(No Model.)

B. J. SIMPSON.

FOUNTAIN BRUSH.

No. 600,557. Patented Mar. 15, 1898.

Fig. 1.

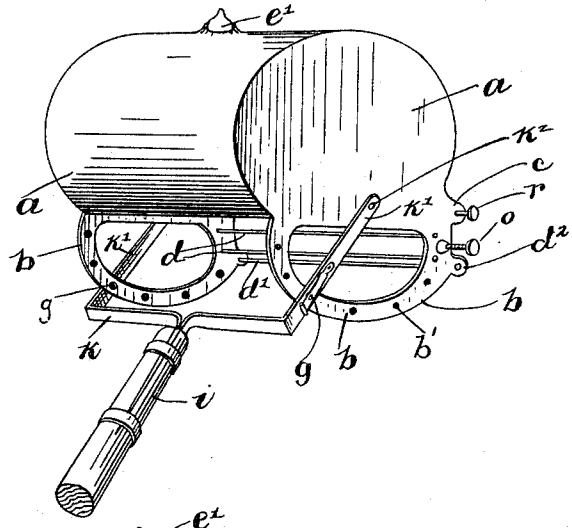


Fig. 2.

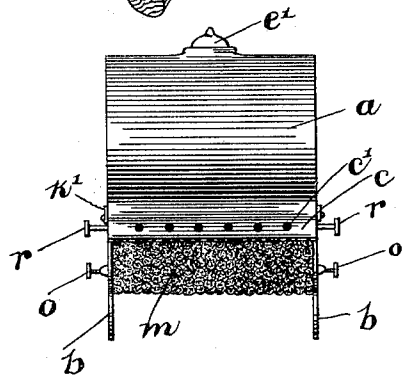


Fig. 3.

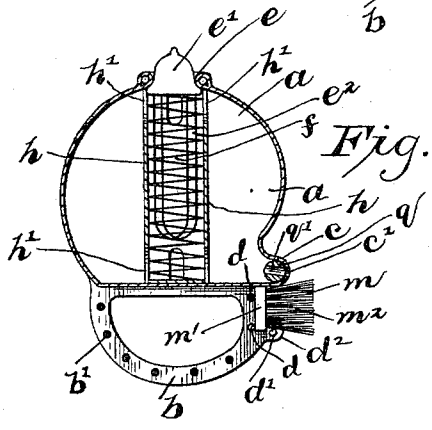


Fig. 4.



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BERT J. SIMPSON, OF COLUMBUS, OHIO.

FOUNTAIN-BRUSH.

SPECIFICATION forming part of Letters Patent No. 600,557, dated March 15, 1898.

Application filed February 20, 1897. Serial No. 624,362. (No model.)

To all whom it may concern:

Be it known that I, BERT J. SIMPSON, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Fountain-Brushes, of which the following is a specification.

My invention relates to the improvement of fountain-brushes of that class which are adapted for use in washing windows, walls, floor-surfaces, &c.; and the objects of my invention are to provide an improved brush or washing device of this character of superior construction and arrangement of parts, to provide improved means for filling the reservoir, to provide improved means for supporting the brush and discharging water thereon, and to produce other improvements in the details of construction, which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of my improved washing device with the brush removed therefrom. Fig. 2 is a front elevation of the same, showing the brush in place. Fig. 3 is a central vertical section of the body of the washing device, and Fig. 4 is a detail view in perspective, illustrating the water outlet and controlling valve.

Similar letters refer to similar parts throughout the several views.

In the construction of my improved fountain-brush or washing device I employ a reservoir or case, preferably of the partial cylindrical form indicated at *a*. With each end of the reservoir *a* I form a downwardly-extending substantially semicircular arm *b*, the latter being provided at regular intervals with suitable pin-holes *b'*. With the forward side of the reservoir *a* and adjacent to the lower side thereof I form said reservoir with a forwardly-projecting bead or semicylindrical roll *c*, the latter being provided at regular intervals with perforations *c'*. Extending between the forward portions of the downwardly-extending arms or segments *b* and arranged one above the other are rods *d*, while a similar rod *d'* extends between short forward extensions d^2 of said arms *b*.

