

W. DIXON.
JEWELER'S POLISHING BRUSH.
APPLICATION FILED JUNE 19, 1909.

960,216.

Patented May 31, 1910.

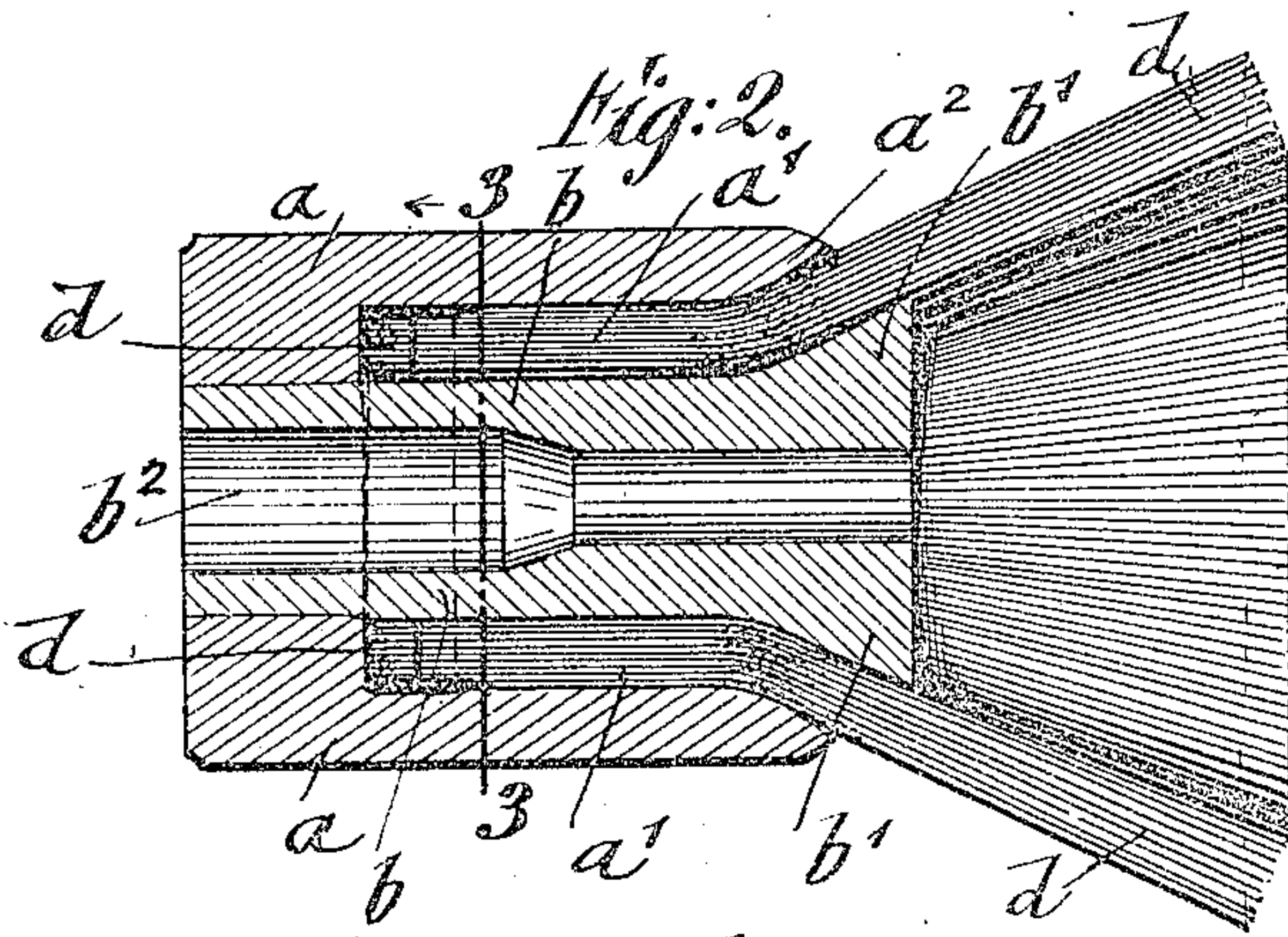
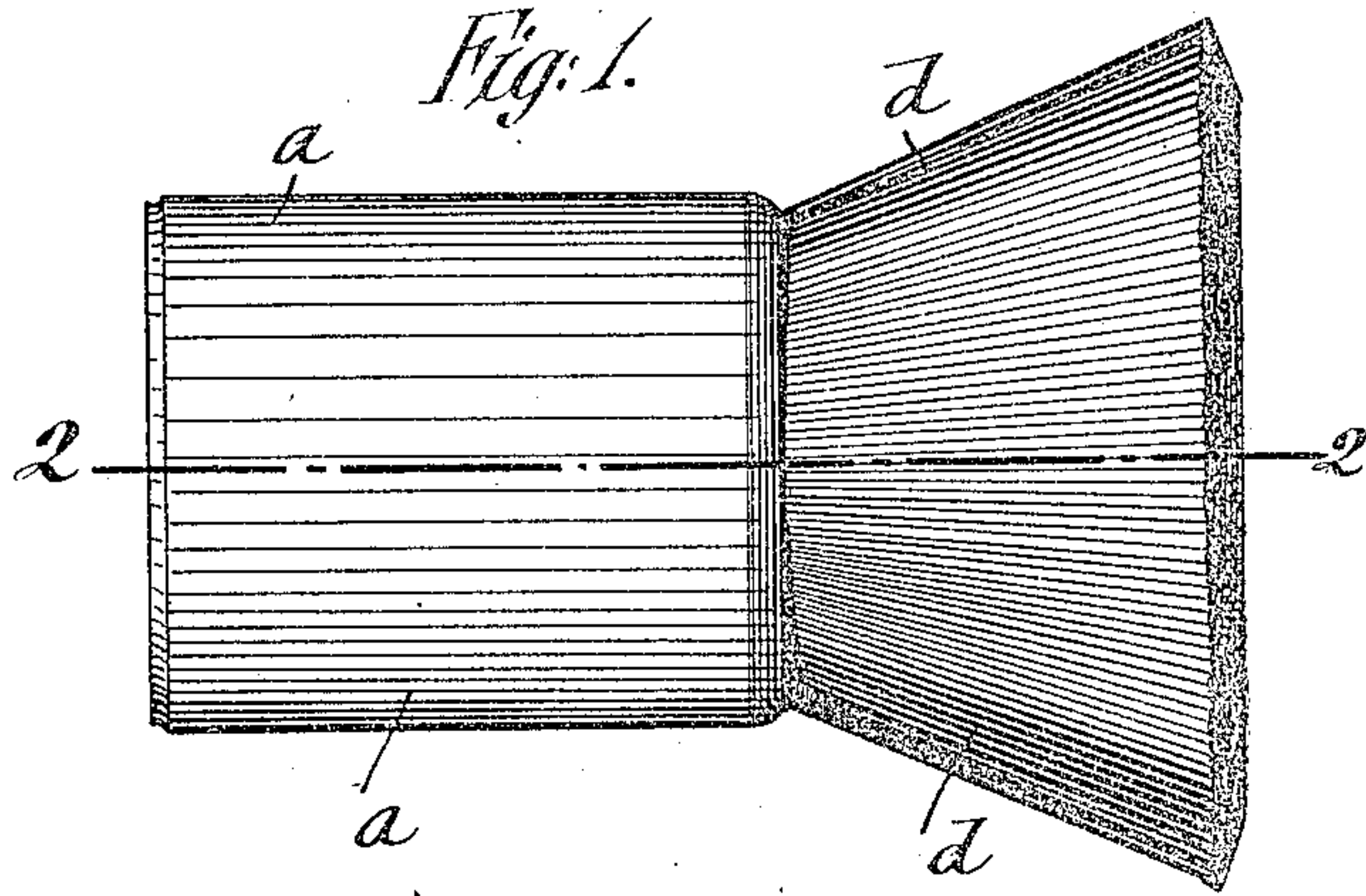


