

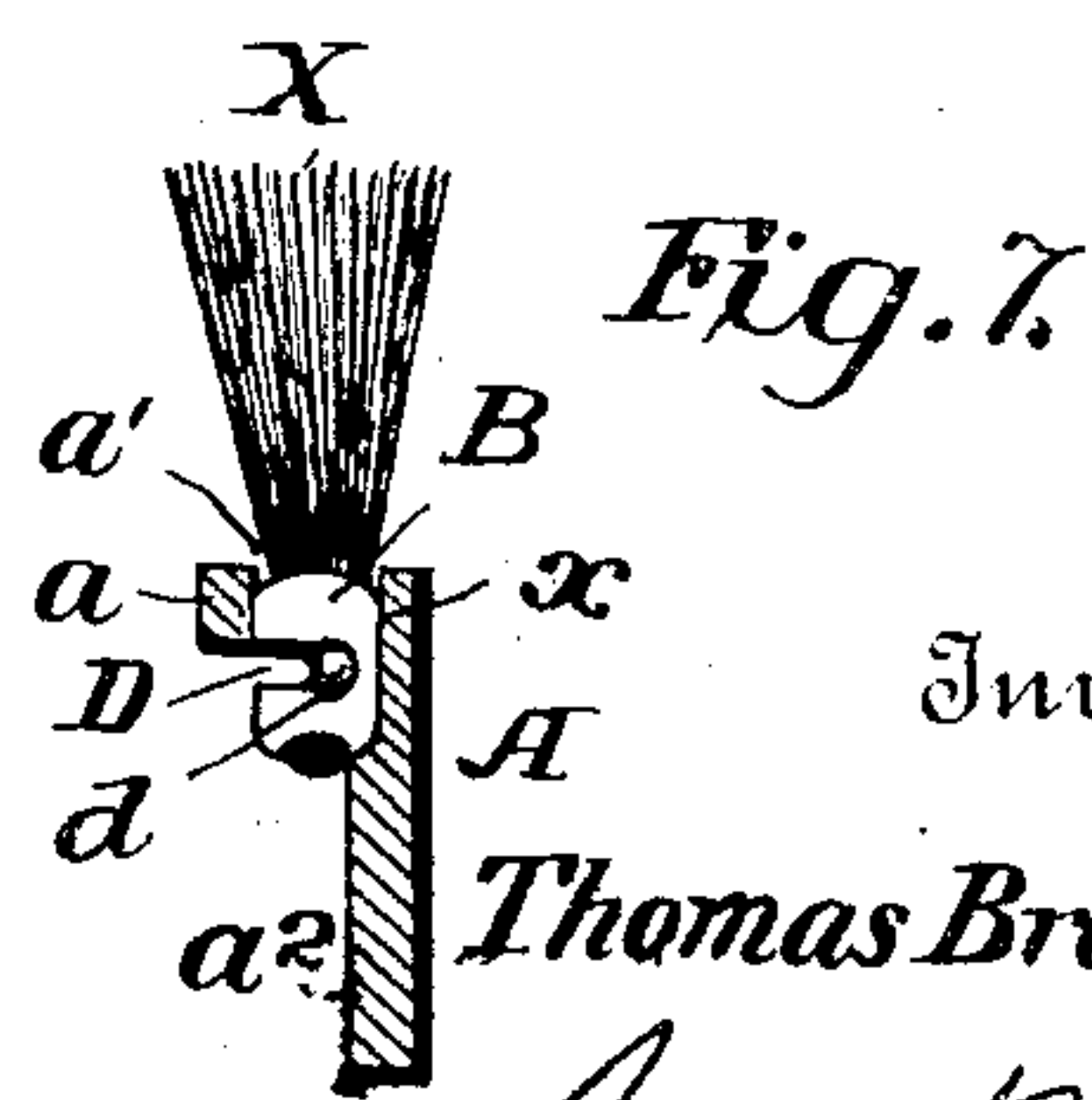
