

No. 636,687.

Patented Nov. 7, 1899.

J. H. NELSON.
BROOM RESERVOIR.

(Application filed Dec. 21, 1897.)

(No Model.)

Fig. 1.

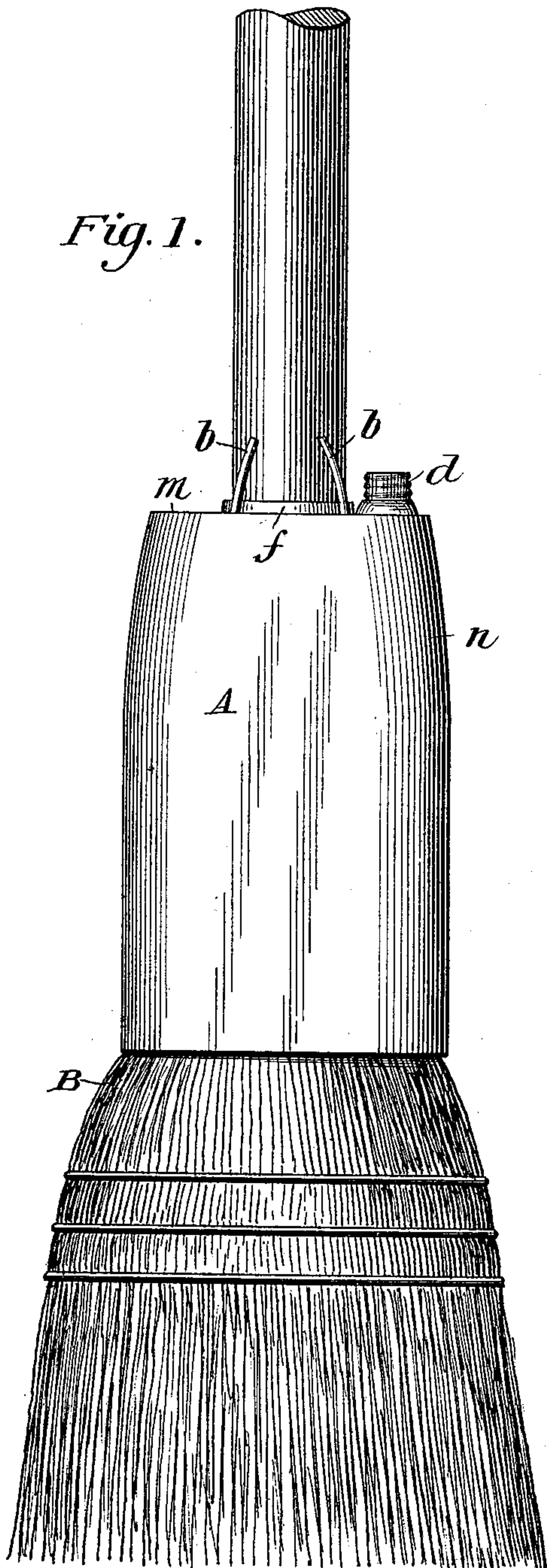


Fig. 2.