Fig. 3.

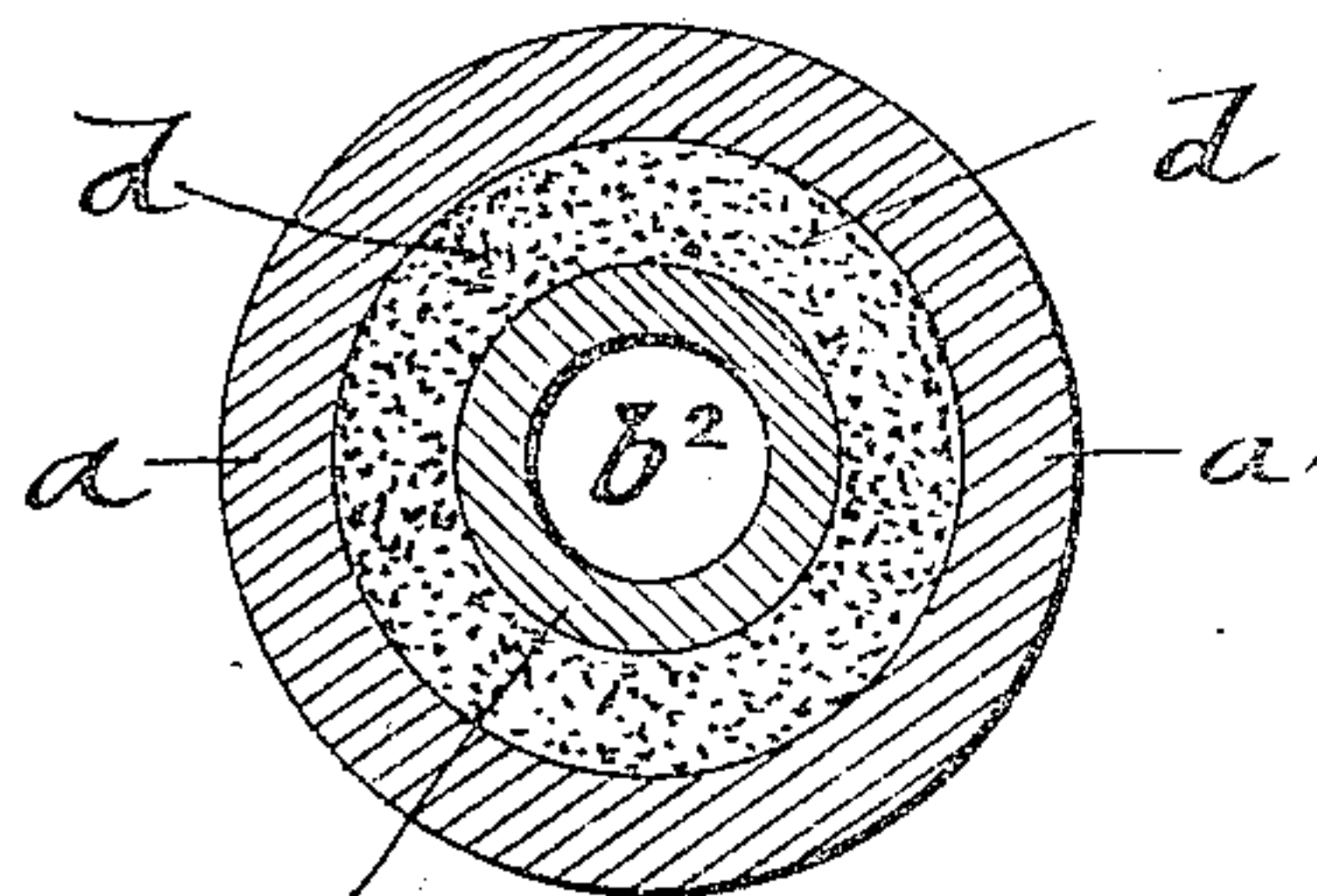
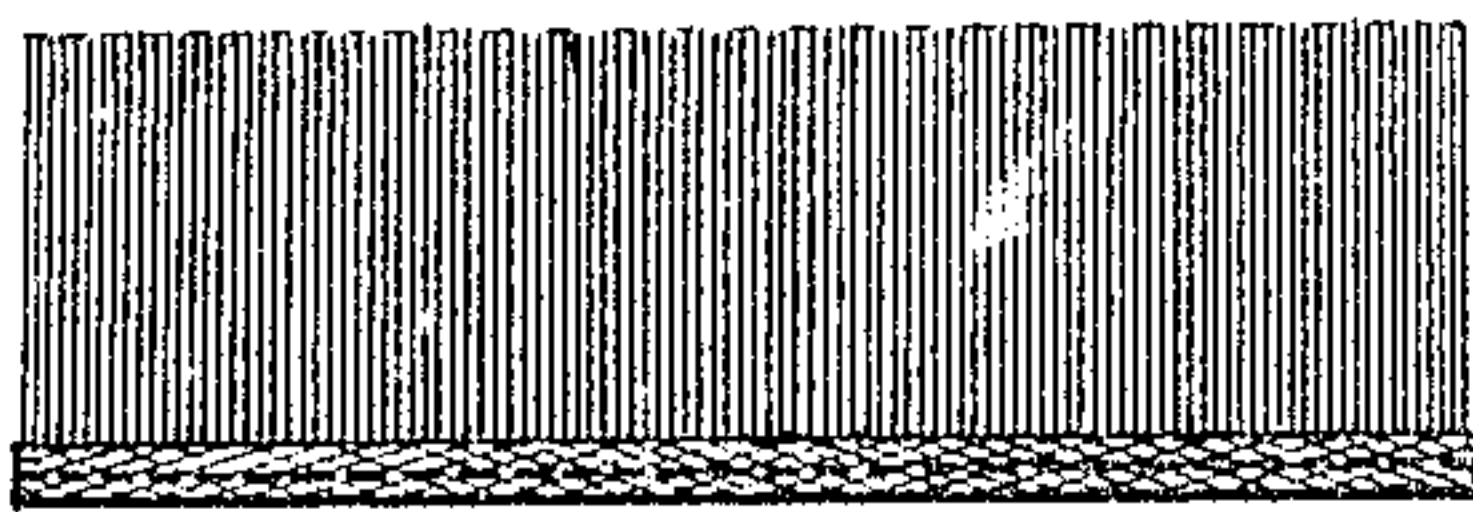


