

(No Model.)

G. W. PARK,
CLEANSING BRUSH.

No. 520,449.

Patented May 29, 1894.

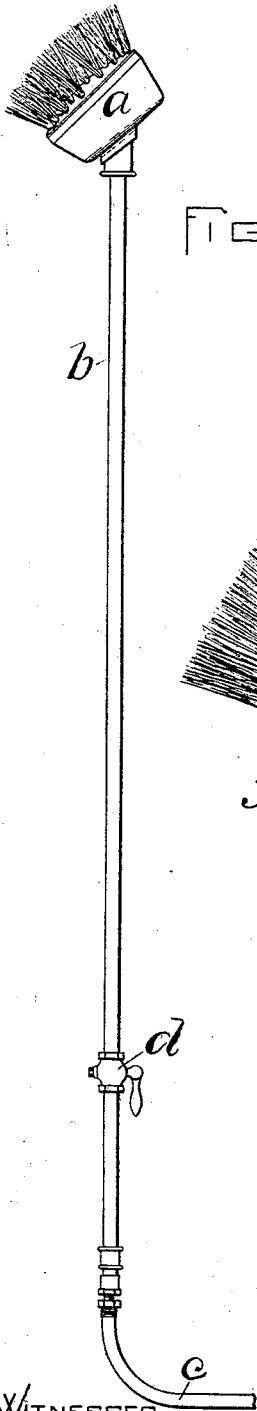


FIG. 1.

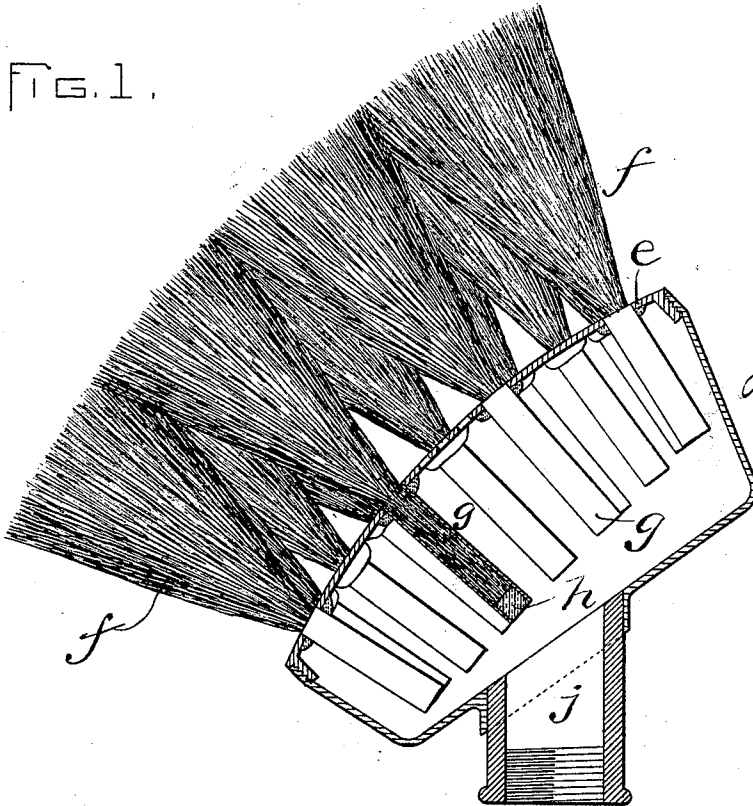


FIG. 2.

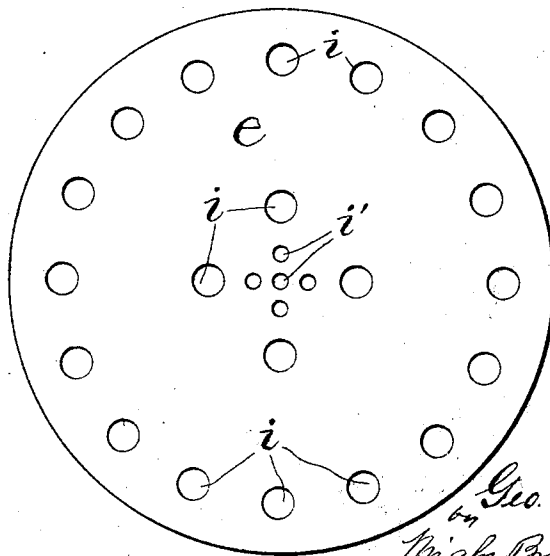


FIG. 3.

