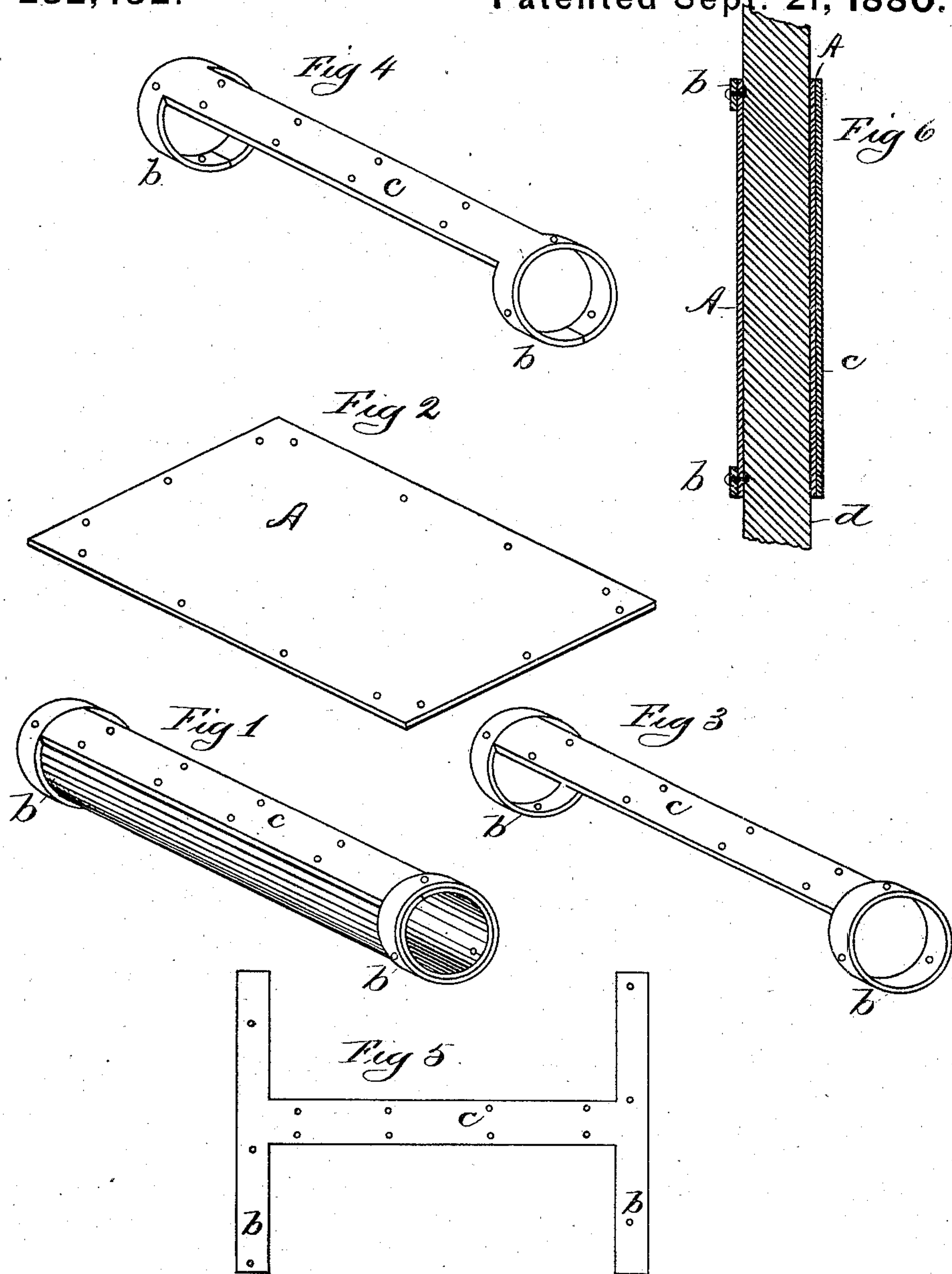


(Model.)

H. J. BUSH.
Whip Ferrule.

No. 232,452.

Patented Sept. 21, 1880.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY J. BUSH, OF WESTFIELD, MASSACHUSETTS.

WHIP-FERRULE.

SPECIFICATION forming part of Letters Patent No. 232,452, dated September 21, 1880.

Application filed August 9, 1880. (Model.)

To all whom it may concern:

Be it known that I, HENRY J. BUSH, a citizen of the United States, residing at Westfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Whip-Ferrules, of which the following is a specification.

My invention relates to ferrules used in trimming whips; and the object thereof is to provide a ferrule which can be manufactured in a greater variety of ornamental styles than one made of metal only, as is usual.

I attain the above-named object by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a complete ferrule embracing my improvements. Fig. 2 is a plan view of the ferrule-body flattened out. Fig. 3 is a perspective view of the ferrule-frame. Fig. 4 is a perspective view of a ferrule-frame made from a single piece of metal. Fig. 5 is a plan view of the frame, Fig. 4, flattened out. Fig. 6 is a longitudinal section of a whip-stock and the ferrule thereon.

In the drawings, A is the body of the ferrule. *b b* are end rings. *c* is the seam-strap, and *d* is the whip-stock.

Similar letters refer to similar parts in the drawings.

The peculiar construction of my ferrule provides for almost an infinite variety of ornamental effects by varying the material from which I make the body A, and by finishing the metallic parts *b b* and *c* in the various ways afforded by metal, such as gold and silver plating, &c.

The body A, I make of sheet-celluloid or other similar plastic or semi-plastic material, rolled to the proper thickness and width. Celluloid affords a great variety of colors, and is very strong, besides being water-proof, and hence is one of the best materials from which to make said body, although rubber and other materials suitable therefor may be employed, upon which a variety of ornamental designs may be executed.

The body A is rolled into tubular form, bringing its longest edges together, and the rings *b b* are slipped onto its ends and there riveted, said body and rings being perforated, as shown, for that purpose, and the seam-strap *c* is in like manner riveted over the edges of the body, as seen in Fig. 1, making a firm, durable, and very handsome ferrule, which can be forced onto a whip-stock like a metal ferrule.

If preferred, the rings *b* and the seam-strap *c* may be made from one piece of metal of the form shown in Fig. 5, afterward being bent into that shown in Fig. 4, when the metallic and the body part A may be riveted together, as just described.

What I claim as my invention is—

As an improved article of manufacture, a whip-ferrule consisting of the body A, of non-metallic flexible material, and the metallic end rings *b*, and seam-strap *c*, all secured together, substantially as and for the purpose set forth.

HENRY J. BUSH.

Witnesses:

ANDREW L. BUSH,
E. A. BUSH.