

(No Model.)

W. S. GRAY.
BRUSH BRIDLE.

No. 540,436.

Patented June 4, 1895.

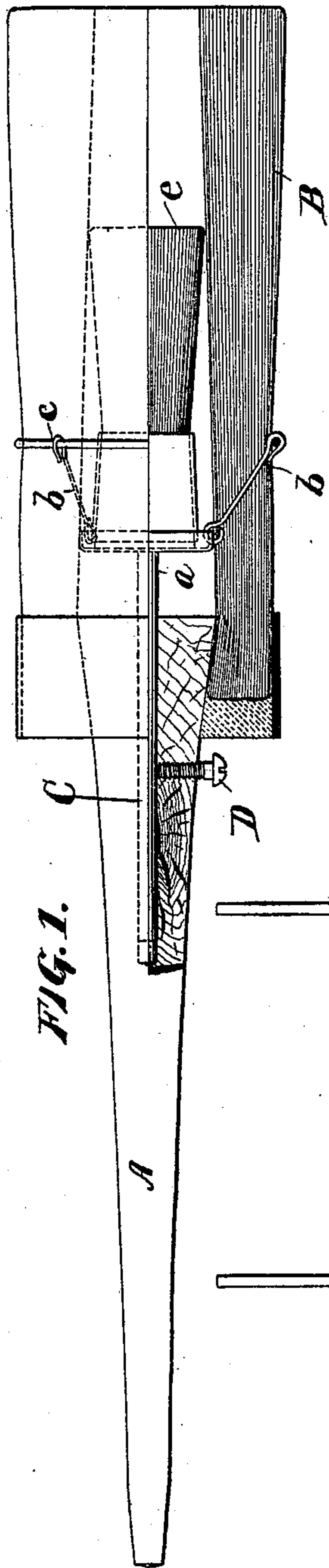


FIG. 1.

