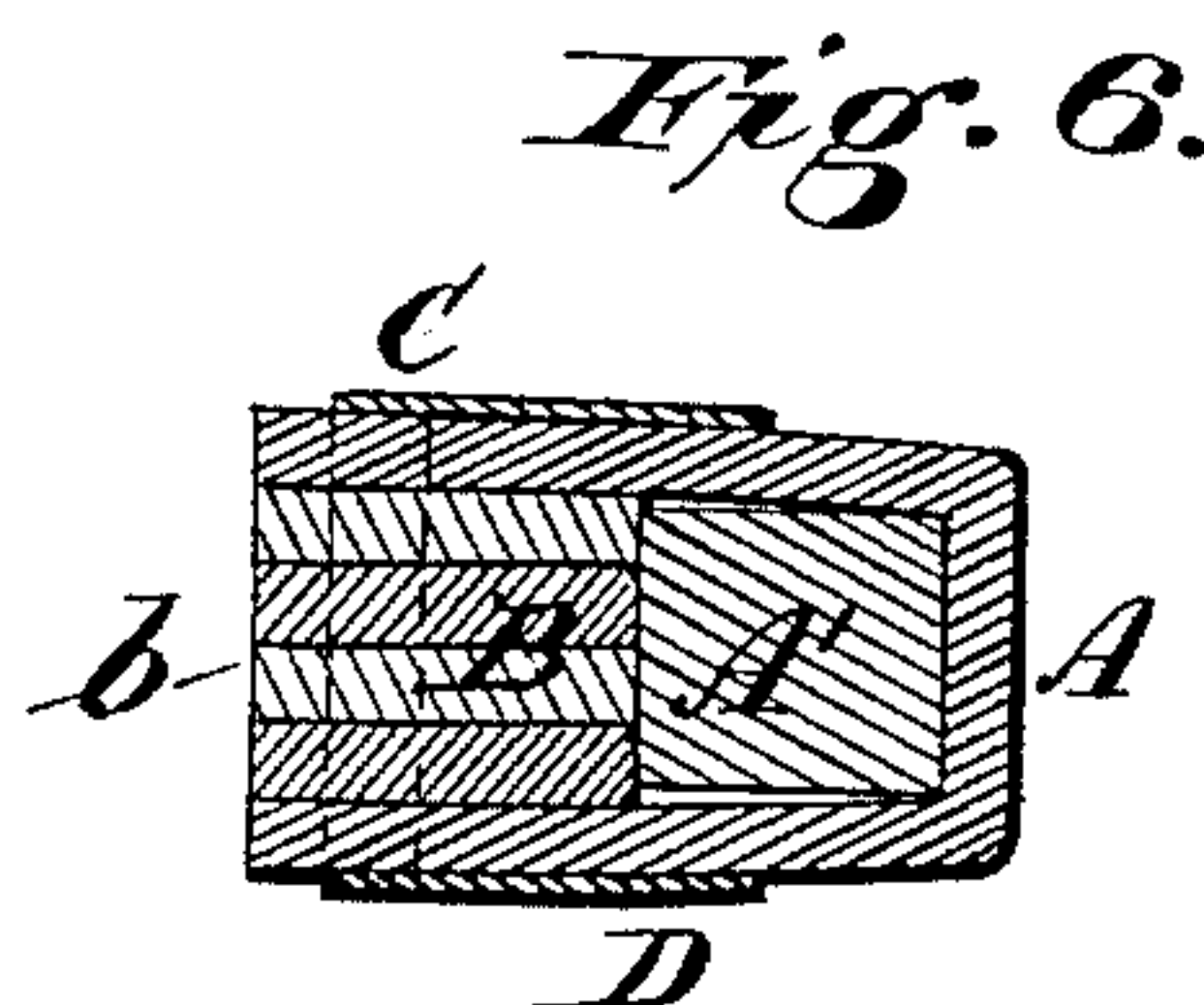