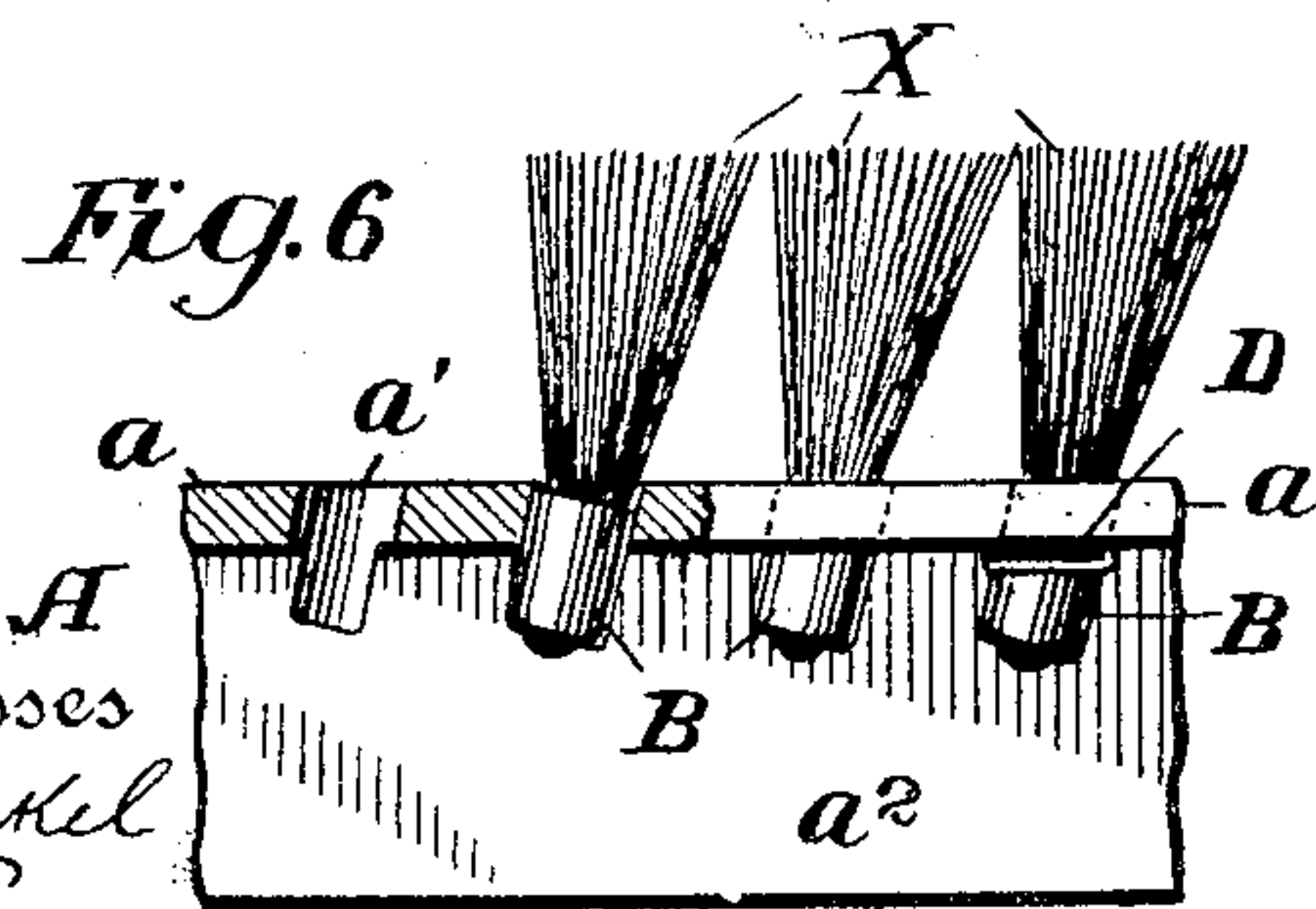