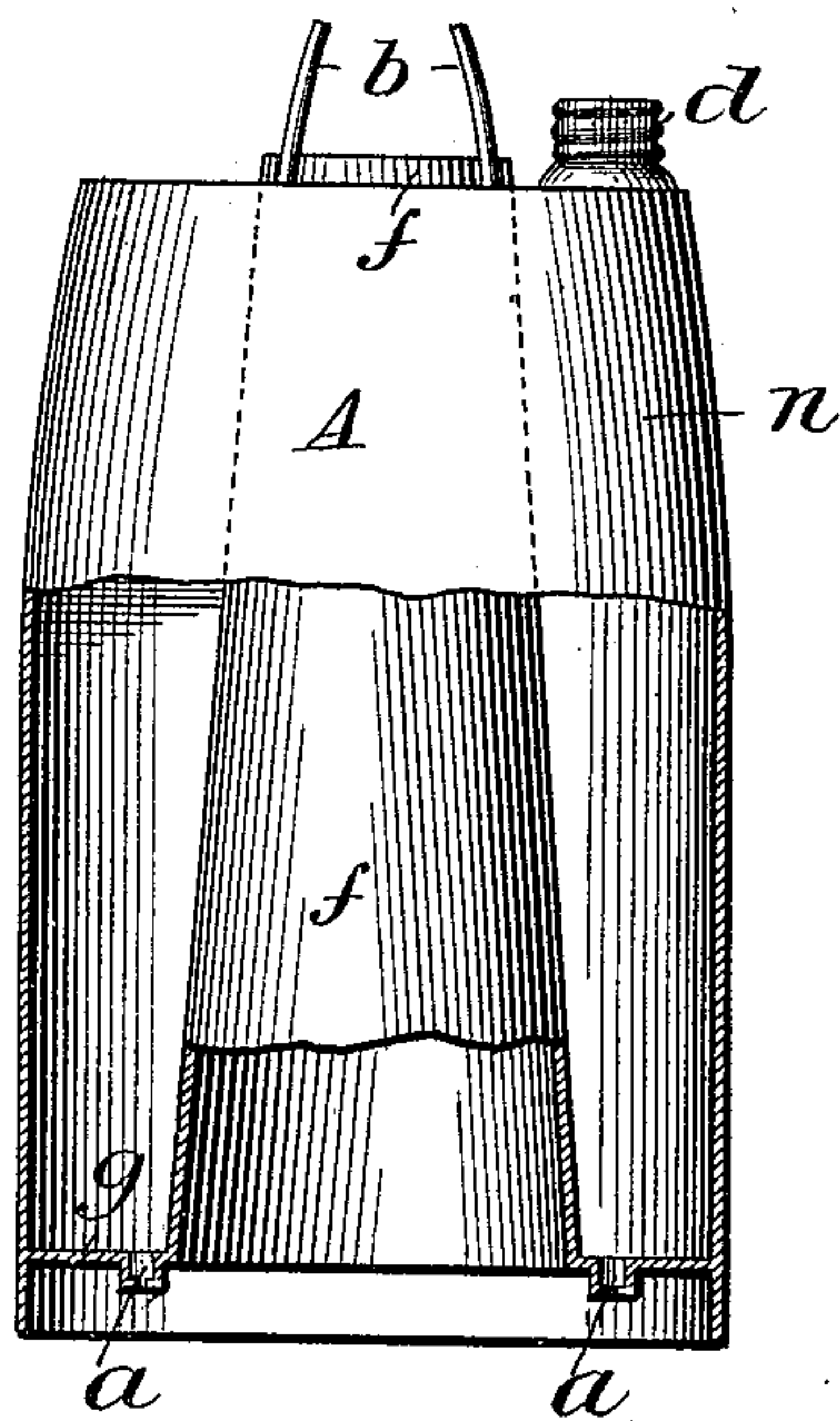
