

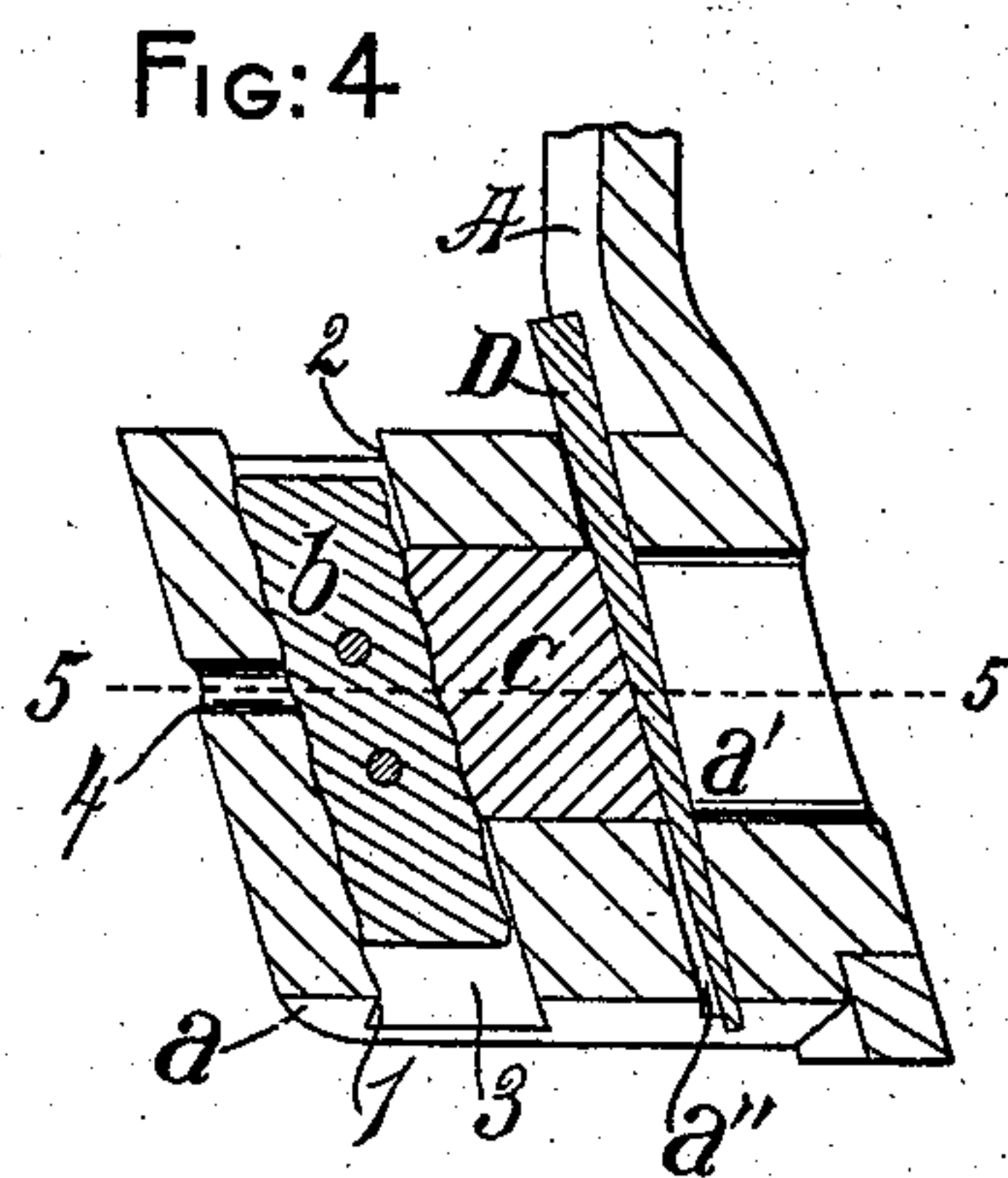