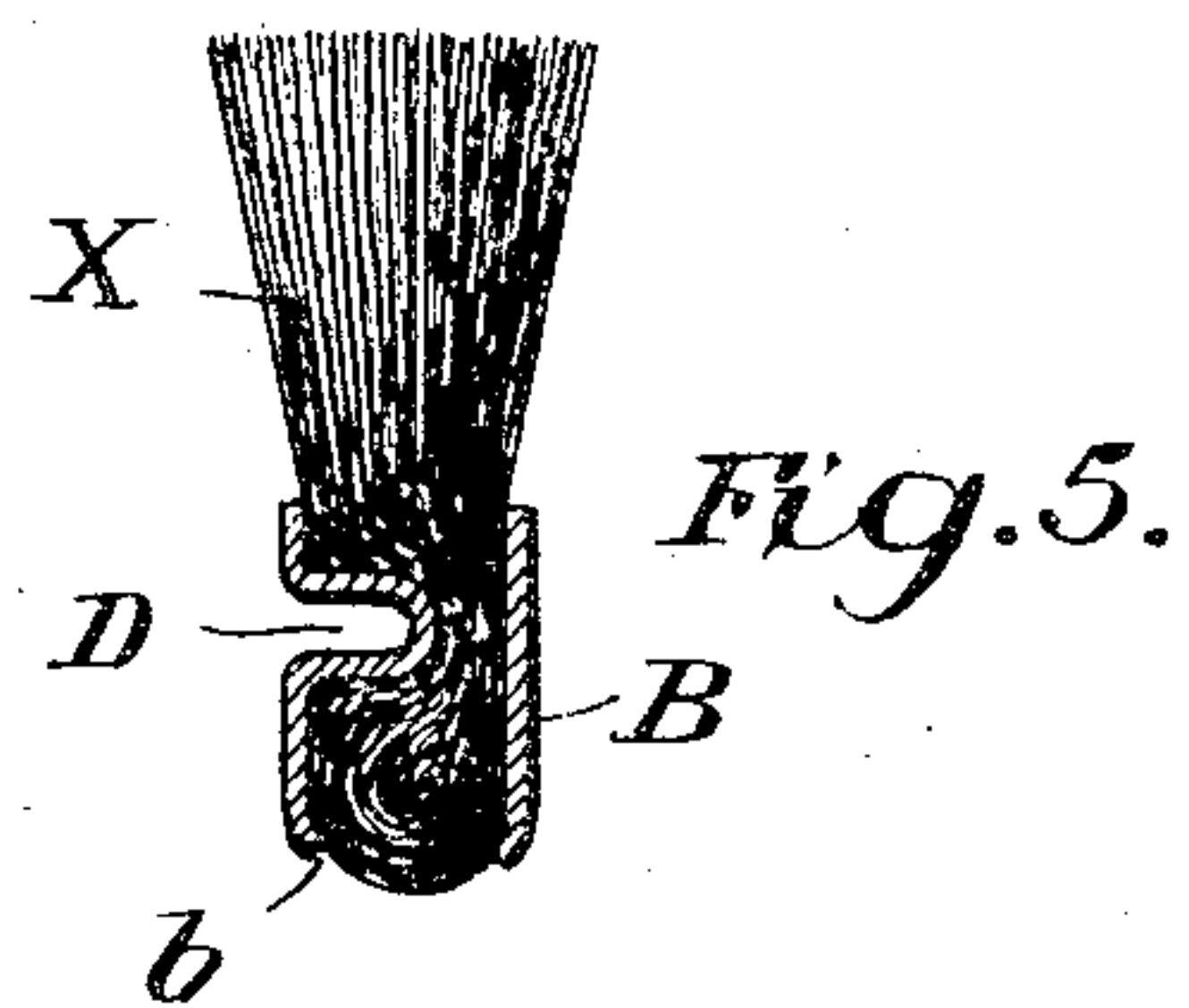