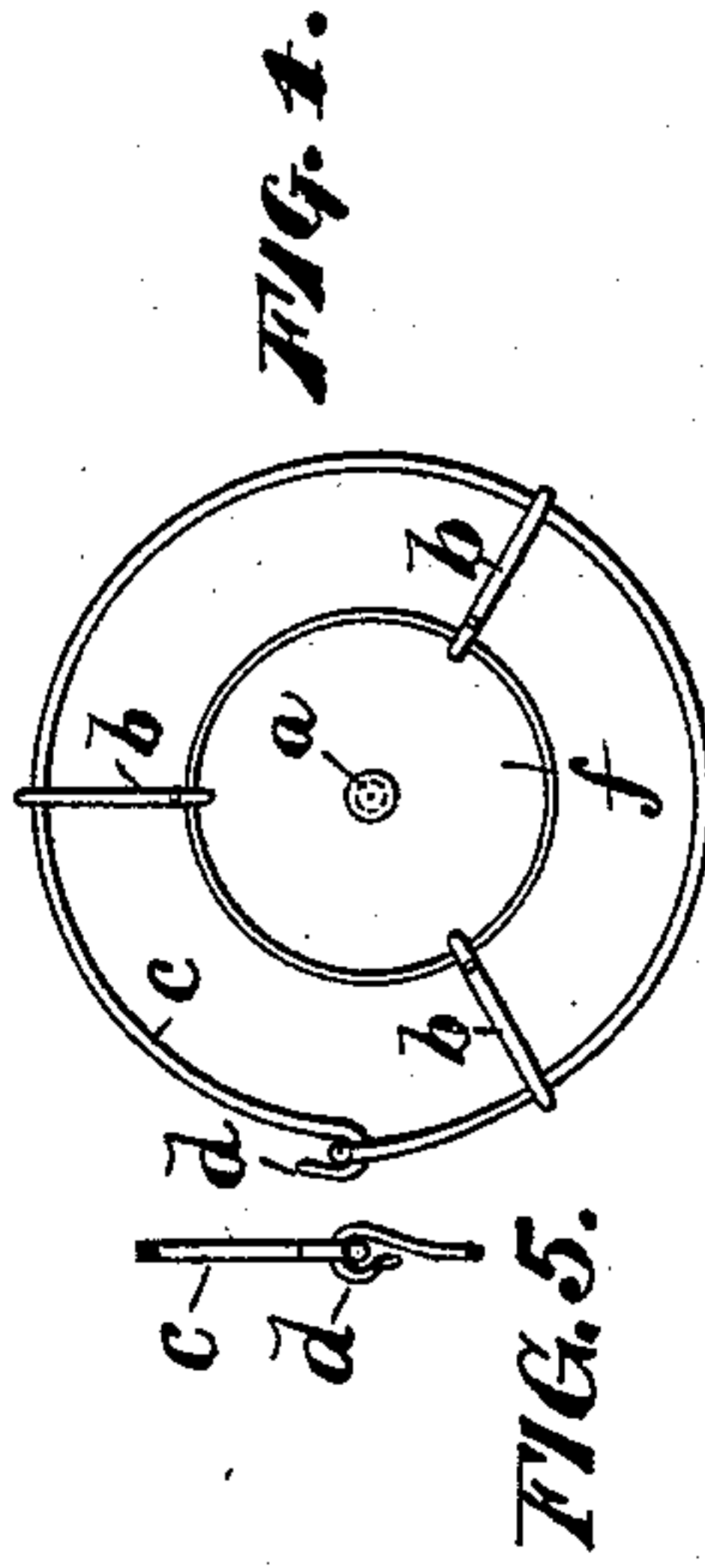


FIG. 2.

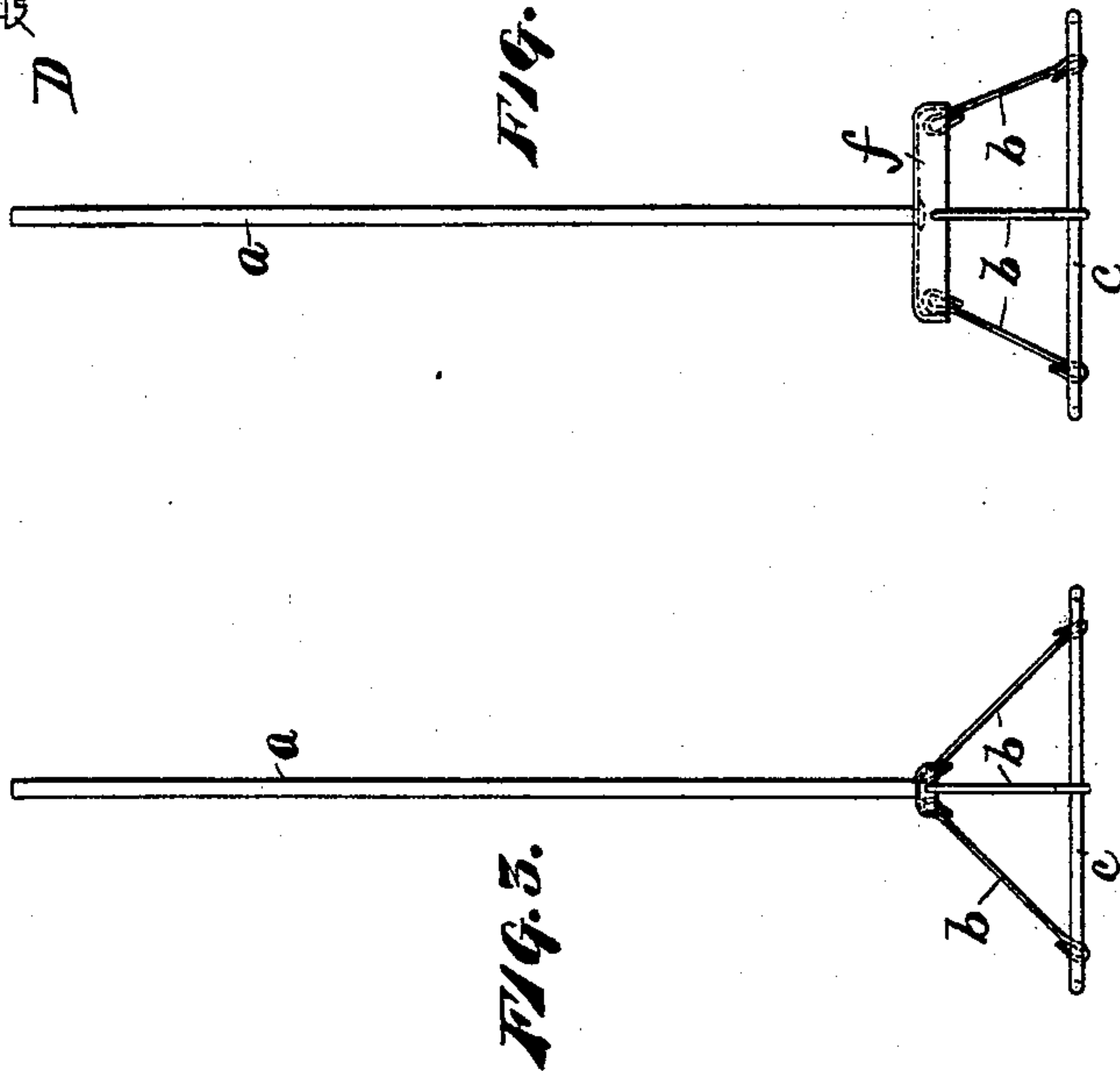


FIG. 3.