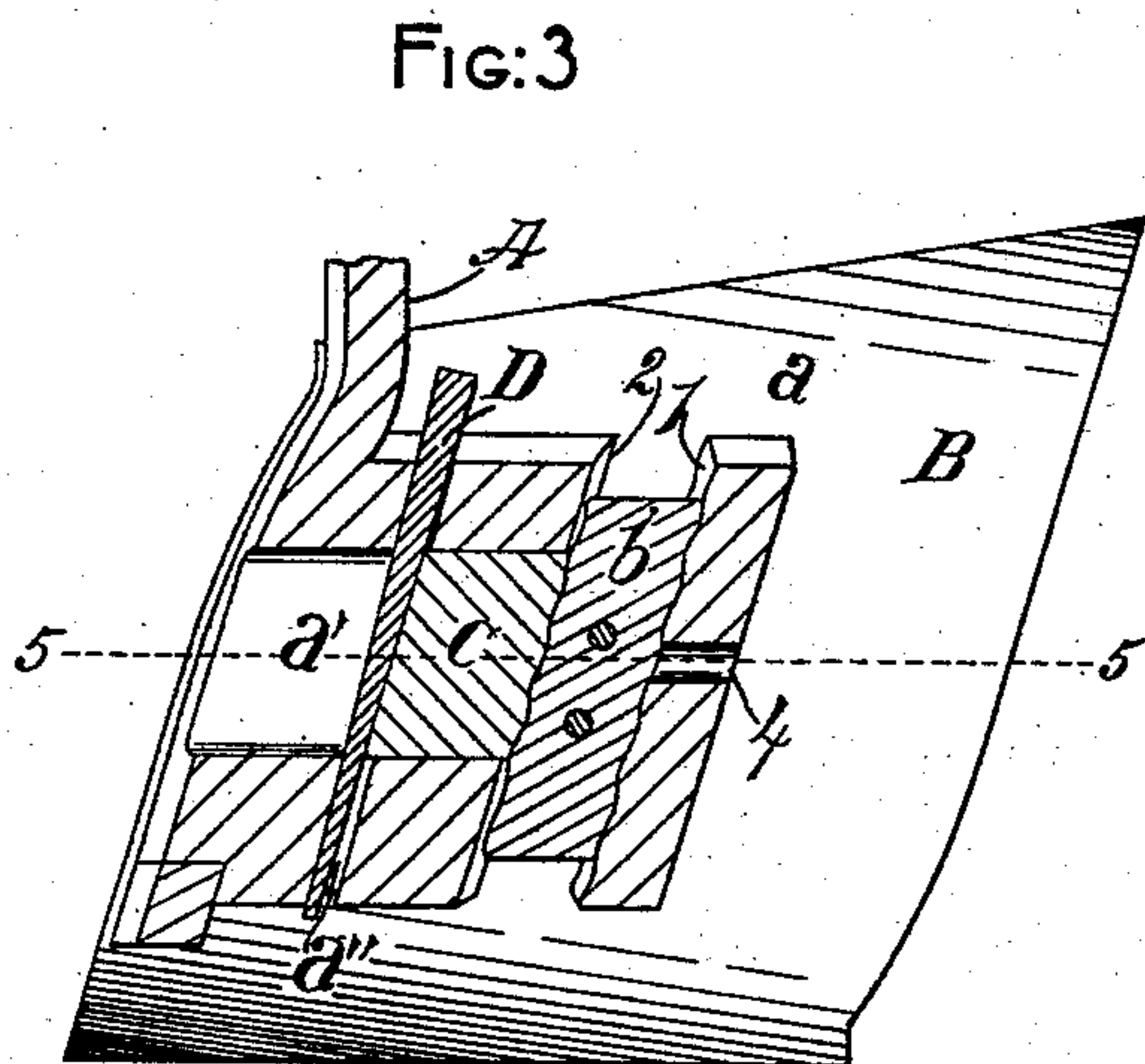