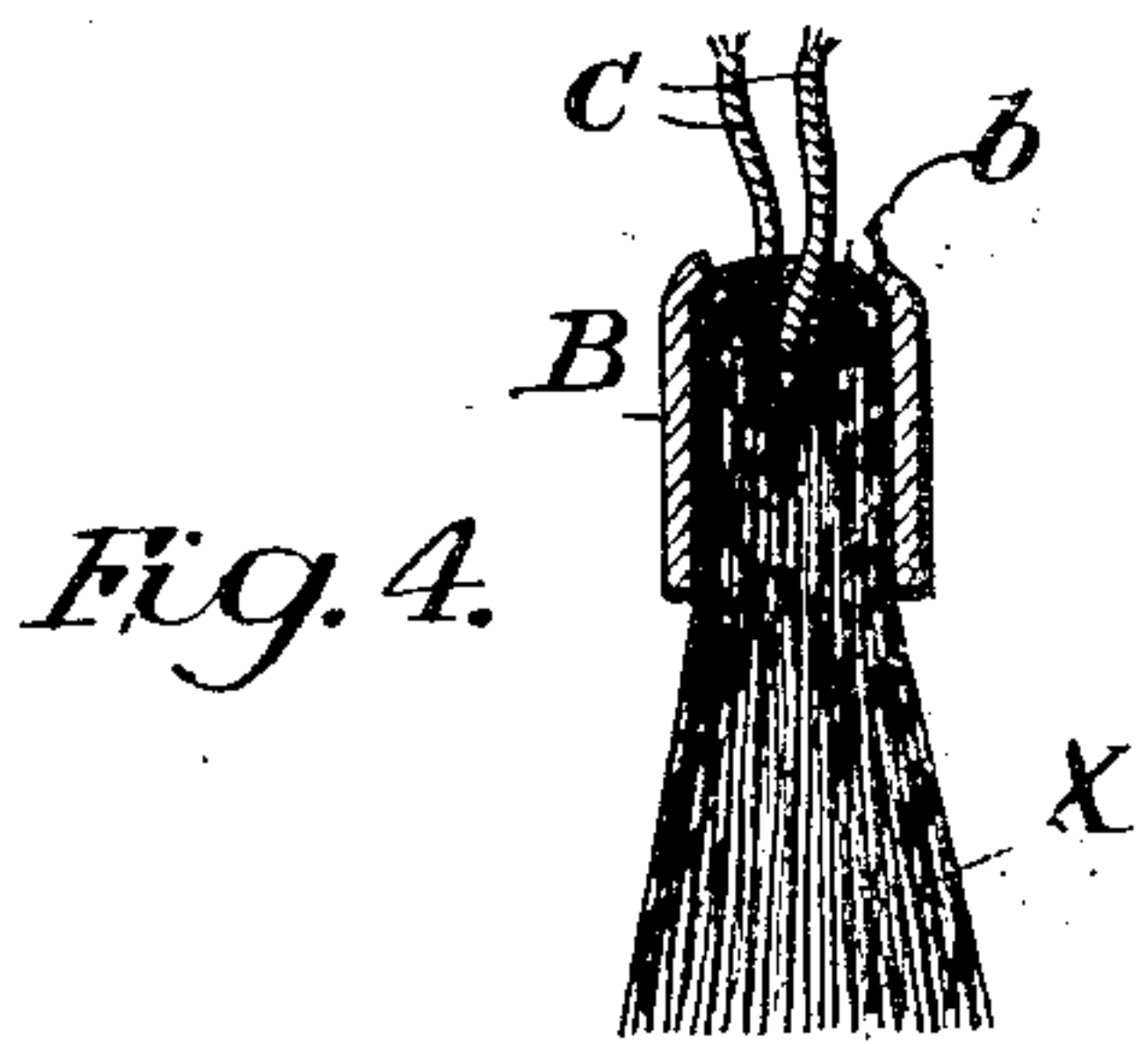