WITNESSES:

Wm. S. Gray
H. V. Ross

INVENTOR

Wm. S. Gray
By his attorney
Chas. A. Butler

UNITED STATES PATENT OFFICE.

WATSON S. GRAY, OF PHILADELPHIA, PENNSYLVANIA.

BRUSH-BRIDLE.

SPECIFICATION forming part of Letters Patent No. 540,436, dated June 4, 1895.

Application filed September 11, 1894. Serial No. 522,699. (No model.)

To all whom it may concern:

Be it known that I, WATSON S. GRAY, a citizen of the United States, and a resident of the city and county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Bridles for Brushes, of which the following is a specification.

My invention relates to improvements in bridles for paint or other brushes, and the object of my invention is to furnish an inexpensive and efficient bridle which may be used with round, oval or flat brushes, and with brushes having either a full or open center.

My invention consists essentially of a stem which is placed in the center of the brush and which passes into a hole in the handle of the brush to which it is secured by means of a set screw passing through the handle. The outer end of this rod carries two or more rods or arms which pass out through the bristles of the brush and the outer ends of which engage and hold a wire which passes around the outside of the brush and which forms the bridle.

In the accompanying drawings, forming part of this specification, and in which similar letters of reference indicate similar parts throughout the several views, Figure 1 is partly a side elevation and partly a central sectional elevation of an open-center brush furnished with my improved bridle, the outer end of the adjustable rod carrying a small brush which fills up the open center and acts as the cork usually used for this purpose; Fig. 2, a side elevation of my improved bridle, the outer end of the adjustable rod being furnished with a cylinder to act as a cork for open-center brushes; Fig. 3, a side elevation of my bridle and connected parts as adapted for use with full-center brushes; Fig. 4, a plan of Fig. 2; and Fig. 5, a side elevation of the ends of the bridle, Fig. 4, showing the hooks upon the ends of the wires.

A is the handle of a paint brush; B, the bristles; C, a hole in the handle; D, a set screw passing through the handle and the point of which is adapted to enter the hole C.

α is a stem or rod which is adapted to be placed centrally in the brush and one end of which is passed into the hole C in the handle A and the other end of which carries loose arms b which pass out through the bristles of

the brush and the ends of which are adapted to engage a ring or band c , preferably of metal, which passes around outside the bristles of the brush and which forms the bridle to hold the bristles in place while the brush is in use.

In the drawings I have shown the arms b furnished with hooks at their ends. In a full center brush the hooks upon their inner ends are adapted to engage eyes in a head upon the outer end of rod or stem α , as shown in Fig. 3 and the hooks upon their outer ends pass over and secure the ring or band c , and while I consider this construction preferable I do not desire to confine myself to it as it may be considerably modified without departing from the spirit of my invention.

The band or ring c may be endless, but for convenience of placing it around the brush I prefer to make it as shown, that is, with its ends furnished with hooks d which are adapted to interlock.

If the bridle is to be used in connection with an open center brush the outer end of the stem α may carry a small brush e , Fig. 1, which is of a size to fill up the open center and to practically make a full center out of an open center brush, or the end of the stem may be furnished with a cylindrical piece of metal or wood f , Figs. 2 and 4, which would take the place of the cork usually used in connection with an open center brush.

By means of the set screw D the stem α may be secured in any position in the hole C, and by loosening this screw the stem α and the bridle band c may be moved in or out to adjust the bridle as desired.

When it is desired to clean the brush the bridle band and its connected parts may be completely removed from it.

While I have shown in the drawings my device applied only to round brushes it will be understood that it may be applied equally well to oval, flat or other brushes, it being only necessary to construct the bridle band c of the proper form, to change the lengths of arms b as may be required for the particular shape of the brush, and, if the brushes have open centers, to construct the cork of the shape of the center.

Having thus described my invention, I claim—

1. The combination with a brush of a stem adapted to be placed centrally in the brush and the inner end of which enters a hole in the handle, a center brush carried by the outer
5 end of said stem, a set screw passing through the side of said handle and adapted to engage and hold said stem, a bridle band passing around the bristles of said brush, and arms
10 one end of each of which is carried by the outer end of said stem and the other end of each of which is furnished with a hook adapted to engage and hold said bridle band, all
15 substantially as and for the purposes set forth.
2. The combination with a brush of a stem adapted to be placed centrally in the brush

and the inner end of which enters a hole in the handle, a set screw passing through the side of said handle and adapted to engage and hold said stem, a bridle band passing around the bristles of said brush, and arms
20 one end of each of which is carried by the outer end of said stem and the other end of each of which is furnished with a hook adapted to engage and hold said bridle band, all
25 substantially as and for the purposes set forth.

WATSON S. GRAY.

Witnesses:

MORRIS R. BOCKIUS,
CHAS. A. RUTTER.