

No. 621,414.

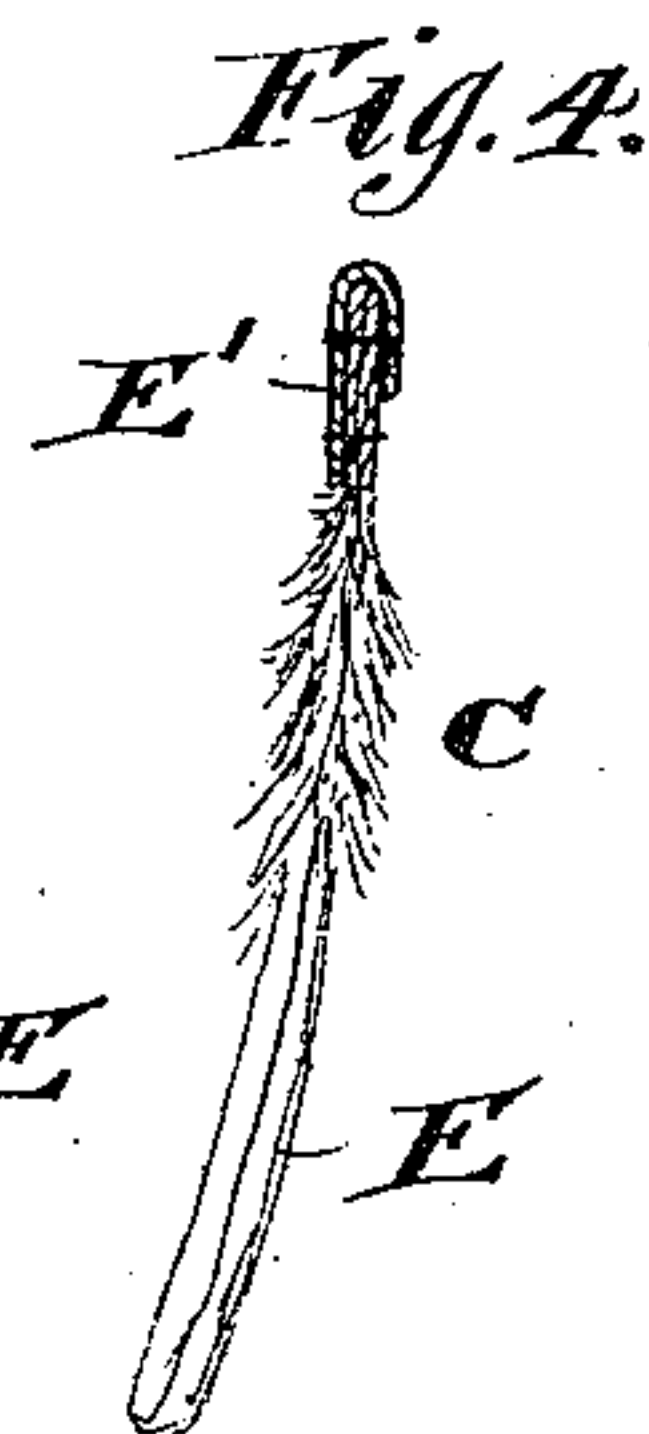