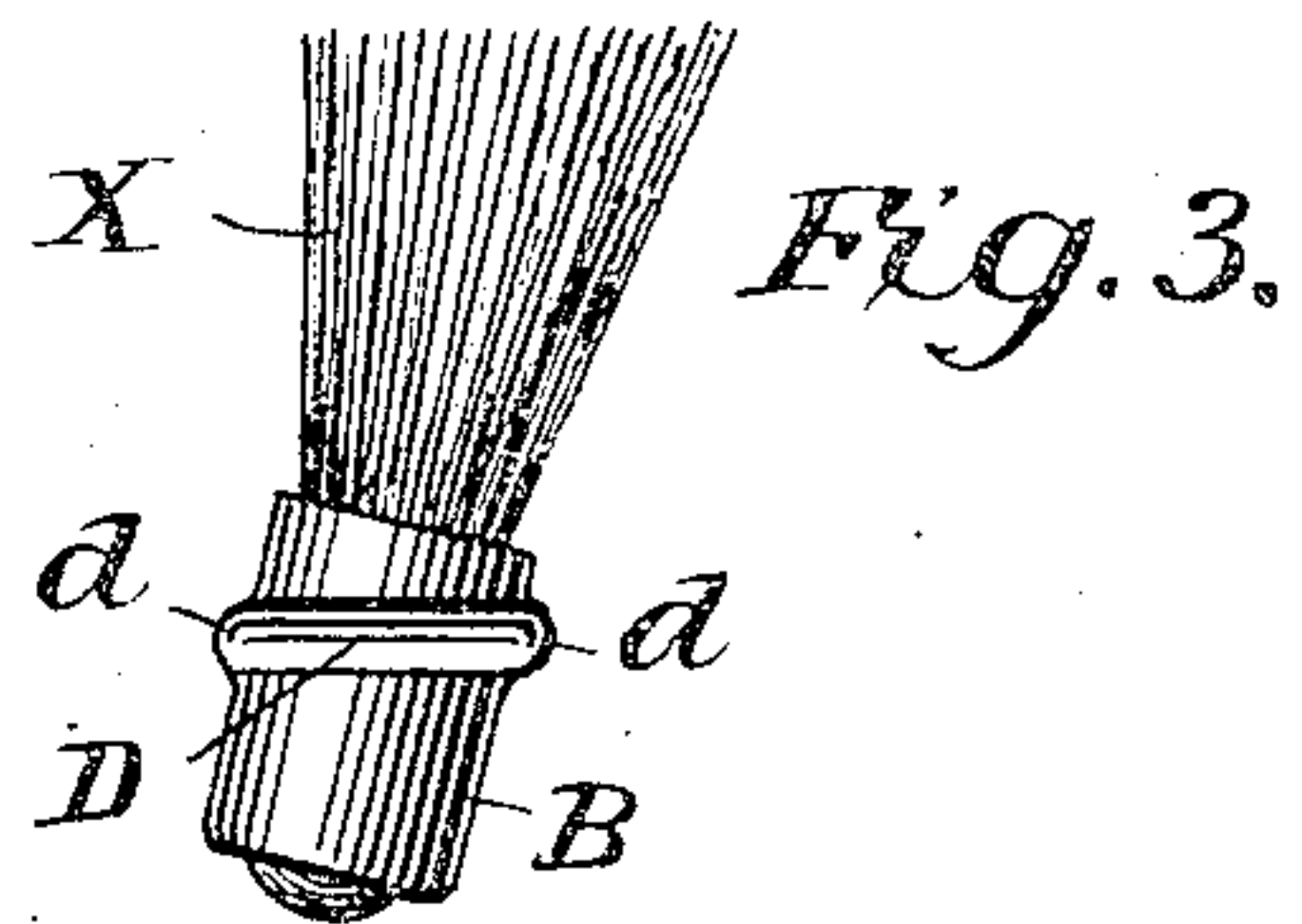
