

J. P. POLAND.
BRUSH.

Patented March 20, 1877.

No. 188,536.

Fig. 1.

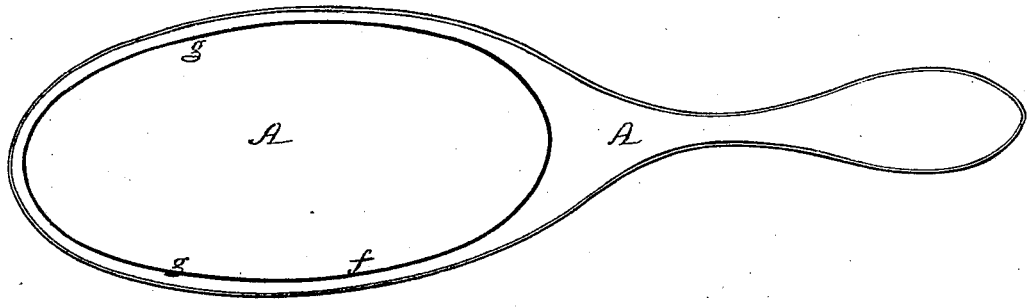


Fig. 2.

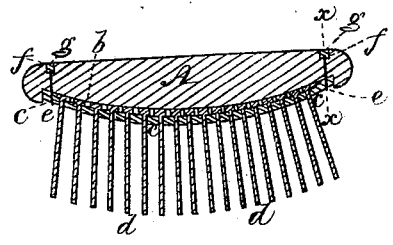


Fig. 3.



Fig. 4.

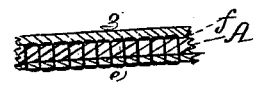
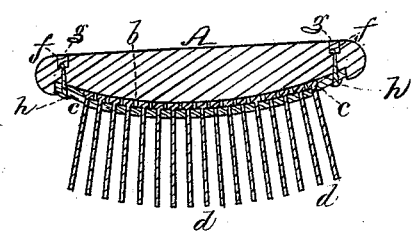


Fig. 5.



Witnesses,
W. J. Cambridge
& C. Cambridge

Inventor,
James P. Poland
Per Stechemacher & Stearns
Attys

UNITED STATES PATENT OFFICE.

JAMES P. POLAND, OF ARLINGTON, MASSACHUSETTS.

IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. 188,536, dated March 20, 1877; application filed September 11, 1876.

To all whom it may concern:

Be it known that I, JAMES P. POLAND, of Arlington, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Brushes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a plan of the back of a brush constructed in accordance with my invention. Fig. 2 is a transverse vertical section through the same. Fig. 3 is a plan of a portion of the front face of the brush near its edge. Fig. 4 is a section on the line *xx* of Fig. 2. Fig. 5 is a section through a portion of a similar brush, in which the backing material for holding the wires is secured to the handle by tacks instead of stitching.

This invention relates to an improvement in that class of brushes having, instead of bristles, wires set in a soft vulcanized-rubber backing; and consists in securing the backing material, with its wires, within a suitable recess in the handle by stitching through the latter into a groove extending around its back near the edge thereof, or by tacks having their points clinched within said groove, the stitching or clinched points of the tacks being afterward concealed by filling the groove with sealing-wax, or other suitable material, which may be of such color as to form a contrast with that of the adjacent surface, by which construction a secure and simple fastening is obtained, while, at the same time, a neat and ornamental finish is given to the back of the handle.

To enable others skilled in the art to understand and use my invention I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents the handle or stock of the brush, which may be made of wood, hard rubber, or other suitable mate-

rial. In the front face of this handle is formed a shallow recess, *b*, for the reception of the backing material *c*, composed of soft vulcanized rubber, or other suitable material, through which the headed wires *d* have been previously forced from the back side. The backing material, with its wires, is secured in place within the recess *b* by a row of stitching, *e*, the thread passing through suitable apertures in the handle into a groove, *f*, formed within, and extending around, the back of the handle near its edge, as seen in Figs. 1 and 2.

After the backing material has been stitched to the handle, the groove *f* is filled with sealing-wax *g*, or other suitable material, which may be of such color as to form a contrast with that of the adjacent surface, and the back of the brush is then polished, the filling serving to conceal the stitches within the groove, and, at the same time, forming an ornamental border, which gives a neat finish to the back of the brush.

Instead of stitching the backing material to the handle, as above described, it may be secured thereto by means of tacks or small nails *h*, as seen in Fig. 5, the points of these tacks or nails being clinched within the groove *f*, and afterward concealed by the filling *g*.

What I claim as my invention, and desire to secure by Letters Patent, is—

The handle A, with its recess *b* and groove *f*, in combination with the soft backing material *c*, secured thereto by stitches or tacks passing through the handle into the groove *f*, provided with a filling, *g*, for concealing the stitches or clinched points of the tacks, substantially as and for the purpose set forth.

Witness my hand this 8th day of September, A. D. 1876.

JAMES P. POLAND.

In presence of—

P. E. TESCHEMACHER,
ARTHUR POLAND.