Fig. 4.



Witnesses:
J. Cook.
H. M. Kilpatrick.

Inventor
William Dixon
By *hob* Attorneys
Frank G. G. G.

UNITED STATES PATENT OFFICE.

WILLIAM DIXON, OF NEWARK, NEW JERSEY

JEWELER'S POLISHING-BRUSH.

960,216.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed June 19, 1909. Serial No. 503,071.

To all whom it may concern:

Be it known that I, WILLIAM DIXON, a citizen of the United States of America, residing in Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Jewelers' Polishing-Brushes, of which the following is a specification.

This invention relates to an improved brush for polishing jewelry, and more especially the inside and outside of watch-cases.

In the accompanying drawings, Figure 1 represents a side-elevation of my improved brush, Fig. 2 is a vertical central section of the same on line 2, 2, Fig. 1, Fig. 3 is a vertical transverse section on line 3, 3, Fig. 2, and Fig. 4 shows the stitching together of the bristles before insertion into the socket of the brush.

Similar letters of reference indicate corresponding parts throughout the views.

Referring to the drawings, *a* represents a tubular socket which is beveled at its inner forward end and provided with a cylindrical recess *a*¹ adjacent to the beveled portion *a*². A core *b* is inserted into the central opening of the socket, said core being provided with a longitudinal bore *b*² which diminishes in diameter toward the bristle-holding end for being placed on the shaft or mandrel of the polishing machine. The core *b* is provided at its end, adjacent to the beveled portion of the socket, with an outwardly-flaring conical enlargement *b*¹. Into the socket is inserted a ring *d* of bristles, which is arranged in equal thickness throughout. The ring *d* is preferably formed of a layer of bristles, which are stitched together at one end on a longitudinal strip of gauze by wire or other stitches. A bristle-strip of the required length is then cut off and placed into the recess of the socket; the inner ends of the bristles *d* being first dipped into cement. The core is then inserted into the ring of bristles and forced home into the socket until the middle portion of the bristles are firmly held between the beveled inner edge of the socket and the flaring end of the core and the outer portion of the bristle-ring bent into the form shown in Fig. 2. After the setting of the cement, the ring of bristles is firmly held in position, the inner portion being of cylindrical shape, the outer portion of conical

shape. The ring of bristles may be made of varying thickness according to the size and work to be done by the polishing brush.

The improved brush is used in the same manner as the brushes heretofore in use for polishing the inside or outside of watch-cases and other articles of jewelry by placing the longitudinal perforated core on the mandrel of a polishing machine in the usual manner.

The construction described may also be used for buffing brushes in which in place of the bristles cotton-strands are used.

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

1. A polishing brush consisting of a cylindrical socket having a cylindrical bore having at its inner end a small reduced portion forming a shoulder and, at its outer end, a beveled portion, a ring of bristles in said socket resting against said shoulder and having their inner ends secured together with a wire fabric stitched thereto, and a core having an outwardly flaring portion at its outer end and secured at its inner end in said reduced portion of the socket and tightly clamping said bristles in said cylindrical socket between said flaring and beveled portions.

2. A polishing brush consisting of a cylindrical socket having an axial bore enlarged at the outer end to form a cylindrical recess having an annular shoulder at its inner end and having a beveled portion at its outer end, a ring of bristles inserted in said cylindrical recess against said shoulder, and a core provided at its outer end with an outwardly flaring shoulder opposed to said beveled portion, said core being tightly secured at its inner end and its smaller end to the bore of said socket whereby said bristles are firmly secured to said cylindrical recess and between said flaring shoulder and said beveled portion, said core having an axial opening in each end, said openings being extended into each other, the inner opening being larger than the outer one.

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

WILLIAM DIXON.

Witnesses:

PAUL GOEPEL,
J. A. COOK.