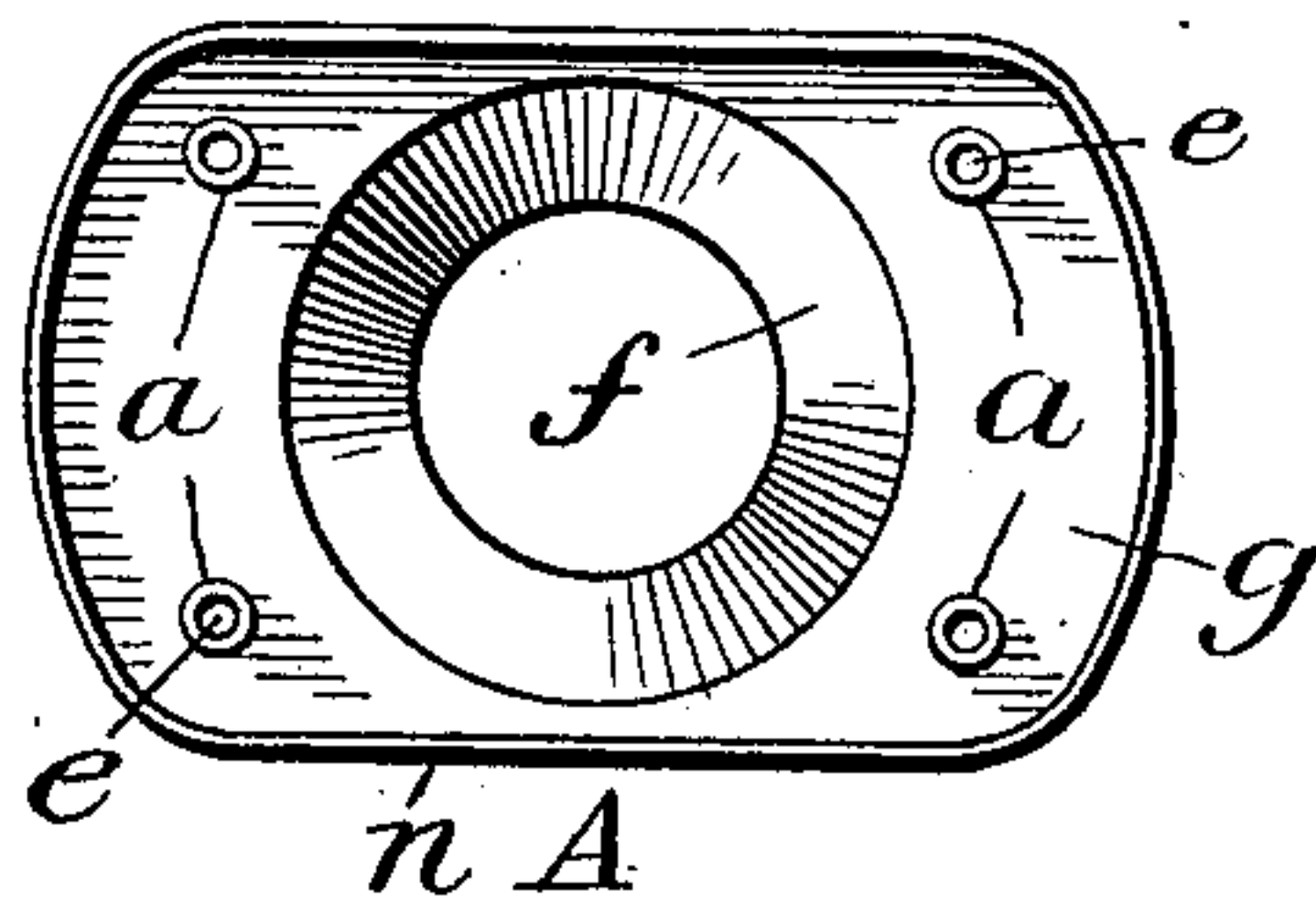


