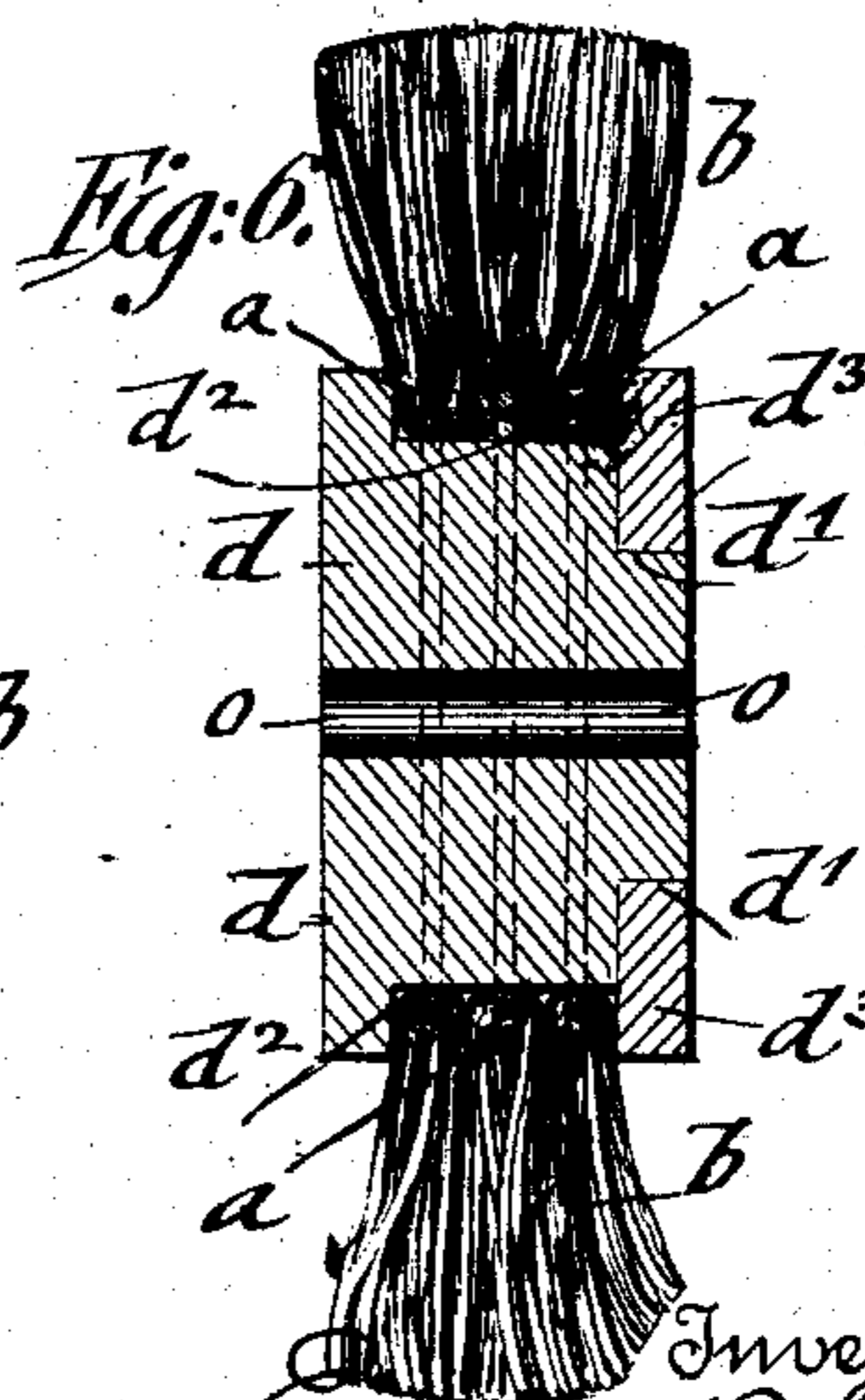
