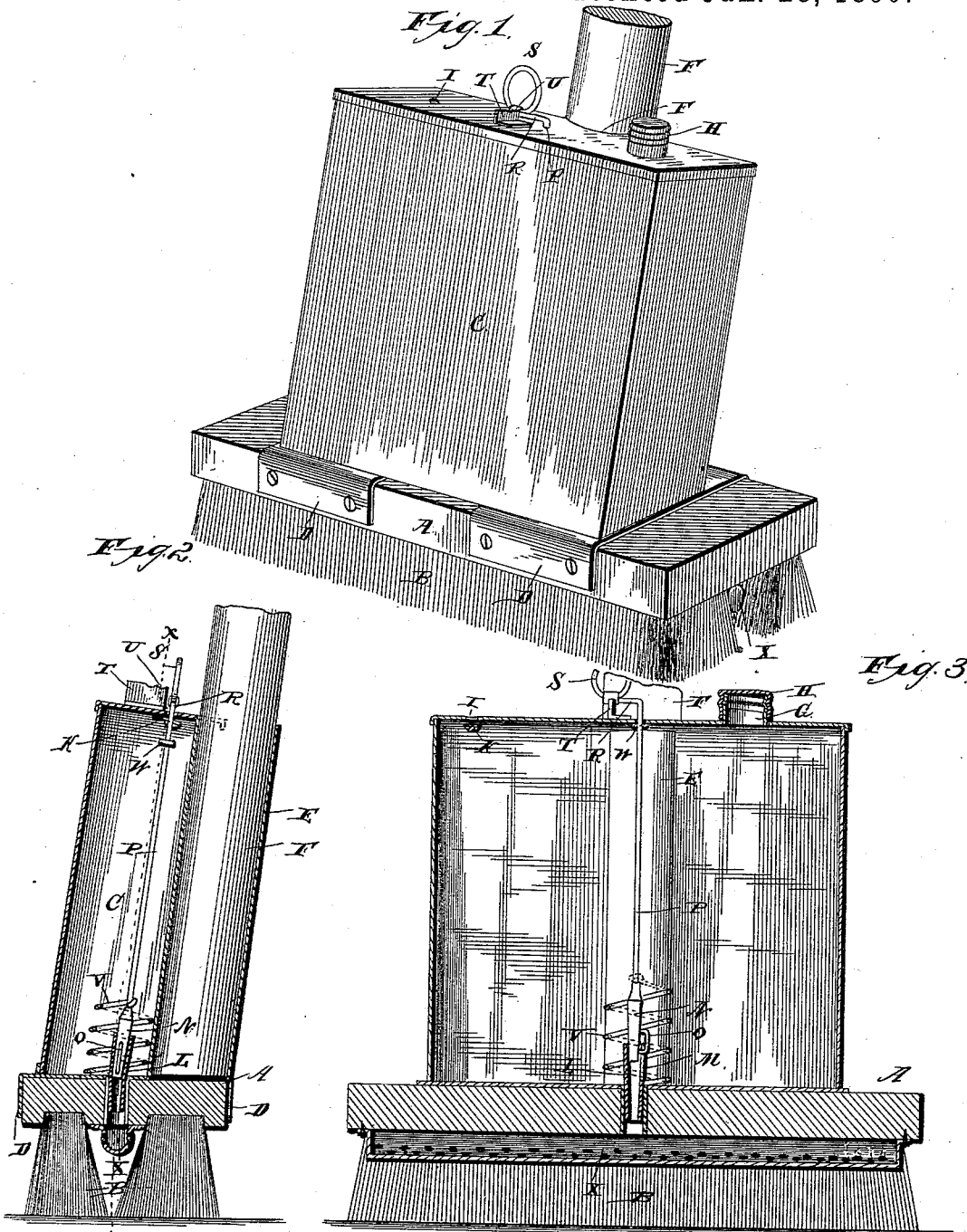


(No Model.)

H. DIXON & H. S. KOPP.
FOUNTAIN SCRUBBING BRUSH.

No. 420,035.

Patented Jan. 28, 1890.



Witnesses

Geo. Thayer.
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UNITED STATES PATENT OFFICE.

HENRY DIXON AND HENRY S. KOPP, OF DAYTON, OHIO.