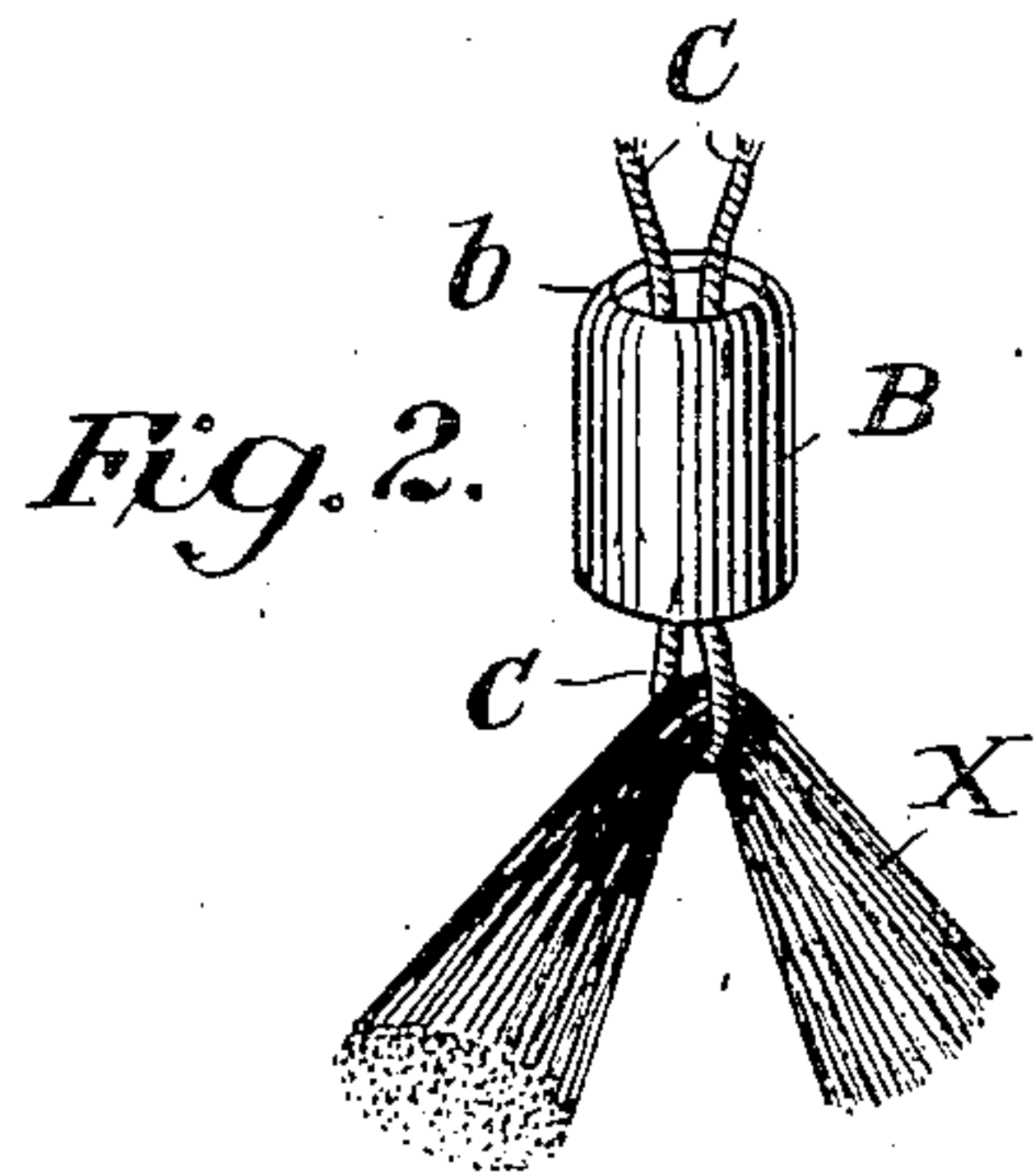
