T. J. CONNELL.

Brush.

No. 200,434. Patented Feb. 19, 1878.

Fig: 1.

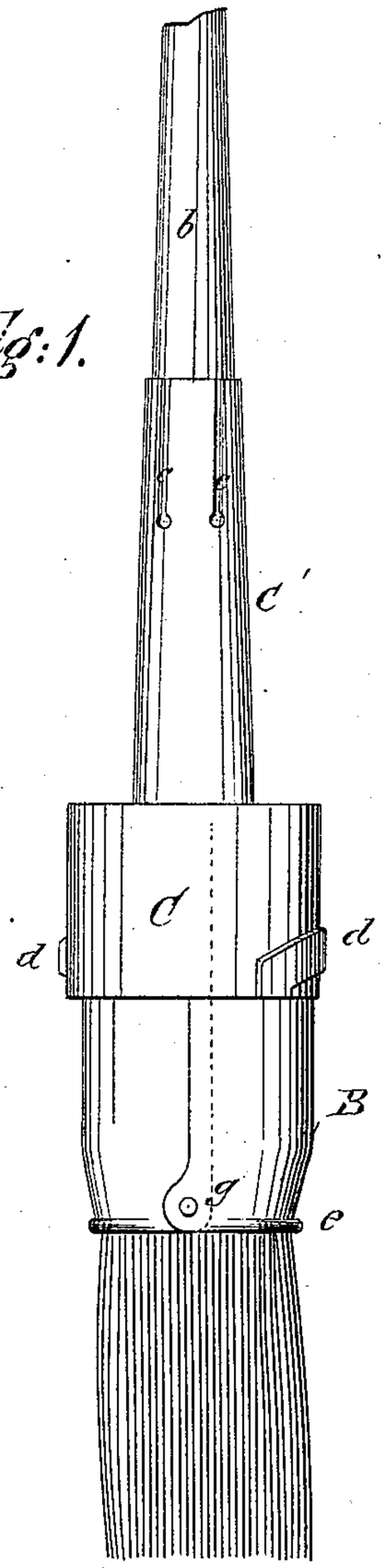


Fig: 2.

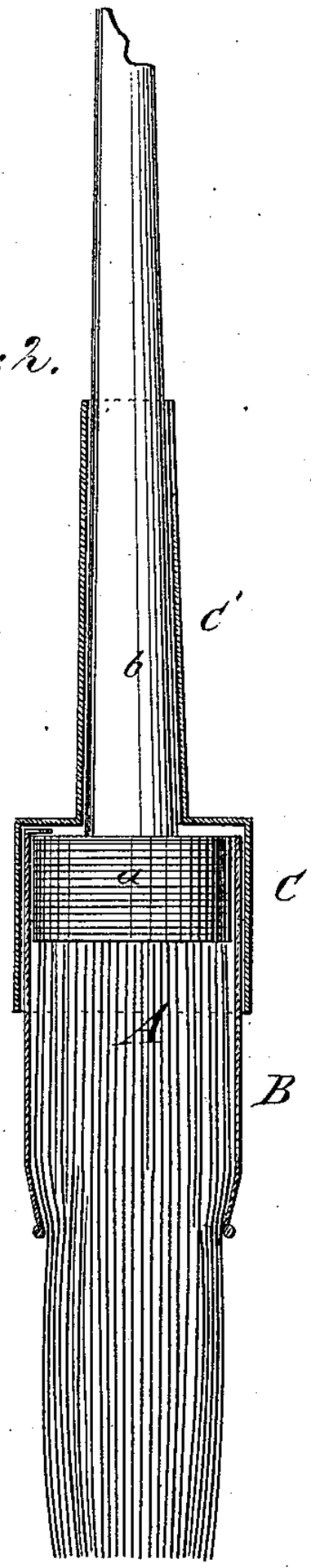
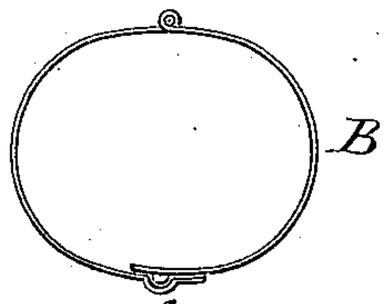


Fig: 3.



WITNESSES:

Chas. Nida.

J. H. Scarborough.

INVENTOR:

T. J. Connell.

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

TIMOTHY J. CONNELL, OF MERRIMAC, MASSACHUSETTS.

IMPROVEMENT IN BRUSHES.

Specification forming part of Letters Patent No. **200,434**, dated February 19, 1878; application filed September 14, 1877.

To all whom it may concern:

Be it known that I, TIMOTHY J. CONNELL, of Merrimac, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Paint-Brush Bridles, of which the following is a specification:

This invention has relation to devices for stiffening the bristles of paint-brushes, so that a new brush may be made to work just as well as a brush which has been used some time.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

In the annexed drawings, Figure 1 is a side view of my improved bridle applied to a common paint-brush. Fig. 2 is a diametrical section through the bridle applied to a brush. Fig. 3 is a horizontal section through the bridle, showing its two semicircular sections hinged together in a direction with their length and a clasp applied for holding them firmly about the bristles of a brush.

Similar letters of reference indicate corresponding parts.

The letter A designates what is denominated a "paint-brush," *a* designating the head of the brush, and *b* the handle thereof. B designates the bridle or clasping device for the bristles, which bridle is composed of two parts, longitudinally divided and pivoted together at *g* by means of rivets.

Instead of rivets, hinges may be used, and instead of hinging or pivoting the two parts of the bridle together as shown in Fig. 1, I may pivot or hinge them together as shown by Fig. 3, in which case a fastening, *f*, of a suitable kind will be necessary.

I prefer to contract the lower beaded end of the bridle B, and to flatten it somewhat, so that it is elliptical. This will flatten the brush, which is very desirable for many reasons known to painters.

C designates a cup-ferrule, on which is formed a long clasping-tube, C′, for the handle *b* of the brush.

The ferrule is made and so applied that when it is slipped on the brush-head *a*, and over the upper ends of the sections forming the bridle B, these sections will be firmly held about the bristles and their head, as shown by Fig. 1.

The ferrule C may be secured rigidly in its place by a bayonet-fastening, *d*, or by any other suitable means.

I permanently secure on the ferrule C a tapered tube, C′, which receives through it the handle *b* of the brush, and which may be made of any desired length. The upper or smallest end of this tube C′ is slit longitudinally, so as to leave spring-tongues *c*, which will firmly clasp the handle *b* and aid in holding the ferrule in its place after adjustment.

It will be seen from the above description that the bridle or clasping portion B can be quickly adjusted on the brush and held firmly in its place.

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

1. A brush-bridle, B, having its sections pivoted at lower end and held at upper end by a cup-ferrule, as shown and described.

2. The reversible and adjustable brush-bridle B, drawn in or contracted at the lower end, the bristles being allowed to spring out above and below the contraction, as shown and described.

3. The brush-ferrule C, having extension-tube C′, with spring-fingers at the end, to allow the ferrule and bridle to be vertically adjusted, as specified.

TIMOTHY J. CONNELL.

Witnesses:
C. SEDGWICK,
ALEX. F. ROBERTS.