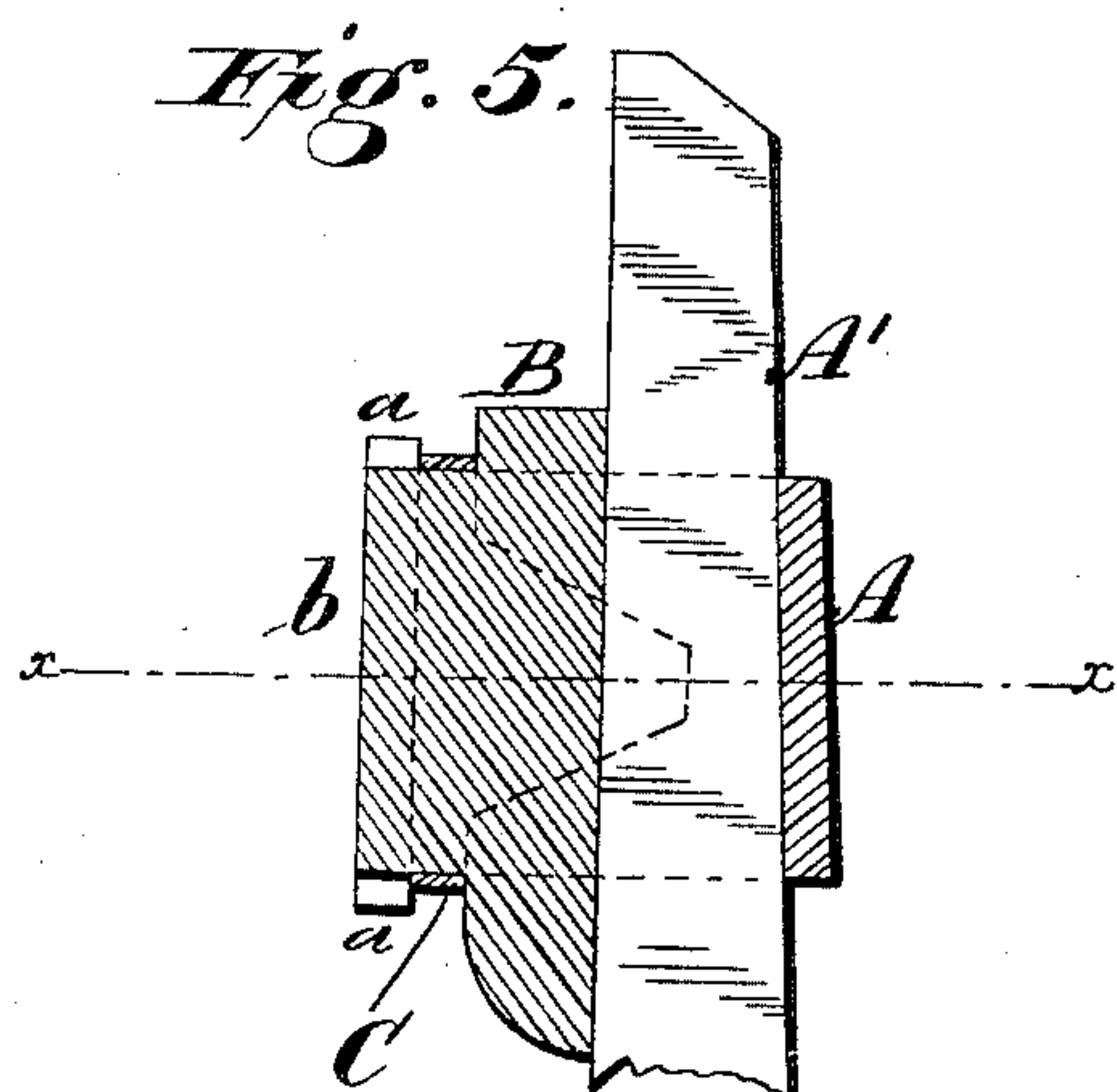