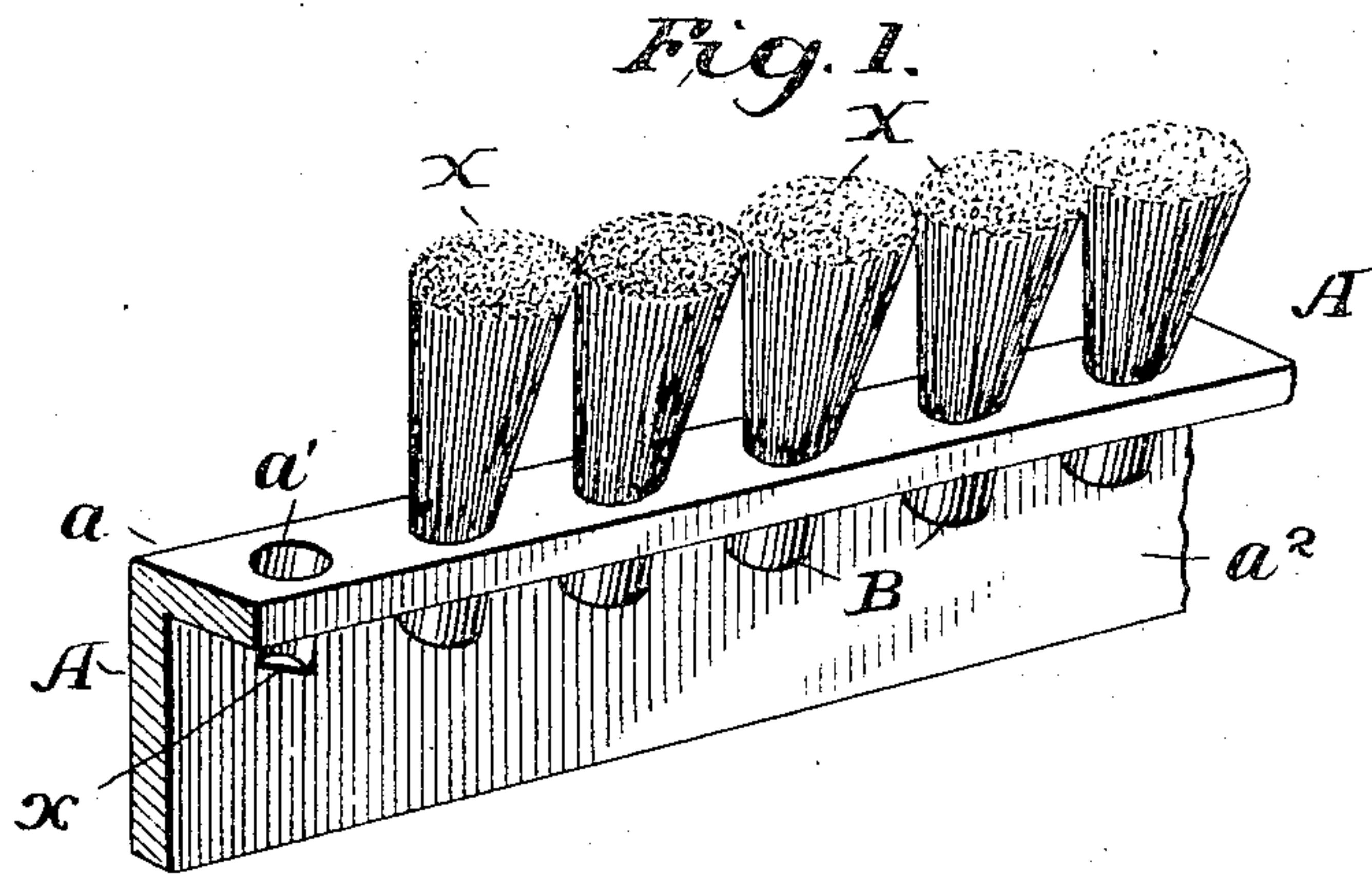
T. BRANTLEY.

