

D. Fleming.

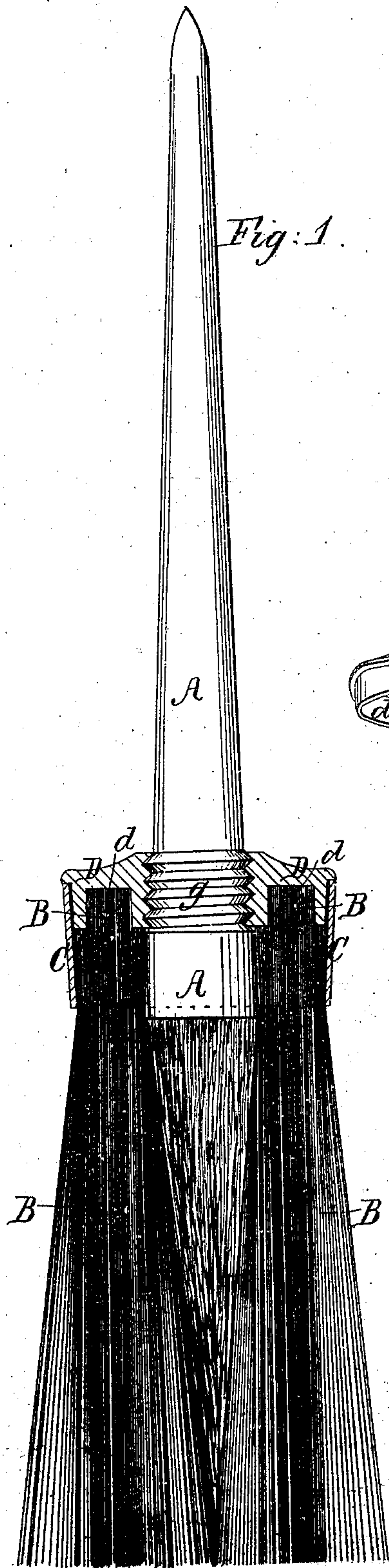
Brush.

Patented Mar. 5, 1861.

3,593.

Fig: 1.

Fig: 2.



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UNITED STATES PATENT OFFICE.

DANIEL FLEMING, OF BROOKLYN, NEW YORK.

BRUSH.

Specification of Letters Patent No. 31,593, dated March 5, 1861.

To all whom it may concern:

Be it known that I, DANIEL FLEMING, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in the Construction of Brushes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a middle section taken vertically through my improved paint brush. Fig. 2 is a perspective view of the screw cap which is shown in section in Fig. 1.

Similar letters of reference indicate corresponding parts in both figures.

This invention refers to an improvement in the construction of round, square or oval brushes where the tuft of bristles is secured around the end of a stick or bundle, the object of which improvement is to more firmly secure the bristles or brush part to the handle, than hitherto, by the employment of a flanged cap which is screwed on the handle over the head of the brush and embedded into the cemented bristles, as will be hereinafter fully explained.

To enable those skilled in the art to make and use my invention I will proceed to describe its construction and operation.

In the accompanying drawings, A, is the long tapering or conical handle of a round brush. B, are the tufts of bristles surrounding the larger end of this handle A, and C, is the metal ring which confines the bristles around the brush handle. The ends of the bristles which are confined between the handle A, and ring C, are cemented in the usual manner, and the handle is then driven in with considerable force, so that the thick end of this handle is held firmly in the center, as a sort of core for the bristles surrounding it, and by thus pressing the bristles tightly against the sides of the metal ring C, holds them firmly.

The ends of the bristles pass nearly through the ring C, and after they are properly secured to the handle in this way, a cap D,

which may be made of hard wood or of metal, is used as a further security against the brush slipping down the handle, or becoming loose on the handle. This cap D, has an annular groove *d*, in its bottom surrounding a hollow portion having a female screw thread cut in it, as shown in Figs. 1 and 2, of the drawings. The groove *d*, in cap D, has on each side of it flanges which are embedded into cement and bristles as represented in Fig. 1, the groove or recess in the cement and bristles, or head of the brush, being made before the cap D, is put on, by a suitable tool which will either cut or burn the bristles. The male screw *g*, is formed on the brush handle A, before this handle is driven into the brush and when all is ready the cap D, is forcibly screwed down in its place and embedded in warm cement.

The cap D, applied to a brush as hereinabove described not only prevents the handle from slipping through the brush, which often happens, when the brush is dropped and strikes on the small end of the handle, but this cap prevents the brush from becoming loose through rough usage, swelling and contraction &c., and it gives a neat finish to the brush at a trifling cost. For other varieties of brushes which are not round the cap is secured down in its place by a nut which screws on the handle A, in the same manner as cap D, is screwed down; the invention is therefore equally applicable to all varieties of "tool" brushes or brushes where the bristles surround the handle, in which the handle is liable to slip through the brush part and vice versa.

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

The screw cap D, or its equivalent, combined with a brush essentially as and for the purposes herein described.

DANIEL FLEMING.

Witnesses:

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