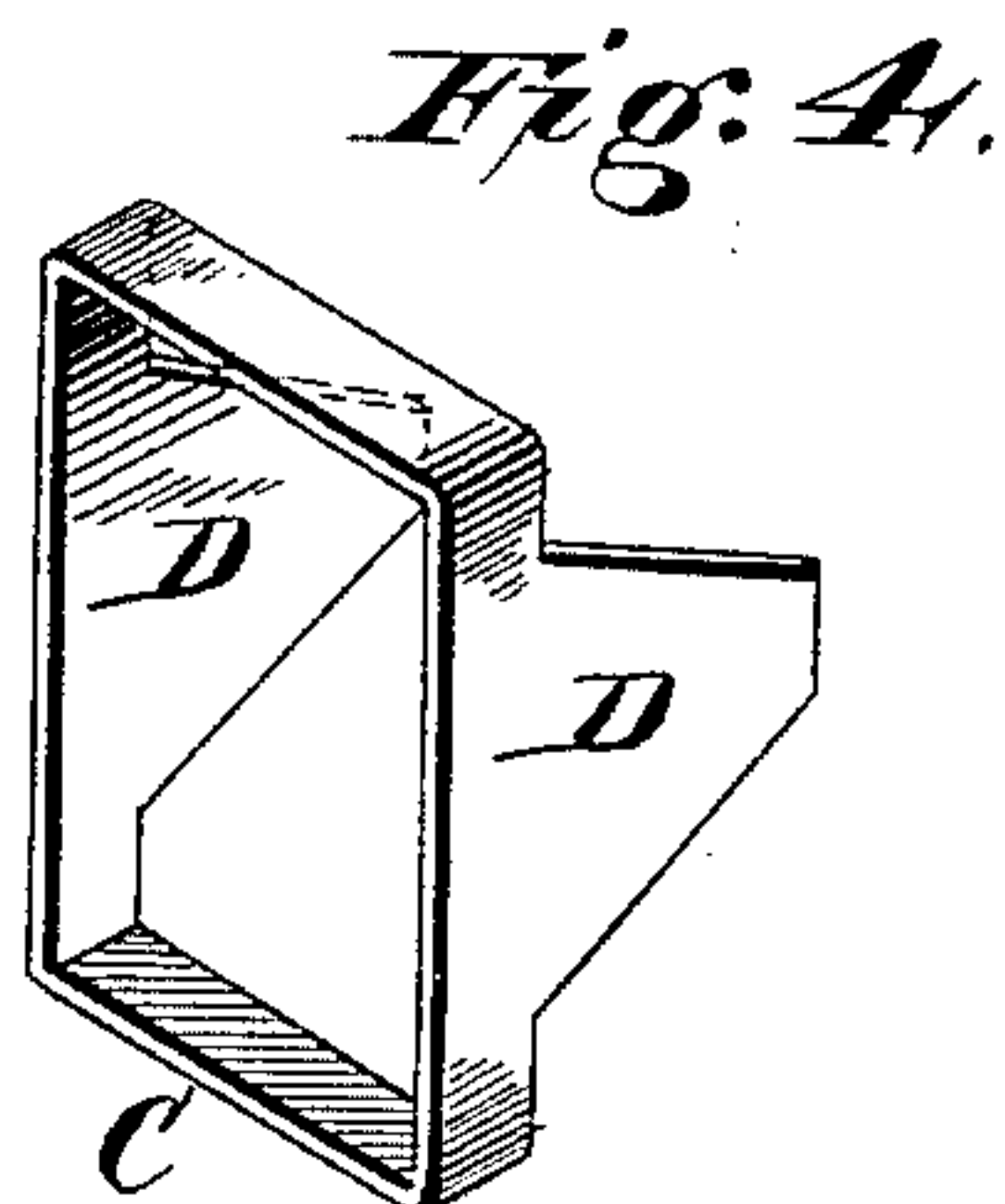
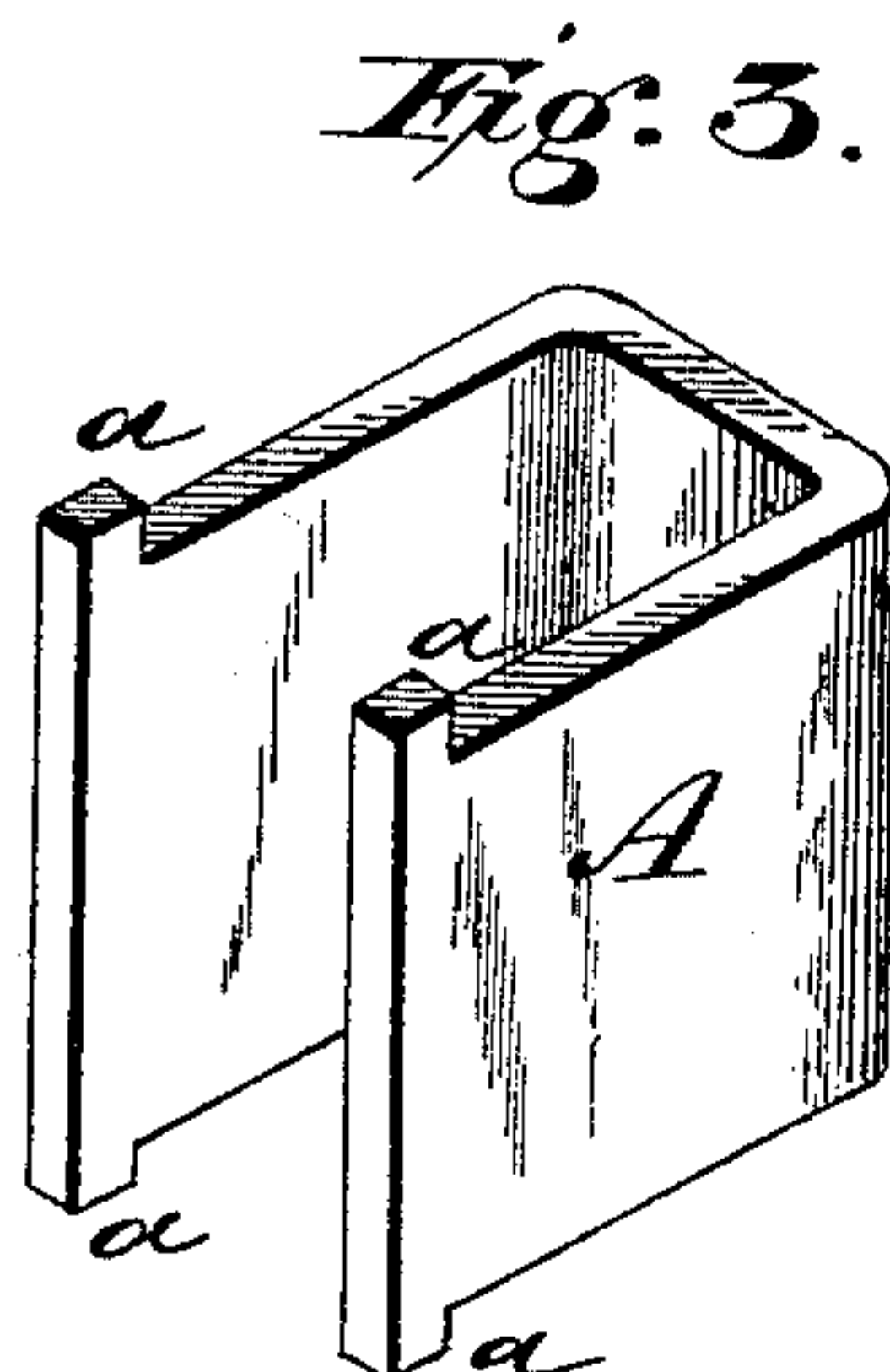
