

(No Model.)

C. E. HOWLAND.
BRUSH.

No. 545,691.

Patented Sept. 3, 1895.

Fig. 1.

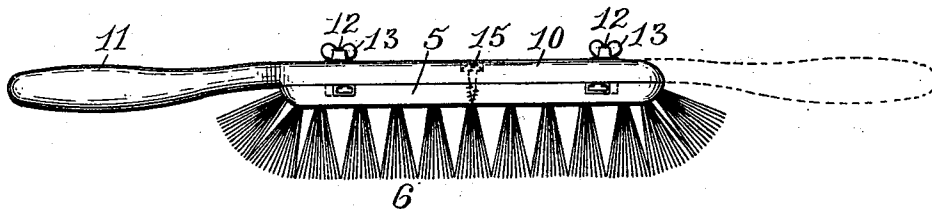


Fig. 2.

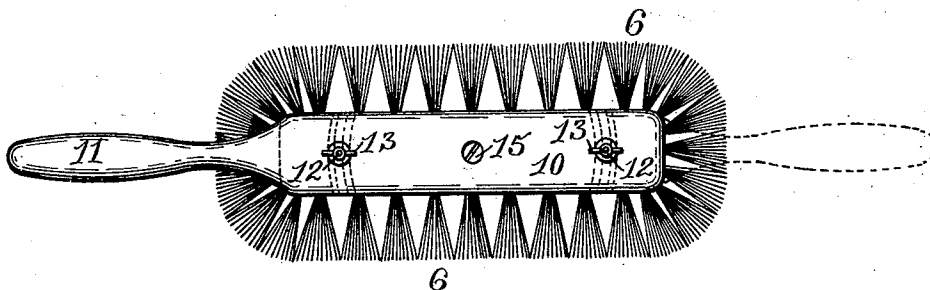


Fig. 3.

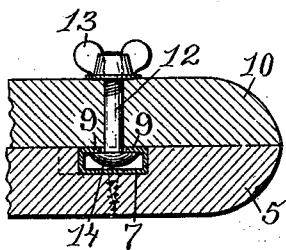
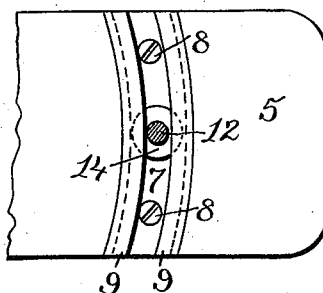


Fig. 4.



WITNESSES:

Henry J. Miller
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INVENTOR:

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UNITED STATES PATENT OFFICE.

CHARLES E. HOWLAND, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR, BY
DIRECT AND MESNE ASSIGNMENTS, TO THE REVERSIBLE BRUSH COM-
PANY, OF RHODE ISLAND.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 545,691, dated September 3, 1895.

Application filed March 20, 1893. Serial No. 466,870. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. HOWLAND, of the city of Providence, in the county of Providence and State of Rhode Island, have
5 invented certain new and useful Improvements in Brushes; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of
10 this specification.

This invention has reference to an improvement in brushes; and it consists in the peculiar and novel construction of the handle and its connection with the brush, as will be more
15 fully set forth hereinafter.

Figure 1 is a side view of the brush, showing the handle at one end and indicating in broken lines the position of the handle at the opposite end of the same. Fig. 2 is a top view
20 of the brush. Fig. 3 is a sectional view of part of the brush-back and the bristle-holding portion to more clearly show the clamping device by means of which the two parts are clamped together; and Fig. 4 is a top view of
25 a part of the bristle-holding portion, showing the semicircular guideway in which the head of the clamping device is held.

In the drawings, 5 is the bristle-holding portion or head of the brush.

30 6 6 are the bristles.

7 7 are the arc-shaped grooved metallic pieces which are let into the head 5 and are secured thereto by means of the screws 8 8. These metallic pieces 7 7 are constructed with the lips 9 9 and prevent the warping of the
35 head 5. They are struck from one and the same center, which is the central pivot 15—that is, the grooved plates are secured in the head 5 equidistant from the pivot, so that when the

back 10 is revolved the bolts 12 describe a circle of which the said plates are arcs. The back 10 is made in one piece with the handle 11 and carries the bolts 12 12, which are provided with the thumb-nuts 13 13 and heads 14 14. This back 10 is pivoted to the head 5 by 45 the screw 15.

Brushes always wear first at the end opposite the handle, the bristles or other elastic fibers wearing off at this end more rapidly than at the opposite end. By the use of my
50 invention the handle can be readily reversed by simply loosening the thumb-nuts 13 13, revolving the bristle portion 5 on the pivot 15 until the ends are reversed and the heads of the bolts 12 12 are in the center of the oppo-
55 site arc-shaped pieces 7 7, then screwing the thumb-nuts down on the backing 10 and securely clamping the two portions of the back together, as is clearly shown in Fig. 3.

It is evident that by the construction shown
60 and described a very durable brush is secured—one that can be readily changed to allow of equal wear to both ends of the brush.

Having thus described my invention, I claim as new and desire to secure by Letters
65 Patent—

In a reversible brush, the combination of the back 10, the head 5 pivoted centrally to the back, the arc-shaped grooved plates set into the head, and the bolts carried by the
70 back, and adapted to engage the grooves, substantially as and for the purposes set forth.

In witness whereof I have hereunto set my hand.

CHARLES E. HOWLAND.

Witnesses:

JOSEPH A. MILLER, Jr.,
M. F. BLIGH.