In the upper side of the case *a* I provide a valve-opening *e*, which is adapted, as indicated in the drawings, to be normally closed by a suitably-shaped valve *e'*, which is adapted to project partially through said valve-opening from the inner side of the case. This valve *e'* has extending downwardly therefrom within said case doubled or looped guide-wires e^2, the latter being inclosed within a vertically-arranged coil-spring *f*, which extends between the bottom of the case *a* and the under side of the valve *e'* and which serves to normally hold said valve in the closed position indicated in the drawings.

h represents a cylindrical casing which is arranged vertically within the reservoir and which is adapted to surround the lower portion of the valve *e'* and the spring *f*. This internal casing is provided at desirable points with suitable openings *h'*.

i represents a handle which is suitably connected with a yoke *k*, the latter being provided with parallel arms *k'*, the ends of which are pivotally connected at k^2 with the ends of the casing *a*. The yoke-arms *k'*, which are thus made to pass on the outer sides of the reservoir or casing arms *b*, are each provided with a spring-actuated catch-pin *g*, which pins are adapted to be made to engage with the desired ones of the openings *b'*.

m represents a brush which consists of the usual back *m'*, of wood or other suitable material, and the projecting brush-bristles m^2. The brush thus formed is adapted to have its back portion inserted beneath the projecting portion *c* of the reservoir, said brush-back being made to abut against the rods *d*, while the body of the brush is designed to rest upon the lower and forward rod *d'*. The brush is detachably held in the position described by means of set-screws *o*, which pass through the arms *b* of the casing *a* and are adapted to be turned firmly against the ends of the brush-back.

Within the roll projection *c* of the external casing I journal a shaft-valve *q*, which is provided at regular intervals with perforations or openings *q'*, which correspond with the openings *c'*. By means of a suitable thumb-screw extension *r* at one end of the shaft-valve *q* I am enabled to cause the openings *q'* to register with the openings *c'*, when desired, by proper rotation of said valve.

In utilizing my invention the reservoir-cas-

ing *a* is designed to be filled with water by inserting the same within a bucket or other vessel containing water. In so inserting the reservoir the valve *e'* is brought into contact with the bottom of the vessel and is thereby pressed inward, allowing the water to enter the opening *e* and by passing through the internal case openings *h'* to properly fill the reservoir. The reservoir being withdrawn from the bucket and the pressure thereby released on the outer end of the valve *e'*, said valve, through the medium of the spring *f*, will be automatically forced to a closed position. In order to provide the brush portion *m*² with water, the valve *q* may be turned to cause a registration of the perforations *q'* and *c'* and a consequent flow of water through said perforations *c'* onto the brush. The handle-yoke *k* being turned to the desired angle with the casing *a* and held in such position by means of the spring-actuated pin *g*, the brush may be made to travel over the surface which it is desired to clean.

It will be observed from the construction which I have shown that my improved fountain-brush is particularly designed for the cleaning of windows or vertical surfaces, as well as railway-coaches and other objects, inasmuch as means are provided for the support of the reservoir and brush at any desirable angle from the handle thereof.

The means herein provided for distributing water onto the brush are such as to admit of the valve *q* being so turned as to provide for a continuous flow of water from the tank onto the brush or admit of the brush being dampened at desirable intervals.

It will also be seen that improved means are provided for detachably supporting the brush in connection with the body of my device and that regardless of the angle at which the handle is extended from the reservoir said reservoir is retained in a substantially upright position and that practically all the water contained in the reservoir may be discharged onto the brushes.

It will be observed that my improved fountain-brush construction is simple and that the device may be produced in a reliable and convenient form.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a fountain-brush or washer, the combination with a reservoir having curved downwardly-extending end arms, a brush, means for supporting said brush from the framework and discharging water from said tank onto said brush, of a handle-yoke embracing and pivotally connected with opposite ends of said casing and means for detachably connecting said yoke-arms at different points with the curved arm extensions *b* of the casing, substantially as and for the purpose specified.

2. In a fountain-brush or washing device the combination with a reservoir or casing *a* having a perforated forward extension *c* formed with said casing, a rotary valve in said extension having perforations therethrough, a valve-opening *e* in the upper side of said case and a spring-actuated valve *e'* normally closing said opening and projecting therethrough, of rods *d* and *d'* extending beneath the forward portion of said casing and a brush adapted to be supported by said rods as described and set-screws passing through the framework and adapted to engage with said brush-back, substantially as and for the purpose specified.

BERT J. SIMPSON.

In presence of—
C. C. SHEPHERD,
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