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN H. NELSON, OF ATLANTIC, IOWA, ASSIGNOR OF ONE-HALF TO PETER CHRISTENSEN, OF SAME PLACE.

BROOM-RESERVOIR.

SPECIFICATION forming part of Letters Patent No. 636,687, dated November 7, 1899.

Application filed December 21, 1897. Serial No. 662,944. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. NELSON, a citizen of the United States, residing at Atlantic, in the county of Cass and State of Iowa, have
5 invented certain new and useful Improvements in Reservoirs for Brooms; 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 ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Heretofore a vessel adapted to contain water has been permanently combined with the wooden head of a brush that served as a water-tight bottom for the vessel and a false bottom provided with tubes to convey water fixed
15 in the vessel in a plane above the wooden fixed bottom; but in no instance has a detachable vessel or fountain been provided with a plurality of water-distributing tubes in such a manner that they would not penetrate the broom or so constructed and positioned as to cause water to drip upon the top
20 and covered portion of the hurl in the broom to be by capillary attraction evenly distributed to the broom-corn straw, as contemplated by my invention.

30 My object is to saturate the straw in a broom as required to keep the straw moist to prevent it from breaking while in use for sweeping a floor and also to sufficiently therewith sprinkle and wet the surface to be swept, so
35 as to prevent dust from rising.

My invention consists in the broom attachment hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

40 Figure 1 shows my attachment detachably connected with a broom as required for practical use. Fig. 2 is a side view showing part of the reservoir broken away and the bottom thereof, to which are fixed tubes adapted to
45 distribute water, so as to prevent the water from being directed to the outside straws of the broom by the bottom edge of the wall of the reservoir. Fig. 3 is a plan view of the bottom of the reservoir, showing the positions
50 of the distributing-tubes relative to the cir-

cumference and edge of the wall that extends below the bottom of the reservoir.

The letter A designates the water-reservoir, and B a broom of common form. An open-ended tapering tube *f* is fixed in the top and
55 bottom of the reservoir A and adapted to admit the broom-handle to be passed upward therethrough, so as to allow the bottom edge of the wall of the reservoir to engage the outside straws of a broom, as shown in Fig. 1. 60
At the top of the tube *f* are fixed spring-clasps *b*, adapted to engage the broom-handle and normally fasten the reservoir to the broom.

g is the closed bottom of the reservoir A at some space above the bottom edge of the reservoir-wall. Small tubes *a* are fixed to the bottom *g* at some distance from the wall of the reservoir that extends below the fixed bottom *g*. These tubes communicate with the interior of the reservoir by means of perforations *e* in the bottom *g*, that allow water to
65 percolate therethrough and direct upon the straw of the broom, through which it will be distributed by capillary attraction to all portions of the straw in the broom, and consequently cannot run down over the outside
70 straws to fall therefrom in large drops while the broom is in use.

d is a screw-capped opening at the top of the reservoir, through which water and air are
80 admitted.

To apply the fountain or attachment to a broom, I simply pass the end of the broom-handle upward through the open-ended tube
85 *f* and allow the bottom edge of the reservoir that extends below the fixed bottom *g* to rest upon the exterior and top portions of the straws in the broom. The spring-clasps *b* at the top of the tube *f* will retain the attachment stationary on the broom, and the tubes
90 *a*, that extend below the fixed bottom *g* and communicate with the interior of the reservoir, will distribute sufficient water therefrom and through the broom while the broom is used for sweeping to moisten the straw in
95 the broom and the dust on the floor, so that dust will not rise to annoy the operator and to affect the respiration and health of the sweeper.

Having described my invention and its operation, its utility is obvious, and what I 100

claim, and desire to secure by Letters Patent therefor, is—

- 5 1. In an attachment for brooms, a vessel adapted to retain water and its lower continuous edge adapted to rest upon the hurl fixed to the broom-handle, and the water-tight bottom fixed in the vessel at some distance above the said continuous lower edge and provided with short fixed tubes to distribute water and an
10 open-topped tube fixed in the bottom and top of the vessel, as and for the purposes stated.
- 15 2. A water-reservoir and broom attachment comprising a water-tight reservoir having an open-ended tube extended through its vertical center, spring-clasps fixed to the top of

said tube, a fixed bottom to the reservoir located at some space above the lower edge of the wall of the reservoir, tubes fixed to the said fixed bottom at some space from the lower edge of the said extended wall and means for
20 admitting water and air at the top of the reservoir, constructed and adapted to be detachably connected with a broom and operated in the manner set forth for the purposes stated.

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

JOHN H. NELSON.

Witnesses:

GEO. H. ROBERTSON,

GEORGE F. BRUINGTON.