WITNESSES
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UNITED STATES PATENT OFFICE.

GEORGE W. PARK, OF QUINCY, MASSACHUSETTS.

CLEANSING-BRUSH.

SPECIFICATION forming part of Letters Patent No. 520,449, dated May 29, 1894.

Application filed August 7, 1893. Serial No. 482,502. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PARK, of Quincy, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Cleansing-Brushes, of which the following is a specification.

This invention has relation to cleansing brushes designed for use in washing windows, railway coaches, wagons and carriages, &c., where water is copiously employed in connection with brushing effects.

It is the object of the invention to provide such improvements in cleansing brushes as will render the same as light as may be, afford a discharge of water at the most available point and in the most desirable manner, and hold the bristles securely against coming or being pulled out when the brush is in use.

To this end my invention consists of a cleansing brush comprising in its construction a hollow sheet metal head having a perforated center, tufts of bristles secured in the head around the perforations, and a hollow handle communicating with the head for supplying water to the latter, all as I will now proceed to describe in detail and point out with particularity in the appended claim.

Reference is to be had to the annexed drawings and to the letters marked thereon, forming a part of this specification, the same letters designating the same parts or features, as the case may be, wherever they occur.

In the drawings:—Figure 1 is a side view of the invention complete. Fig. 2 is a central sectional view of the head drawn to an enlarged scale. Fig. 3 is a plan view of the cap of the head detached with the bristles removed.

In the drawings:—*a* designates the head of the brush.

b is the hollow handle connected with the head in such manner as to supply water thereto, and constructed so as to be attachable to a length of hose *c*.

d is a stop-cock or regulating valve with which the handle may be provided in order to shut off and regulate the supply of water to the brush.

In order that the head *a* may not be affected by the water I construct the same of metal, and to render it light in weight I prefer to make it of sheet metal, as shown.

e designates the cap which may be slightly dish-shaped, with the convex side facing outward, and provided with a screw-threaded rim, adapting it to be screwed upon or into the head which may be suitably provided with a screw-thread; or the cap may be, if desired, soldered upon the head.

f designates tufts of bristles which are secured in metallic tubes *g* which may be closed with solder or cement at their inner ends, as at *h*. Said tubes *g* are set in holes or perforations *i* formed in the cap *e* at such an angle as desired, and secured to the cap by means of solder, or in any other suitable manner.

By forming and holding the tuft of bristles as desired I am enabled to make the cap *e* of sheet metal in order to render it as light in weight as possible, and at the same time hold the bristles securely against displacement.

i' designates perforations formed in the center of the cap *e* through which a spray of water may be forced, the tufts of bristles being so arranged as to not materially obstruct the water in its flow through said central perforations.

The head may have a screw-threaded coupling thimble *j* soldered or otherwise secured thereto, so that the pipe or hollow handle *b* may be readily secured thereto and detached therefrom.

If need be a heavy band of rubber may be sprung over and held upon the sides of the head to prevent the same from accidentally damaging any article by contact therewith.

In use the water will be turned on to the extent desired while the washing process is under way so that water will be continually supplied to the brush, and after the washing process is completed the water may be turned on "full head," and by holding the brush a short distance from the washed parts, a stream or spray of water may be thrown thereon to effect a rinsing thereof.

By making the head of sheet metal all liability of distortion by the action of the water is avoided, and the device made as light of weight as may be.

Another matter of advantage with this cleansing brush is that no deflector for the water is required in the use of the brush.

Having thus explained the nature of the invention and described a way of constructing

and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, it is declared that what is claimed is—

- 5 A cleansing brush comprising in its construction a head having a sheet metal cap c, perforations centrally arranged in said cap, means for delivering water to said perforations, and tufts of bristles secured in said cap
10 around said perforations, said tufts being first secured in tubes sealed at their inner ends,

which tubes are soldered to the said cap, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of 15 two subscribing witnesses, this 1st day of August, A. D. 1893.

GEORGE W. PARK.

Witnesses:

ARTHUR W. CROSSLEY,
A. D. HARRISON.