

C. H. STRATTON.
Brush.

No. 210,166.

Patented Nov. 19, 1878.

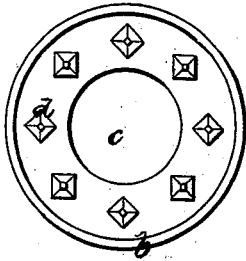


FIG. 1.

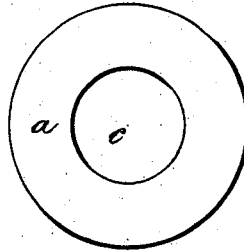


FIG. 2.

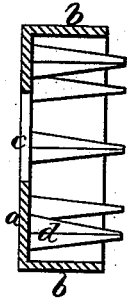


FIG. 3.

WITNESSES:

Chas. H. Kimball.
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INVENTOR:

Charles H. Stratton
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William Henry Clifford

UNITED STATES PATENT OFFICE.

CHARLES H. STRATTON, OF PORTLAND, MAINE.

IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. **210,166**, dated November 19, 1878; application filed June 5, 1878.

To all whom it may concern:

Be it known that I, CHARLES H. STRATTON, of Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Brushes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a bottom-plan view. Fig. 2 is a top-plan view. Fig. 3 is a vertical central section.

The object of the present invention is to produce an improved ferrule for brushes, particularly in that description used for painting; and the novelty consists more particularly in having the cap-piece, which carries points, made solid, or of the same piece with the ferrule, all as will now be more in detail set out and explained.

In the accompanying drawings, *a* shows the top part of the ferrule. *b* is the rim. *c* is the central aperture of the top; and *d* are the points, projecting from the inner face of the top part *a*.

In using my said device, the butt of the bristles, having been properly prepared, is fitted into the ferrule with cement. The metal projections *d* are thus forced into the butt, causing it to expand and tighten into its seat. Thus I am enabled to use a very small handle with my ferrule, which is a very desirable end to gain, since the smaller the handle the smaller the hollow in the center of the brush.

The ferrule, being made of metal, gives an especial advantage in the points, since they are not affected by the changes in the atmosphere or by moisture, their very liability to be affected by these changes constituting an

especial difficulty in the use of wooden pegs or points, because by their swelling or shrinking the bristles are loosened; and where pegs are used on a wooden disk or handle, and driven into the bristles, the wooden disk is liable to shrink away from the ferrule, and thus the brush becomes practically useless. Moreover, the metal ferrule is very much stronger than a wooden one, and in such a ferrule the rim *b* can, if so desired, be made very narrow. This decrease in the width of this rim will leave a greater length of the bristles exposed, and will conduce to make the brush last longer.

This ferrule may be made round, oval, oblong, or any desired shape; and while I have suggested that it is especially designed for a painter's brush, it is evident that it can be readily adapted to use on other kinds of brushes.

The points *d* can be made of any desired length relative to the rim *b*; but I have found it is best to have them extend beyond or below it, since they will then be likely to aid more efficiently in stiffening the handle in its socket in the cap and in its position in the bristles.

Having thus described my invention, what I consider new, and desire to secure by Letters Patent, is—

The ferrule herein described, consisting of top *a*, having central opening *c*, rim *b*, and points *d*, and made of metal and in one piece, substantially as and for the purposes described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

CHAS. H. STRATTON.

Witnesses:

WILLIAM HENRY CLIFFORD,
EDWARD K. MILLIKEN.