

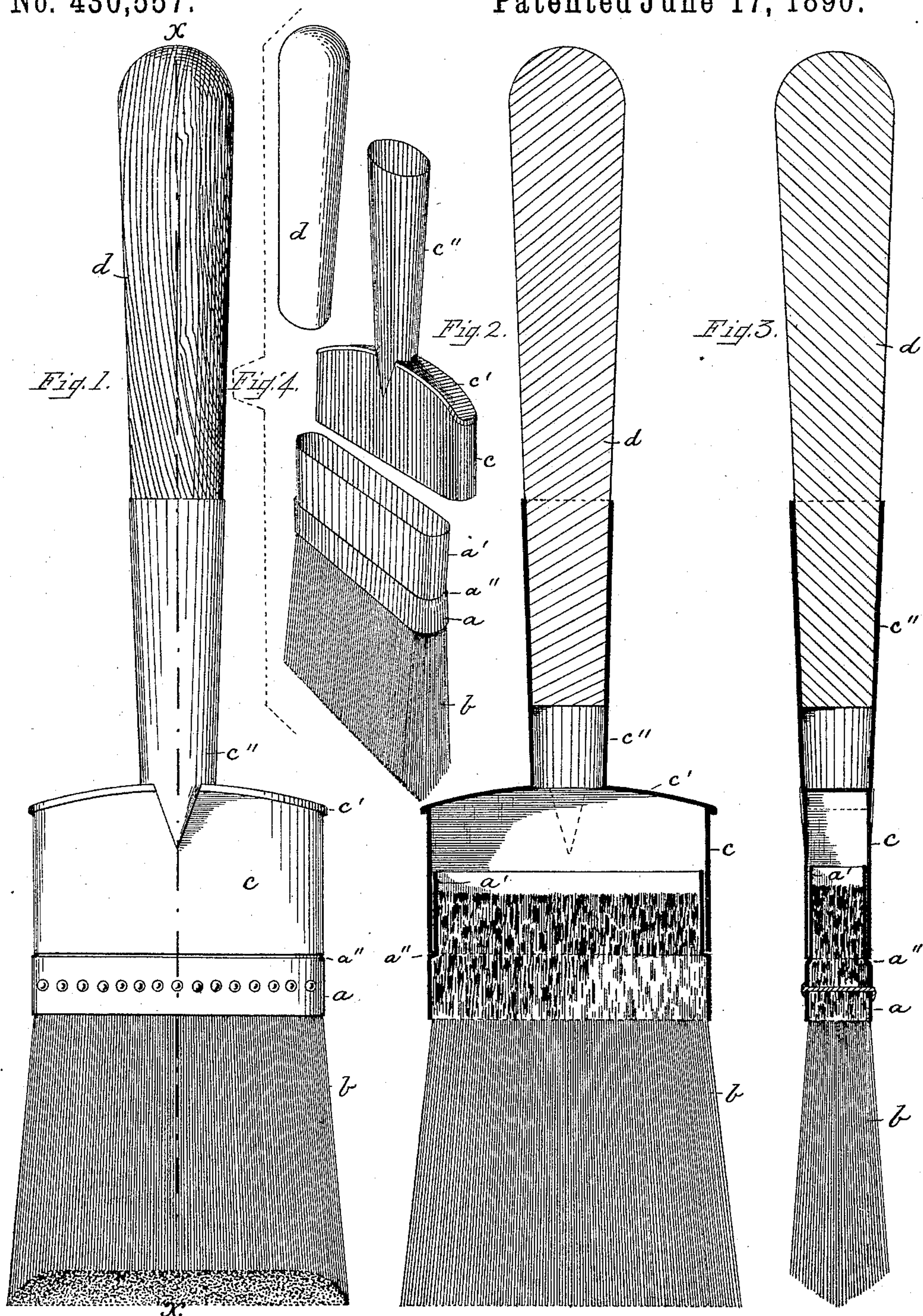
(No Model.)

A. H. WOLCOTT.

BRUSH AND MODE OF MAKING THE SAME.

No. 430,557.

Patented June 17, 1890.



Witnesses
Martha J. Jackson.
Emma J. Smith.

Inventor.
Arthur H. Wolcott.
by Alban Andrieu, his atty.

UNITED STATES PATENT OFFICE.

ARTHUR H. WOLCOTT, OF WINTHROP, ASSIGNOR TO JOHN L. WHITING & SON,
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BRUSH AND MODE OF MAKING THE SAME.

SPECIFICATION forming part of Letters Patent No. 430,557, dated June 17, 1890.

Application filed October 4, 1889. Serial No. 326,001. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR H. WOLCOTT, a citizen of the United States, and a resident of Winthrop, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Brushes and Mode of Making the Same, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to that type of brushes wherein the bristles are secured in a shouldered ferrule and an independent handle-carrying shell is secured to the ferrule. In the prior construction the ferrule and shell are screwed together, and consequently they are necessarily true circles in cross-section, which limits the construction to a cylindrical brush.

The object of my invention is to improve the prior devices by providing such construction that brushes which are flat or oblong in cross-section are produced and screw-threads are avoided. To accomplish this object my invention involves the features of construction and the combination or arrangement of parts hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of a brush embodying my invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a vertical section on the line xx , Fig. 1. Fig. 4 is a perspective view showing the parts of the brush separated.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

In the drawings, the letter a indicates the metal ferrule, in which the bristles b are secured in any well-known or suitable manner, this ferrule a being in one piece with the upwardly-projecting neck or extension a' , which is slightly reduced in diameter to form an internal and external offset a'' , as shown. In connection with the ferrule a a' , I use the flattened metal shell c , open in its lower end and having attached to its upper end the

flanged cap c' , to which is soldered a metal handle-socket c'' for receiving the handle d .

In making the improved brush the bristles b are inserted and fastened in the ferrule a , after which the reduced portion a' of said ferrule is inserted into the lower end of the shell c , and the said shell and ferrule are soldered together at the shoulder or offset a'' , thus producing a very neat and strong union between the parts mentioned.

The reduced tubular neck a' is smooth on its exterior surface to easily slide into the smooth interior of the independent handle-carrying shell, whereby a brush can be produced which in cross-section is flattened or of any outline desired. This result cannot be attained where the ferrule and shell are screwed together, and therefore I do not claim the latter construction.

The reduced neck a is formed by compression of the metal in such manner that the offset a'' is inside as well as outside the ferrule, and thus the internal shoulder abuts the bristles and the reduced neck compresses the butt-ends of such bristles, the construction being such as to produce brushes which are flattened or oval in cross-section.

Having thus described my invention, what I claim is—

A flattened brush consisting of a ferrule flattened in cross-section and having the internal and external offset and the reduced externally-smooth neck to compress the butt-ends of the bristles inserted therein, and the independent handle-carrying shell flattened in cross-section and having an internally-smooth portion slipped over the reduced smooth neck of the ferrule and soldered thereto, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 26th day of September, A. D. 1889.

ARTHUR H. WOLCOTT.

Witnesses:

ALBAN ANDRÉN,
MARTHA J. JACKSON.