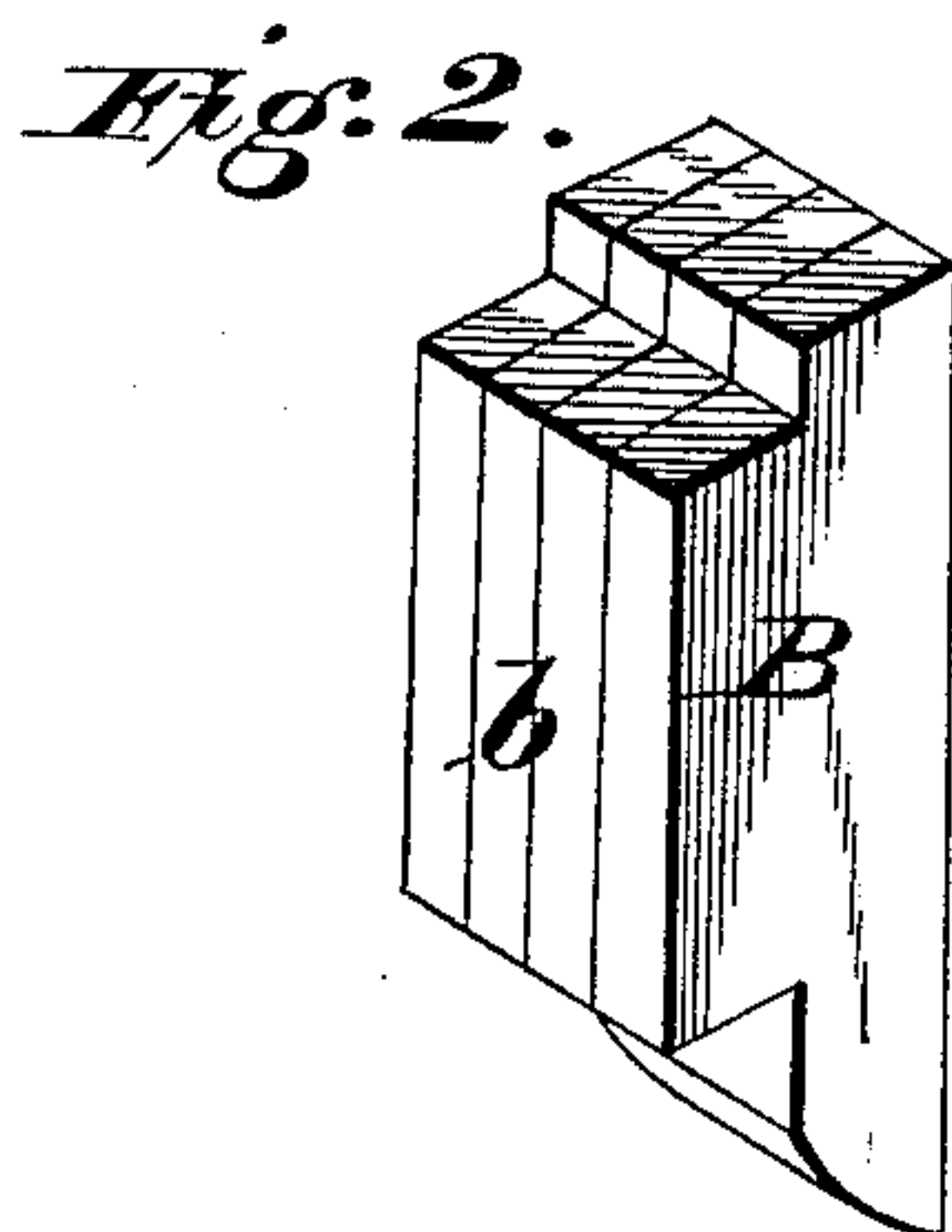
