the brush may be varied at will, and in order to hold said handle in adjusted position, a set screw 24 is threaded through the head 13 of coupling 14, said screw contacting with the horizontal arm of one of the pipes 12 as shown clearly in Fig. 6. To prevent endwise shifting of the coupling 14 on the two pipes 12, the head 13 of said coupling is provided with an internal lug 25 which abuts the ends of said pipes as detailed in Fig. 7.

From the foregoing, taken in connection with the accompanying drawings, it will be obvious that although my invention is of extremely simple and inexpensive nature, it will be highly efficient and durable, particular emphasis being laid upon the novel

construction for permitting adjustment of the handle 18, and upon the novel manner of attaching the brush head to the plate 6.

Since probably the best results are obtained from the several specific details shown and described, these details are preferably employed, but I wish it understood that within the scope of the invention as claimed, numerous minor changes may well be made.

I claim:

1. In combination, a brush having a perforated back and having undercut flanges rising from and extending across its ends, a plate contacting with the top of said head and having beveled ends snugly engaging said undercut flanges, the side edges of said head and plate being flush, bolts extending transversely of said plate, the heads and nuts of which contact with the flush edges of said brush head and said plate to hold them against relative movement, said plate having its lower side hollowed out to form a dome for supplying liquid to the perforations in said head, and a liquid supply pipe for said dome, said pipe being secured to said plate and forming a handle for the brush.

2. In combination, a brush head, a pair of inverted L-shaped pipes rising from said brush head with their horizontal arms extending toward each other and alined, a T-coupling into whose head said arms project, a hollow liquid supply handle secured in the stem of said T-coupling, said arms forming journals for said coupling whereby to adjust said handle, and a set screw threaded through the head of said coupling and bearing against one of said arms to secure said coupling in adjusted position.

3. In combination, a brush head, a pair of inverted L-shaped pipes rising from said brush head with their horizontal arms extending toward each other and alined, a T-coupling into whose head said horizontal arms extend, the ends of said head being counterbored, packing rings in said counterbores, sleeves threaded in the counterbores and engaging said packing rings to force them into fluid-tight contact with said arms, a hollow liquid supply handle secured in the stem of said T-coupling, said arms forming journals for said coupling whereby said handle may be adjusted vertically, a set screw threaded through the head of said coupling and engaging one of said arms to hold said coupling in adjusted position, and a lug in the head of said T-coupling abutting the inner ends of said arms to prevent shifting of said coupling.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MATHIAS WINGERS.

Witnesses:
WM. J. PAULSEN,
M. CECILIA BOSSHARDT.