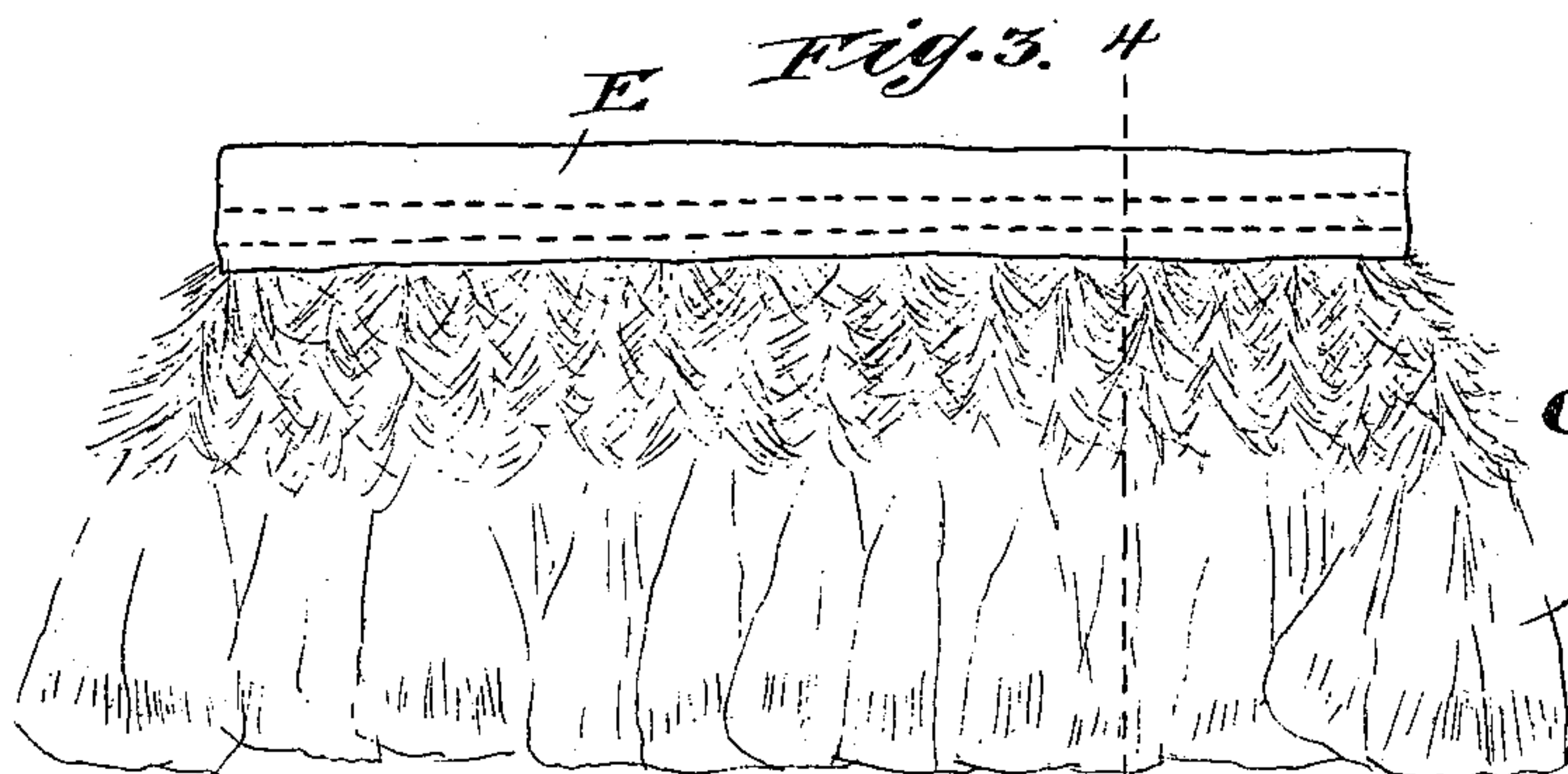
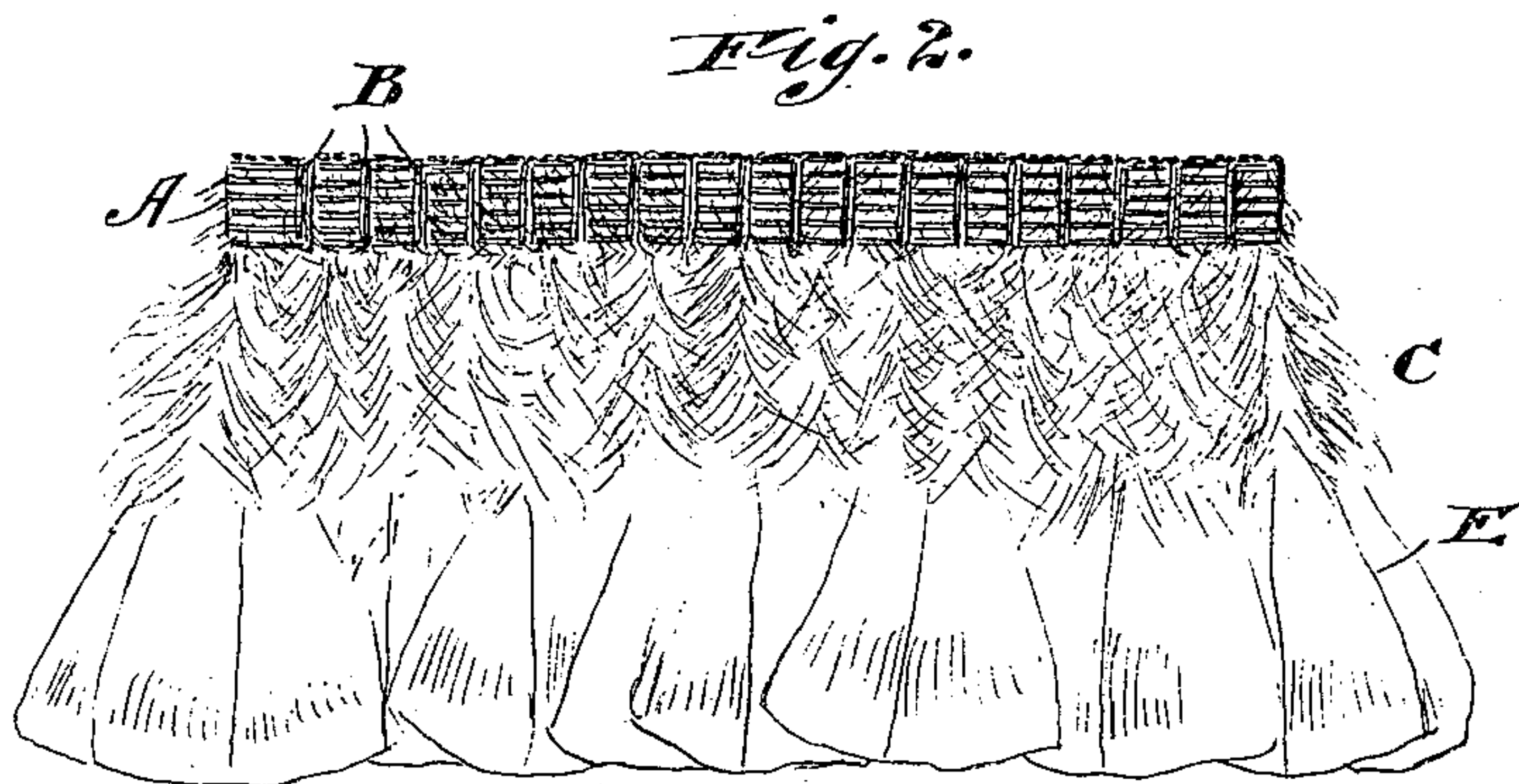