BRUSH.

APPLICATION FILED MAY 27, 1909.

969,456.

Patented Sept. 6, 1910.



Witnesses
J. G. Linkel

C. F. Early

Inventor
Thomas Brantley
by his Attorneys *Palmer Wright*

UNITED STATES PATENT OFFICE.

THOMAS BRANTLEY, OF ALBANY, GEORGIA, ASSIGNOR TO SOUTHERN MACHINE WORKS, OF ALBANY, GEORGIA, A CORPORATION OF GEORGIA.

BRUSH.

969,456.

Specification of Letters Patent.

Patented Sept. 6, 1910.

Application filed May 27, 1909. Serial No. 498,629.

To all whom it may concern:

Be it known that I, THOMAS BRANTLEY, a citizen of the United States, residing in Albany, in the county of Dougherty and State of Georgia, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

My present invention relates particularly to brushes of the kind used for cleaning lint cotton from the saws of cotton gins and consists of an improved way of attaching tufts of bristles to the brush bars used in rotary cotton gin brushes.

In the accompanying drawings:—Figure 1 is a perspective view of part of a brush-bar with tufts of bristles mounted therein. Figs. 2, 3, 4, and 5 are detail views of the tufts showing how the ferrules are applied. Fig. 6 is a view partly in elevation and partly in section of part of a brush-bar formed with tuft-receiving holes and recesses and illustrates how the tufts of bristles are secured in place. Fig. 7 shows a cross-section of one of the bars with a tuft of bristles mounted thereon.

The brush-bar A is preferably L-shape in cross-section. The flange *a* of the bar is formed with a row or series of holes *a'* to receive the tufts of bristles X. These holes are arranged diagonally with reference to the direction of rotation of the brush. They extend entirely through the flange *a* and also part way into the body portion *a²* of the bar, thus forming recesses *x* in said body portion which form continuations of the holes *a'* and which have abutments at their lower ends.

The brush-bar, formed with holes as above described, is equipped with a series of tufts of bristles X, and these tufts are constructed and secured in place in an improved way.

As shown in Figs. 2, 3, 4 and 5, each tuft of bristles is drawn into a metallic ferrule B which is open at one end to its full extent, and is formed at its opposite end with a slight flange *b*. The bristles are drawn

into the ferrule in the manner shown by means of a cord C in such manner that the inner end of the bristles project slightly beyond the flange *b* but the tuft is prevented by this flange from passing to any great extent out of the ferrule. The ferrule-equipped tufts thus constructed are arranged in the holes *a'* of the brush-bars in the manner indicated the ferrules extending into the recesses or grooves *x* and resting on the abutments at the lower ends of said grooves.

When a brush-bar has been equipped with the ferruled tufts, recesses or creases D are formed in the ferrules and tufts in the manner shown close to the under or inner side of the flange *a* of the brush-bar. This operation serves to firmly compress the ferruled tufts in the recesses *x* and it forms lugs or projections *d* on opposite sides of the recesses which lie close to the under side of the flange *a* and close to the body portion *a²* of the brush-bar. In this way the tufts are prevented from moving in the brush-bar either by centrifugal force or otherwise.

I claim as my invention:

A brush bar, a flange on one edge of said bar, said bar being provided with a groove having an abutment at one end and extended at the other end through said flange to form a hole therein, a ferrule resting on said abutment, and extending along said groove and into said hole, a tuft of bristles carried by said ferrule, said ferrule being creased below said flange whereby the bristles are firmly clamped within said ferrule and projections are formed on said latter which are in engagement with the lower side of said flange thereby holding all the parts firmly together.

In testimony whereof, I have hereunto subscribed my name.

THOMAS BRANTLEY.

Witnesses:

LLOYD B. WIGHT,
E. B. FRANZONI.