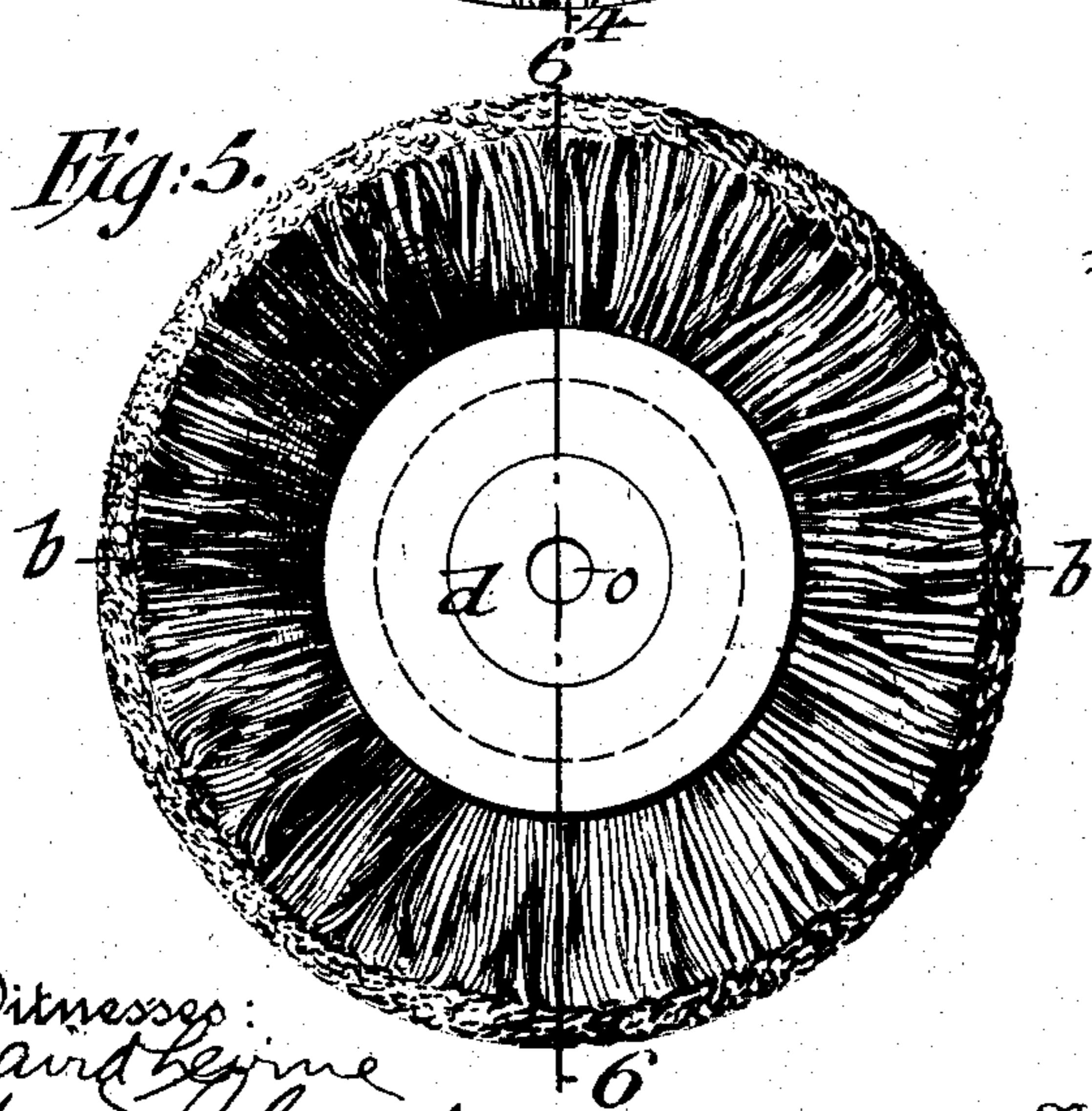