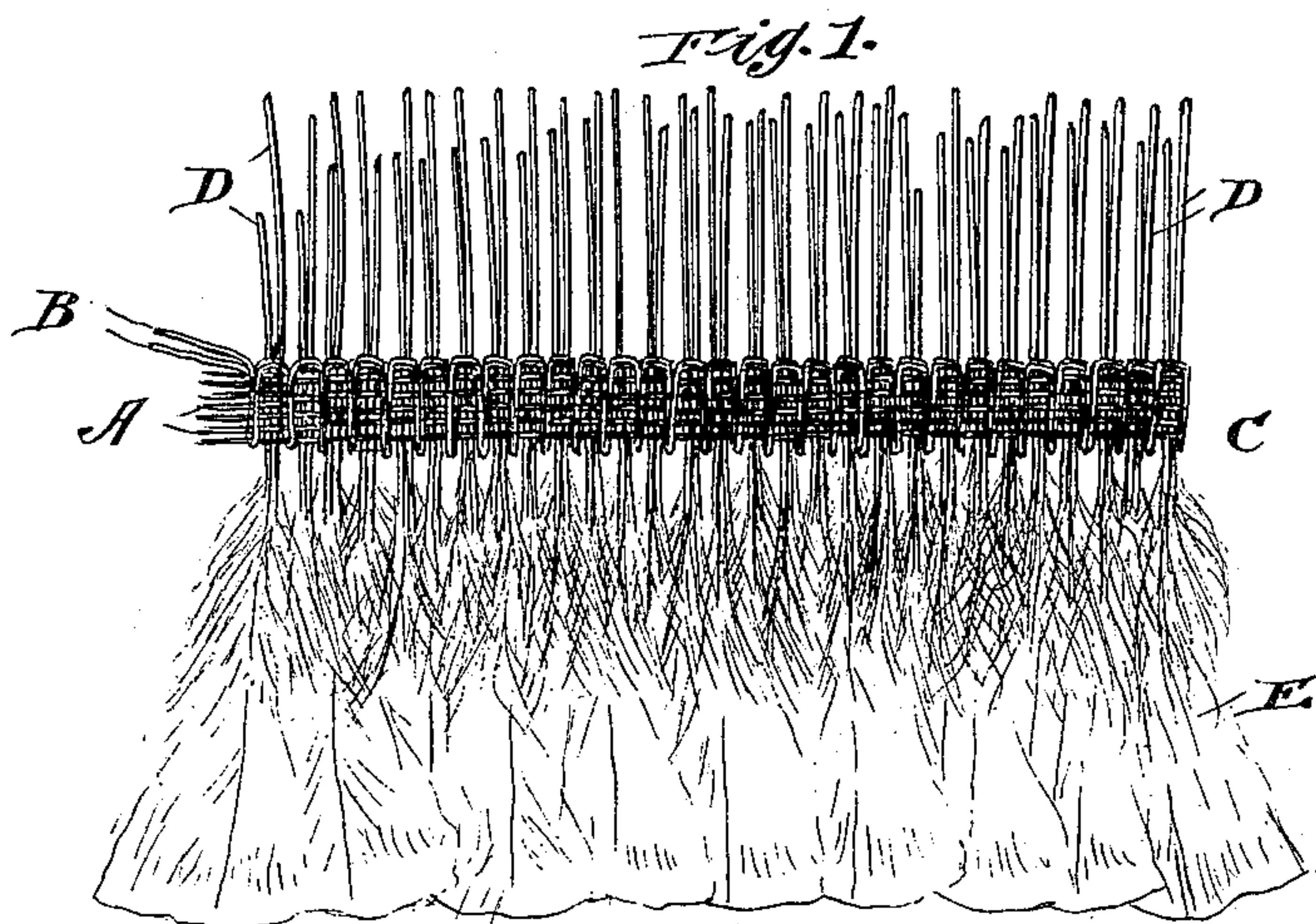
Patented Mar. 21, 1899.