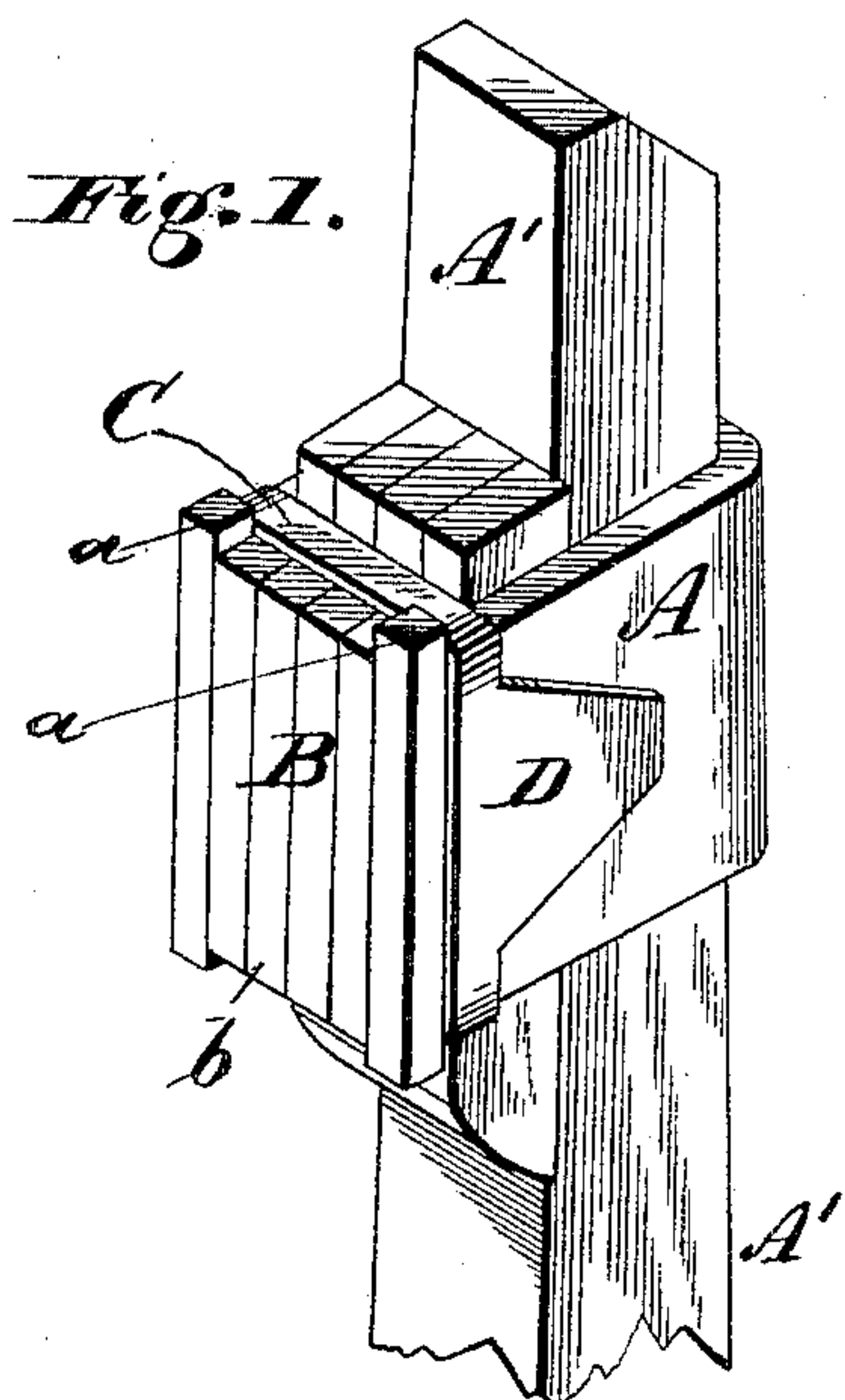


