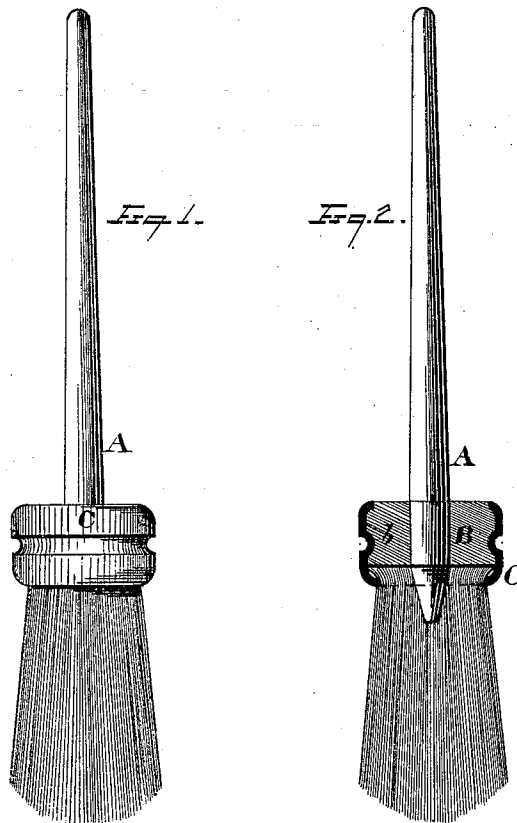


R. S. PERRIN.

BRUSHES.

No. 185,256.

Patented Dec. 12, 1876.



WITNESSES

*Edw. Nottingham*  
*J. M. Cleary*

INVENTOR

*Raymond S. Perrin*  
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ATTORNEY

# UNITED STATES PATENT OFFICE.

RAYMOND S. PERRIN, OF NEW YORK, N. Y., ASSIGNOR TO RAYMOND S. PERRIN BRUSH COMPANY, OF SAME PLACE.

## IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. 185,256, dated December 12, 1876; application filed October 6, 1876.

*To all whom it may concern:*

Be it known that I, RAYMOND S. PERRIN, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to brushes, having for its object a brush which will unite strength of body and tastefulness of appearance. It more especially refers to that class of brushes in which the bristles are connected with a plug or filling independent of the handle, and my design is to so secure the ring or metallic jacket surrounding this filling that the two may be firmly attached together, and at the same time will confine the bristles with a crowding action approximate to their engagement with the filling. This I accomplish by the following construction; and my invention hence consists in the construction and arrangement of the several parts of a paint-brush, as hereinafter described, and pointed out in the claim.

In the drawings, Figure 1 represents a brush made in accordance with my invention, Fig. 2 being a central longitudinal section of same.

A is the handle, made of an independent piece from the filling or plug B, both of which may be of any suitable material and appropriate dimension. The point or lower end of the handle projects below the lower surface of the plug; but it is evident that my improvement is not confined to brushes whose handles have said lower end projection, or which are made separate from the plug, but the two may be of one and the same piece.

About the middle of the outer face of the plug, and running around same in a direction right angular to the length of the brush, is a channeled groove, *b*, of any desired depth and shape, but preferably of a curved concave form. Into this groove is seated an interiorly-projecting bead or tongue corresponding to same, and adapted to interlock the plug with

the incasing ring or thimble C, of which latter this tongue or bead forms a part.

Both the upper and the lower circular end extremities are flanged or turned in toward the vertical center of the plug, by which means the ring is both the better secured to the plug at its top, and also serves at its bottom to compress and retain the bristles as the latter connect with the plug.

By my construction I am enabled to use to advantage the zinc metal in the composite material of the ring, since this peculiar construction of same imparts rigidity to it, thus acting as a strengthening-rib.

The manner of attaching this ring to its supporting-plug, constituting the elemental feature of the invention, consists in placing the ring, having a smooth plane surface body, over its plug, and then stamping, or in any way forcing, the waist of the ring into the central annular recess of the plug, and flanging or turning the upper and lower peripheries of same in against the respective end extremities of the plug.

Under this construction a metallic ring can be connected by inwardly-projecting end flanges and a central depressed rib to a plug, in a manner which necessitates a secure joint, and possessing corresponding advantages.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a paint-brush, the combination, with the plug B and independent handle, the latter constructed with the portion engaging with the plug, of parallel sides, and having a pointed end, whereby it is driven downwardly through the plug, of the metallic ferrule C, formed with upper and lower inwardly-turned flanges, and a central inwardly-depressed groove, whereby the plug and bristles are securely held in place, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of October, 1876.

RAYMOND S. PERRIN.

Witnesses:

MARTIN S. HOUGH,  
D. A. BECK.