W. E. HOAG.  
FEATHER BRUSH.

(Application filed Jan. 18, 1899.)

(No Model.)

2 Sheets—Sheet 1.



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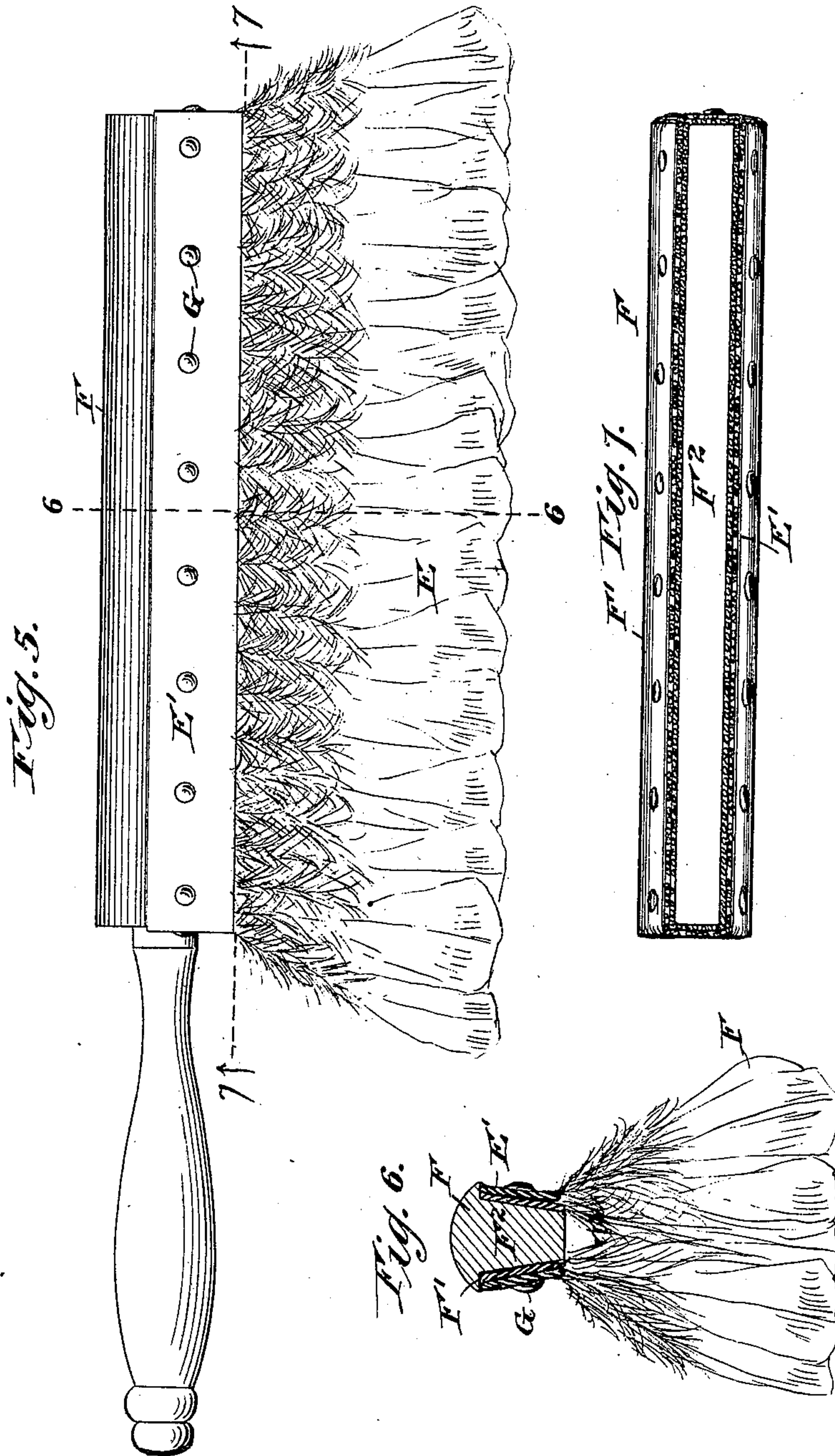
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# UNITED STATES PATENT OFFICE.

