

O. D. Woodbury,

Brush.

No. 102460.

Patented Apr. 26, 1870.

Fig. 1.

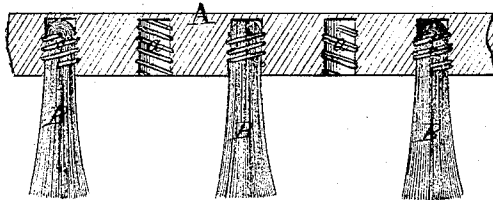
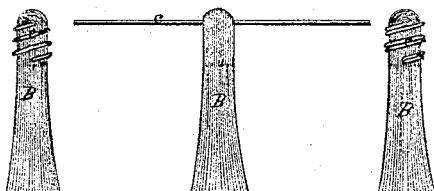


Fig. 3.

Fig. 2.

Fig. 4.



Witnesses.
Fred. Haynes
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Inventor.

Oscar D. Woodbury

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OSCAR D. WOODBURY, OF NEW YORK, N. Y.

Letters Patent No. 102,460, dated April 26, 1870.

IMPROVEMENT IN BRUSHES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, OSCAR D. WOODBURY, of the city, county, and State of New York, have invented a new and useful Improvement in Brushes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings which form part of this specification.

This invention consists in securing the bunches of bristles within the holes formed for them in the back or stock of the brush, by means of a wire or wires passing spirally around and binding the bristles and forming thereon screw-threads which are screwed into the holes.

Referring to the accompanying drawings—

Figure 1 represents a sectional view of a brush having its bristles attached to the stock according to my invention.

Figure 2 represents a detached bunch of bristles, having the wire attached, but not yet bent in its spiral form around it; and

Figures 3 and 4 represent detached bunches of bristles, illustrating different ways in which the screw-threads may be formed.

Similar letters of reference indicate corresponding parts in the several figures.

A represents the back or stock of a brush constructed of wood or other suitable material, and having bored in it the usual holes *a* for reception of the bristles.

The bristles are collected in bunches, B, of suitable

size to fit the holes *a*, after being doubled in the usual way.

A wire, *c*, is passed through the loop formed by the doubling of the bristles B, as shown in fig. 2, and bent spirally around the bunch of bristles so as to bind it, and to form screw-threads thereon, as shown, so that when the bunch of bristles is screwed into one of the holes *a* in the stock, the wire *c*, by forming corresponding female-threads in the hole, or by fitting in similar threads already formed therein, will securely hold the bunch of bristles to the stock.

The two ends of the wire *c* may be carried around the bristles separately from each other, so as to form double screw-threads, as shown in fig. 3, or they may be carried around it side by side, as shown in fig. 4.

The ends of said wire, by means of their abrupt termination, or by being otherwise suitably formed for insuring their engagement with the sides or walls of the hole *a*, upon the backward turning of the bunch of bristles, serve to prevent the backward motion of the bristles, and thereby retain them in place after they have been screwed into the stock.

What is here claimed, and desired to be secured by Letters Patent, is—

A brush, constructed by binding the bristles with wire in a spiral manner, so as to form a screw to connect with the stock, by screwing them into suitable recesses therein, as shown and described.

Witnesses OSCAR D. WOODBURY.

HENRY T. BROWN,
HENRY PALMER.