FOUNTAIN SCRUBBING-BRUSH.

SPECIFICATION forming part of Letters Patent No. 420,035, dated January 28, 1890.

Application filed January 22, 1889. Serial No. 297,144. (No model.)

To all whom it may concern:

Be it known that we, HENRY DIXON and HENRY S. KOPP, citizens of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a new and useful Improvement in Fountain Scrubbing-Brushes, of which the following is a specification.

Our invention relates to an improvement in fountain scrubbing-brushes; and it consists in the peculiar construction and combination of devices that will be more fully set forth hereinafter, and particularly pointed out in the claims.

The object of our invention is to provide a scrubbing-brush with a tank or reservoir to contain water and devices to feed water from the tank or reservoir to the brush when the same is in operation.

In the drawings, Figure 1 is a perspective view of a fountain scrubbing-brush embodying our improvements. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a similar view taken on the line *xx* of Fig. 2.

The scrubbing-brush A, which is or may be of the usual construction, has its hairs or bristles B arranged longitudinally in rows at a suitable distance apart.

C represents a tank or reservoir, which is made of tin or other suitable sheet metal, and is provided at its lower side with ears D, which are adapted to be bent over the edges of the back of the brush and secured thereto by tacks or screws. In the rear side of the tank, in the center of the same, is formed a socket E for the handle F. In the upper side of the tank is an inlet-opening G for the introduction of water and a screw-cap H to close said opening. The top of the tank is further provided with a vent-opening I, on the inner side of which is arranged a valve K, which is adapted to close the said opening and prevent the escape of water from the tank when the brush is arranged in an inverted position. Extending through the bottom of the tank in the center of the same is a pipe L, the upper end of which is provided in one side with a vertical slot M.

N represents a stopper or plug, which plays vertically in the said pipe and has a guiding-yoke O, the lower end of which plays in the

slot. The length of the plug is such that when the same is raised to the upper limit of its movement its lower end partly uncloses the slot and thereby permits water to flow from the tank through the pipe, as will be readily understood. An operating-rod P is attached to the upper end of the plug, extends through an opening in the top of the tank, has a right-angled arm R at its upper end, and a ring or handle S attached to said arm, adapted to be grasped by one of the fingers of the operator to enable him to move the plug upward in the pipe. A plate or standard T projects from the upper side of the tank, and is arranged alongside the upper end of the rod in such position that by turning the latter axially its arm may be caused to engage one of a pair of retaining-notches U in the upper edge of the plate in order to secure the rod in position when the plug is raised.

V represents a spiral retractile spring, which is arranged around the upper end of the pipe L, and has its lower end secured to the bottom of the tank and its upper end secured to the rod P. The function of this spring is to force the plug downward in the pipe L and cause it to keep the slot closed at all times when the arm of the rod is out of engagement with the detent-notches U in plate T, as will be readily understood. A stop W is attached to the rod P at a suitable distance from its upper end, and is adapted to come in contact with the top of the tank when the plug is raised.

Secured to the lower end of the pipe L, arranged longitudinally between the rows of bristles of the brush, is a distributing-pipe X, provided with a series of apertures adapted to direct water to the bristles and thereby keep the latter wet when the brush is in operation and the plug is raised.

A fountain scrubbing-brush thus constructed is extremely cheap and simple and will be found very desirable and convenient.

Having thus described our invention, we claim—

1. The combination, in a fountain-brush, of the tank or reservoir having the pipe L at its lower end and the plate T at its upper end with notches U, the plug movable verti-

cally in the pipe L, the spring pressing downward on said plug, the rod attached to the plug and extending through the upper end of the tank, and having the arm R, adapted to
5 engage the notches U when the plug is raised, substantially as described.

2. In a fountain-brush, the combination of the tank, the outlet-pipe having a vertical slot, the plug or valve arranged to slide vertically in said pipe and having a guide-yoke
10 the lower end of which slides in the slot therein, a spring arranged to hold said plug

or valve to its seat, and an operating-rod extending upwardly from the plug or valve through the tank or casing, substantially as
15 set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

HENRY DIXON.
HENRY S. KOPP.

Witnesses:

WEBSTER W. SHUEY,
ALBERT EMANUEL.