WILLIAM E. HOAG, OF ROCKFORD, ILLINOIS.

## FEATHER BRUSH.

SPECIFICATION forming part of Letters Patent No. 621,414, dated March 21, 1899.

Application filed January 18, 1899. Serial No. 702,605. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM E. HOAG, a citizen of the United States of America, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Feather Brushes, of which the following is a specification.

My invention relates to the production of feather brushes; and it consists of the hereinafter-described article of new manufacture.

Referring to the accompanying drawings, which form a part of this specification, Figure 1 is a side view of feathers woven into a band preparatory to use in the next step in the process of manufacture. Fig. 2 is a like view of the same with the free ends of the quills cut off. Fig. 3 is a like view, also of the same, with the quills cut off and bound around the quill ends of the feathers with a strip of strong fabric. Fig. 4 is a transverse section, at the line 4 in Fig. 3, of the parts there shown. Fig. 5 is a side view of a complete feather brush embodying my improvement. Fig. 6 is a transverse section, at the line 6 in Fig. 5, of the parts there shown. Fig. 7 is a horizontal section, at the line 7 in Fig. 5, of the parts there shown.

Like letters of reference indicate corresponding parts throughout the several views.

A are warp-threads of strong twine. B are woof-threads of the same material.

The feather strip C (shown in Fig. 1) is produced by alternately weaving into the warp A one or more woof-threads B with the quill or quills D of one or more of the feathers E. The woof-threads B should be well beaten into the warp A against the quills D of the feathers E in order to firmly fix them in the fabric portion of the strip C, which obviously may be woven of any desired length, being limited only by the length of the warp A. The feather strip C being produced in the manner already described, the quills D of the feathers E are cut off close to the edge of their retaining fabric, composed of the warp-threads A and woof-threads B, as shown in Fig. 2. A strip of strong firm ornamental material E', preferably glazed oil-cloth, of any desired color is next turned over the quill ends of

the feathers E, Fig. 4, and securely stitched to the fabric portion of the strip C, as shown in Fig. 3.

F is a head, preferably of wood, provided with a rabbet F', Fig. 6, extending around the same, and a base portion F<sup>2</sup>.

To form the brush, the feather strip C is wound tightly around the base portion F<sup>2</sup> of the head F, Fig. 7, any desired number of times, so that the butt-ends of the bound feathers E will have a bearing on the rabbet F' on the head F, Fig. 6. Ornamental nails G are next driven through the bound fabric into the base portion F<sup>2</sup> of the head F. The brush is then complete, the glazed surface of the oil-cloth E', always being outward, constituting a handsome exterior finish.

I claim—

1. As an article of new manufacture, a brush consisting of the combination with a head, of a feather strip, formed by alternately weaving, into a warp, one or more woof-threads and the quill or quills of one or more feathers, cutting off the quills of the feathers, turning over the quill ends of the feathers a strip of ornamental material—preferably glazed oil-cloth—and securely stitching the same to the fabric portion of the feather strip, said strip being secured to the head by being wound around the same and nailed thereto, substantially as shown and described.

2. As an article of new manufacture, a brush consisting of the combination with the head provided with a rabbet, extending around the same, and a base portion, of a feather strip, formed by alternately weaving, into a warp, one or more woof-threads with the quill or quills of the feathers, turning over the quill ends of the feathers a strip of ornamental material—preferably glazed oil-cloth—and securely stitching the same to the fabric portion of the feather strip, said strip being secured to the head by being wound around the same and nailed thereto, substantially as shown and described.

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