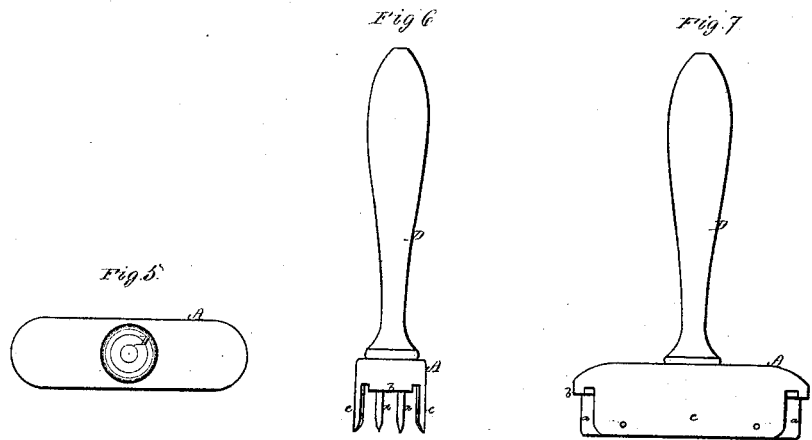
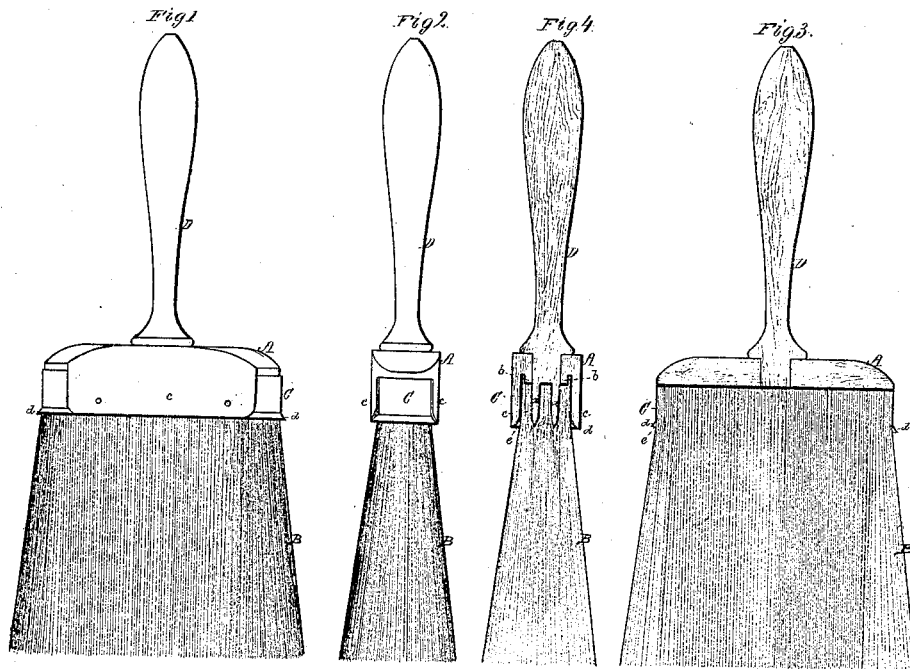


*J. L. Whiting,*

*Brush.*

*No. 109,084.*

*Patented Nov. 8, 1870.*



Witnesses.

*S. A. Piper.*

*J. L. Knowlton*

John L. Whiting

by his attorney

*R. H. Eady*

# United States Patent Office.

JOHN LAKE WHITING, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 109,084, dated November 8, 1870.

## IMPROVEMENT IN BRUSHES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all persons to whom these presents may come:*

Be it known that I, JOHN LAKE WHITING, of Boston, of the county of Suffolk and State of Massachusetts, have made a new and useful invention having reference to Brushes; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawing, of which—

Figure 1 denotes a side elevation.

Figure 2, an end view.

Figure 3 a longitudinal section; and

Figure 4, a transverse section of a brush containing my invention.

Figure 5 is a top view.

Figure 6, an end view; and

Figure 7, a side elevation of the stock, as separated from the ferrule and mass of bristles.

In such drawing—

A denotes the stock or bristle-supporting body of the brush;

B the mass of bristles;

C the ferrule; and

D, the handle, the latter being projected from the stock at its middle.

The brush, as shown, is what is usually termed a "flat tool or brush," it being of the character of the ordinary "whitewash" brush.

The stock, besides being constituted with two or any other suitable number of wedged or other proper-shaped projections, *a a*, to extend into the mass of bristles, and also with a shoulder or shoulders, *b*, to enter the ferrule, is made with two broad lips, *c c*, projecting from it, and extending up and against the ferrule on its opposite sides, in manner as represented in the drawing.

Through the said lips, the ferrule, and the mass of bristles, rivets or screws may be extended to fasten the whole together.

Furthermore, the ferrule is formed with a trumpet or flaring mouth, as shown at *d d*, such serving to con-

stitute a channel, *e*, around the bristles, and to prevent them, while the brush may be in use, from being borne against the edge of the ferrule and cut or injured thereby.

The channel serves, also, to catch and arrest any paint or liquid which, after running down on the bristles, would be likely to run upon the stock and drop from it while the brush may be in use.

The lips *c c* support the ferrule and prevent it, under the strains to which it may be subjected, from working off the shoulder and loosening the bristles.

The bristles are to be secured in the ferrule, and against one another, and the parts of the body with which they may be in contact, by cement.

I make no claim to any device, combination, or arrangement of devices as set forth and represented in either of the United States Patents, Nos. 41,060, 67,726, or in the rejected application of George A. White, filed January 17, 1867, or in the rejected application of N. T. Whiting, filed April 12, 1865.

I claim in the above-described brush the following, that is to say:

1. The stock as made, with the shoulder *b* and the lips *c c*, arranged as described.
2. The stock as made, with the lips *c c*, and one or more projections, *a*, to enter the bristles, as described.
3. The stock as made, with the lips *c c*, the shoulder *b*, and one or more projections, *a*, arranged as described.
4. The brush as made, with the lips *c c*, and the ferrule *C*, arranged with the stock *A* and bristles *B*, as set forth.
5. The brush as made, with the lips *c c*, and one or more projections, *a*, arranged with its stock *A*, and ferrule *C*, as described.

JOHN L. WHITING.

Witnesses:

R. H. EDDY,

J. R. SNOW.