(No Model.)

J. P. THOMPSON.
LOOM PICKER.

No. 450,852.

Patented Apr. 21, 1891.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOHN POLK THOMPSON, OF OLNEYVILLE, RHODE ISLAND.

LOOM-PICKER.

SPECIFICATION forming part of Letters Patent No. 450,852, dated April 21, 1891.

Application filed February 11, 1891. Serial No. 381,113. (No model.)

To all whom it may concern:

Be it known that I, JOHN POLK THOMPSON, a citizen of the United States, and a resident of Olneyville, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Loom-Pickers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of the upper end of a picker-staff provided with my improved picker. Fig. 2 is a similar view of the center piece or "striker" removed from the staff and its appurtenances. Fig. 3 is a perspective view of the loop whereby the striker is fastened removably to the staff. Fig. 4 is a similar view of the metallic collar and spring-jaws used in combination with the loop and striker. Fig. 5 is a longitudinal sectional view through the upper end of the picker-staff, being shown in elevation; and Fig. 6 is a transverse sectional view on line *x x* in Fig. 5.

Like letters of reference denote corresponding parts in all the figures.

This invention relates to loom-pickers, and has for its object to so construct a picker that the center part or striker, which strikes the shuttle and is therefore subject to the greatest wear and tear, can easily be removed when worn out and a new part substituted, thus saving expense.