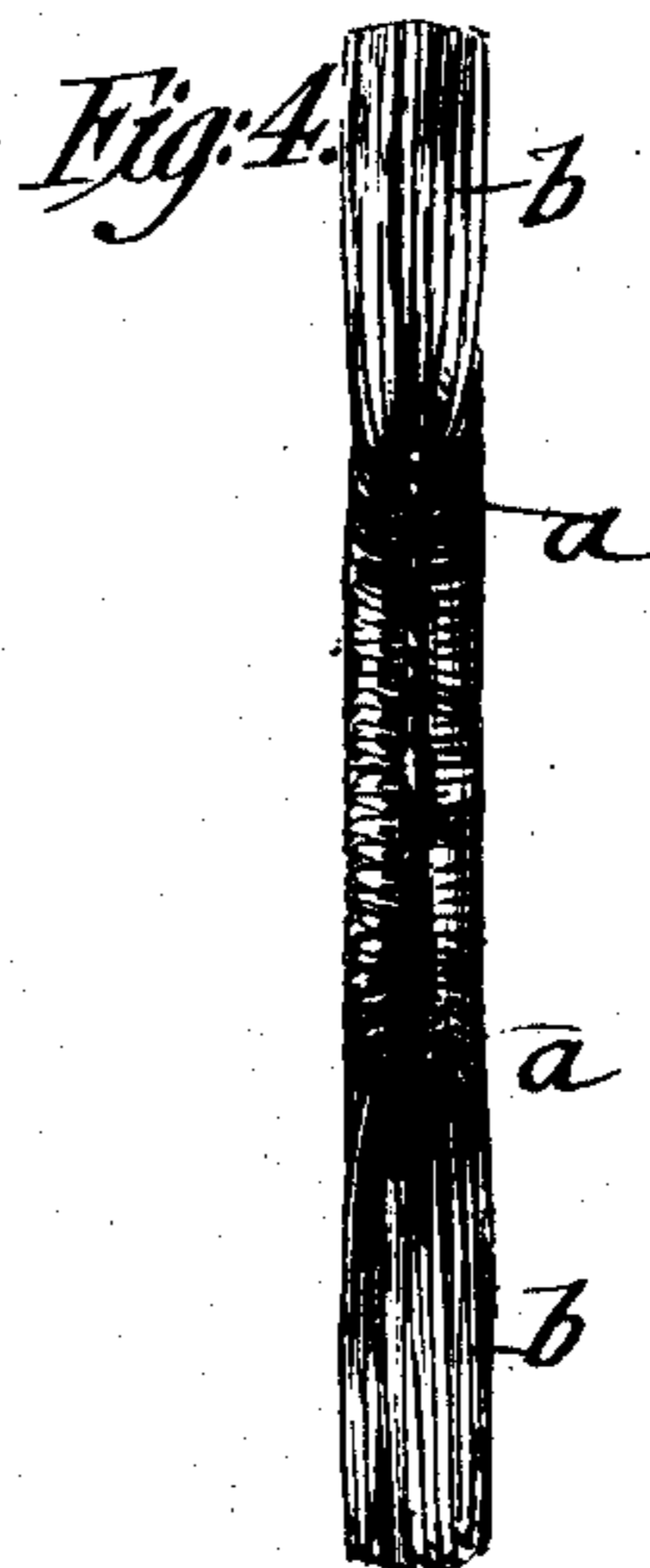
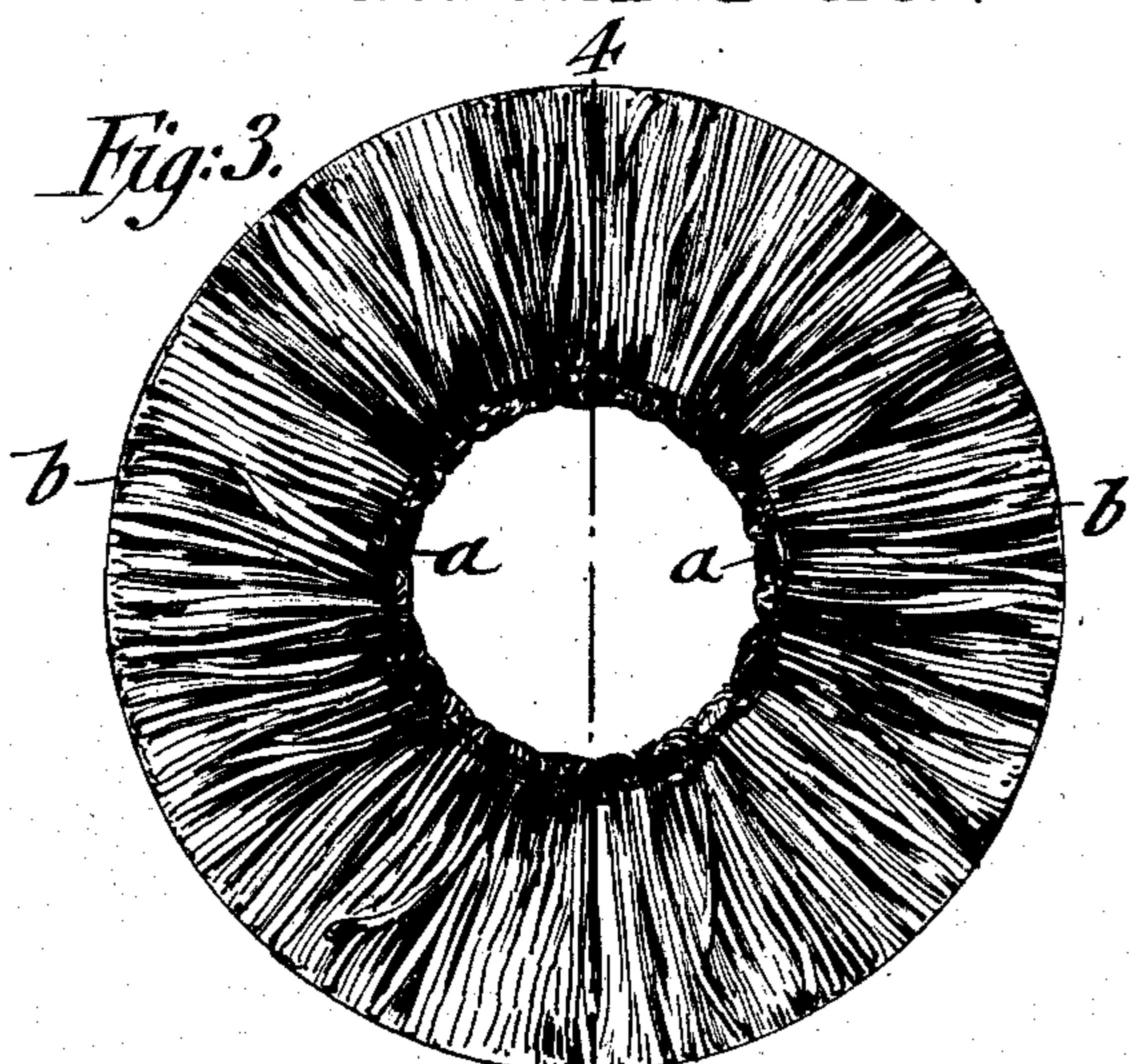
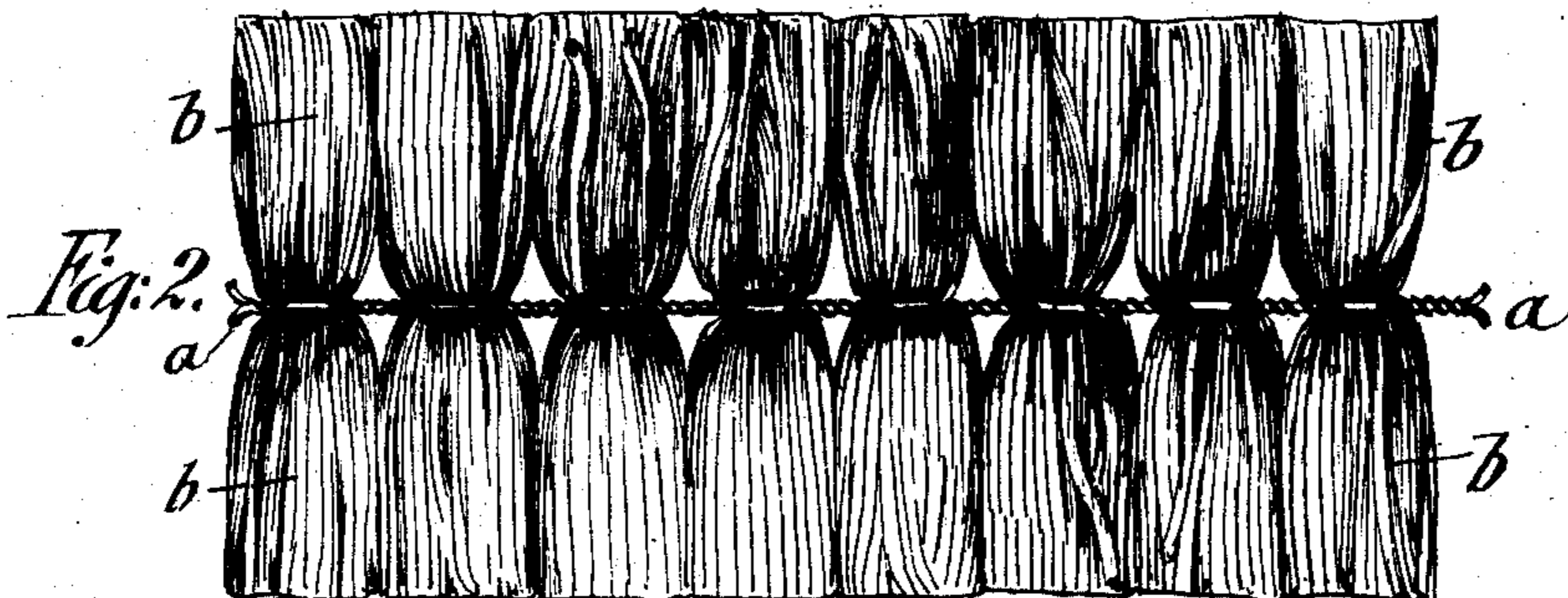
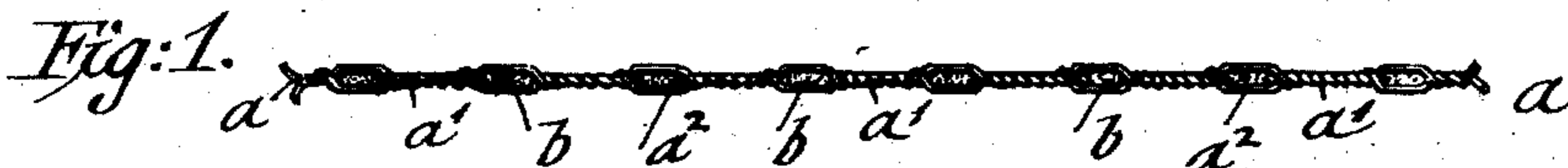