My improvement further has for its object to construct the picker in a very strong and durable manner, so that it may be used a long time without requiring renewal; and with these objects in view my invention consists in the improved construction and combination of parts of the picker, which will be hereinafter more fully described.

Reference being had to the accompanying drawings, the letter *A'* designates the picker staff or stick, the upper end of which is of the usual taper or wedge shape. The picker is composed of three separate and separable pieces—viz, a leather loop *A*, a center piece or striker *B*, and a metallic band or collar *C*, having parallel rearwardly-extending side

wings *D D*—which said parts I will now proceed to describe more fully in the order named.

The loop *A*, which should be made of leather 55 or rawhide, is provided at its free ends with offsets *a a*, which form stops for the rectangular band or collar *C* when this is in position. The center piece or striker *B* is built up of a suitable number of layers of some 60 tough and resilient material—such as leather or rawhide cut to the shape shown in the drawings—*i. e.*, with a straight back edge, a square top, rounded bottom part, and a projecting front part *b*. When these layers are 65 placed together one upon another, they will form a solid block of leather or rawhide with top and bottom offsets formed by the central projection *b*, which is the part that strikes the shuttle. When this center part *B* is 70 placed within the loop *A*, the projecting middle part *b* will be flush with the open front end of the loop, the sides of which are pressed against the sides of block *B* by the rectangular band or collar *C*, which is retained in 75 place on one side by the top and bottom offsets *a a* on the loop and on the other side by the shoulders or offsets formed in the body of the block or striker *B* by the portions above and below its middle projecting part or face *b*. 80

The loop *A*, striker *B*, and band *C* having been placed together in this manner, the tapering upper end of the staff or stick *A'* is driven into the loop from the under side back of and bearing against the part *B*, thus acting 85 as a key to wedge all the parts firmly together and keep the device securely in its operative position upon the staff. In this position the parallel wings *D D* of the band or collar *C* will press against opposite sides of the loop, 90 thereby not only compressing and compacting the block or striker *B* laterally, but also by pressing the sides of the loop against the sides of that part of the staff which is inserted through it, operating to clamp the loop against 95 the staff, and thus serving to hold it in place.

In operation the projecting front part or face *b*, which is flush or even with the front edges of the loop, strikes the shuttle at each reciprocating movement of the staff, the tendency of the layers of said part *B* to spread 100 apart laterally by the blows delivered to the shuttle being counteracted by the lateral inward pressure of the side wings *D D*. When

made of proper material, the striker-block B will last a long time and when worn out at last it may easily be renewed and a fresh one substituted simply by slipping the loop off of the staff and replacing it after first placing
5 the new striker in position in the loop.

It will be observed that I dispense entirely with the use of rivets, glue, or other means of fastening, the several parts being held firmly
10 together simply by the metallic band or collar C and the wedge-shaped end of the picker-staff.

Having thus described my invention, I claim and desire to secure by Letters Patent of the
15 United States—

1. A loom-picker composed of a plurality of pieces of leather or equivalent resilient material, the outside part or piece forming a loop or bail for the picker-staff to go through
20 at its point of attachment to the picker and the inside part forming the striker, composed of layers of the material presented edgewise to the shuttle, said inside and outside parts being clamped together separably by a metallic
25 band or collar in front of the staff, substantially as and for the purpose shown and set forth.

2. A loom-picker comprising an outside loop having lugs or projections on its forward

ends, an inner part or piece composed of layers of resilient material presented edgewise to the shuttle and having shoulders or offsets formed by the projecting face or middle portion of said inner piece, and a metallic band or collar encircling both parts between and held in place by their respective lugs or offsets, substantially as and for the purpose shown and set forth.

3. The combination, with the picker-staff and striker, of the metallic band or collar encircling the forward part of the striker and having rearwardly-extending wings or jaws adapted to exert lateral pressure against the sides of the striker, substantially as and for the purpose shown and set forth.

4. The combination of the picker-staff, the loop, the inside part or striker, and the clamping-band having rearwardly-extending spring jaws or wings, substantially as and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN POLK THOMPSON.

Witnesses: —

AMBROSE FEELEY,
JOHN P. FOX.