No. 865,098.

PATENTED SEPT. 3, 1907.

E. N. GAUDRON.
BUFFING AND POLISHING BRUSH.

APPLICATION FILED MAR. 30, 1907.



Witnesses:
David Levine
Henry Schubert.

Inventor
Edward N. Gaudron
By his Attorneys
J. M. L. L. L.

UNITED STATES PATENT OFFICE.

EDWARD N. GAUDRON, OF NEWARK, NEW JERSEY, ASSIGNOR TO WILLIAM DIXON, OF NEWARK, NEW JERSEY.

BUFFING AND POLISHING BRUSH.

No. 865,098.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed March 30, 1907. Serial No. 365,580.

To all whom it may concern:

Be it known that I, EDWARD N. GAUDRON, a citizen of the United States, residing in Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Buffing and Polishing Brushes, of which the following is a specification.

This invention relates to improvements in buffing and polishing brushes and to the manufacture of the same.

In the manufacture of buffing brushes as heretofore made the cotton tufts were threaded by hand into a concaved body having perforations in its circumference, which is a difficult and time-consuming operation, especially when buffing brushes of greater than the ordinary widths have to be made.

The object of this invention is to make a buffing and polishing brush which can be manufactured with great facility in any width; and the invention consists of a buffing and polishing brush which comprises a grooved center-piece provided with a central opening for being placed on a spindle, and one or more ring-shaped buffing or polishing elements seated in the groove of the center-piece and consisting of twisted and looped strands of wire and a plurality of tufts held in the loops of said strands. The invention consists further of certain details of construction which will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a sectional top-view of the wire strands into which the tufts of cotton threads, bristles or wires are twisted, Fig. 2 is a side-view of Fig. 1, showing the tufts as held by the looped and twisted wire-strands, Fig. 3 is a side-elevation of the looped tufts as they are placed on the brush, Fig. 4 is a vertical transverse section on line 4, 4, Fig. 3, Fig. 5 is a side-elevation of a finished buffing or polishing brush, and Fig. 6 is a vertical transverse section on line 6, 6, Fig. 5.

Similar letters of reference indicate corresponding parts throughout the several figures.

Referring to the drawings, *a*, *a* are two strands of wire which form a member provided alternately with twisted portions *a*¹ and looped portions *a*², the looped portions receiving tufts *b*, of cotton threads, bristles or wires, according as the brush is intended as a buffing, polishing or scratch-brush. The tufts *b* are made of suitable width and are firmly held at their middle portions in the loops by the twisted portions of the wire mem-

ber which are formed by twisting said member a number of times between the loops. When a tufted body of the required length is made up, as shown in Fig. 2, the tufts are doubled on themselves after which the looped and twisted wire-strands *a* are bent into circular form and connected at their ends, as shown in Fig. 3. One or more of the circular buffing or polishing elements thus formed are then placed in position in the circumferential groove *d*² of a wooden center-piece or stock *d* which is provided at one side with an annular groove forming a shoulder *d*¹. A tapering horn is used for working the circular tufted members onto the grooved circumference of the wooden center-piece *d*. When the center-piece is provided with the required number of tufted members or elements, a closing ring *d*³ is placed in position on the shoulder *d*¹ and glued or otherwise attached thereto so as to firmly retain the buffing or polishing elements on the center-piece or stock. The center-piece is provided with a central bore *o* by which it is placed on the operating shaft or spindle.

Any width of brush, having from a single to any desired number of circular tufted elements, can be made, as required for the work. Tufts of bristles or wires of the required length may be placed in the loops of the strands of wires in the same manner as the tufts of cotton-fiber, so as to make polishing or scratch-brushes, as desired. Brushes made in the manner described can be manufactured without requiring skilled hands and assembled in a quick and uniform manner, so that the price of the same is considerably reduced as compared to the hand-threaded brushes heretofore made.

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

1. A brush comprising a stock and an element applied to said stock and consisting of a member having loops, and tufts held in said loops, said member being twisted a number of times between said loops to secure the tufts in the latter.

2. In a brush, a buffing or polishing element comprising wire strands having a series of loops, and tufts held at their middle portions in said loops, said strands being twisted a number of times between the loops to secure the tufts therein.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

EDWARD N. GAUDRON.

Witnesses:

PAUL GOEPFEL,

HENRY J. SUHRBIER.