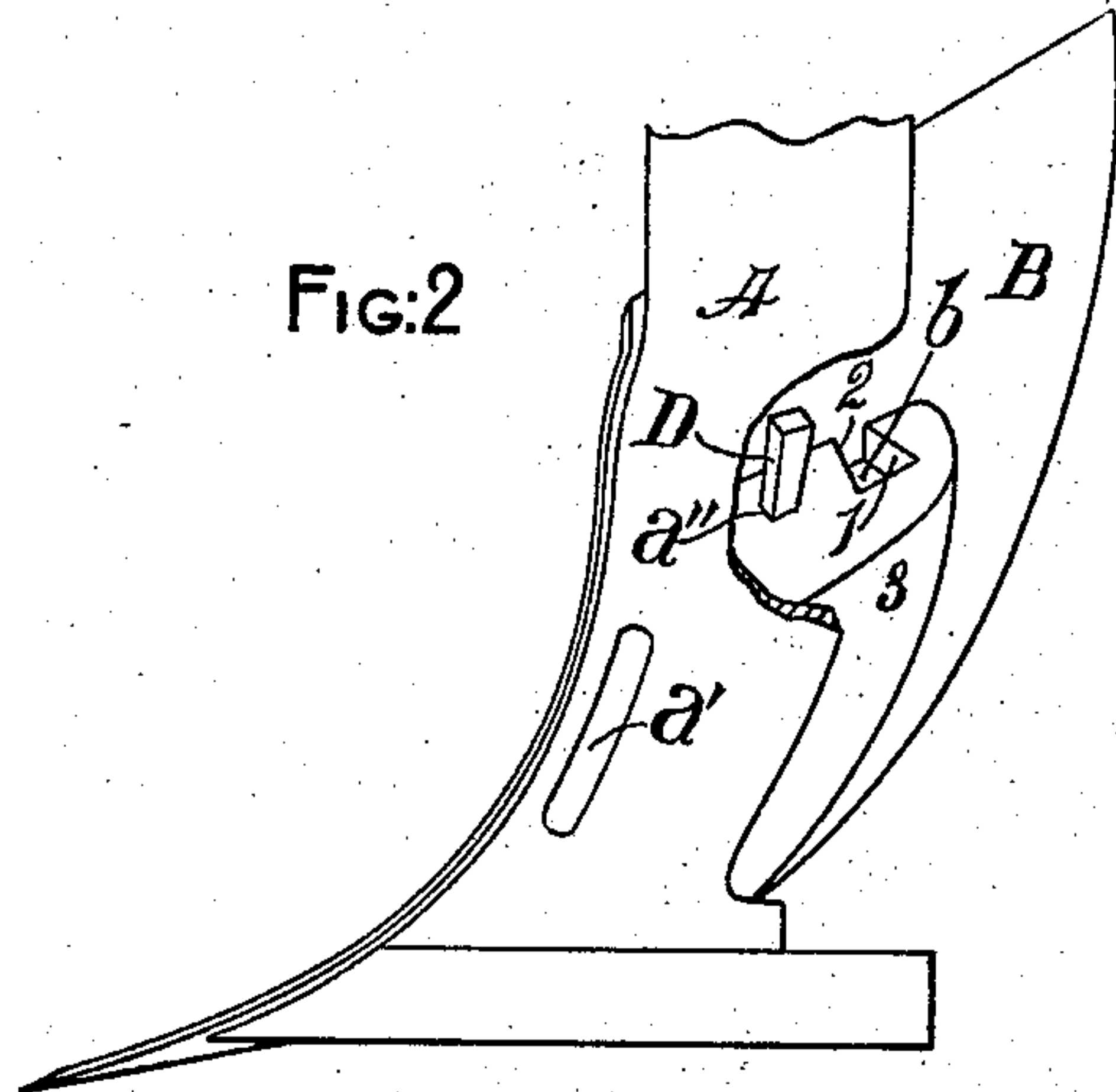
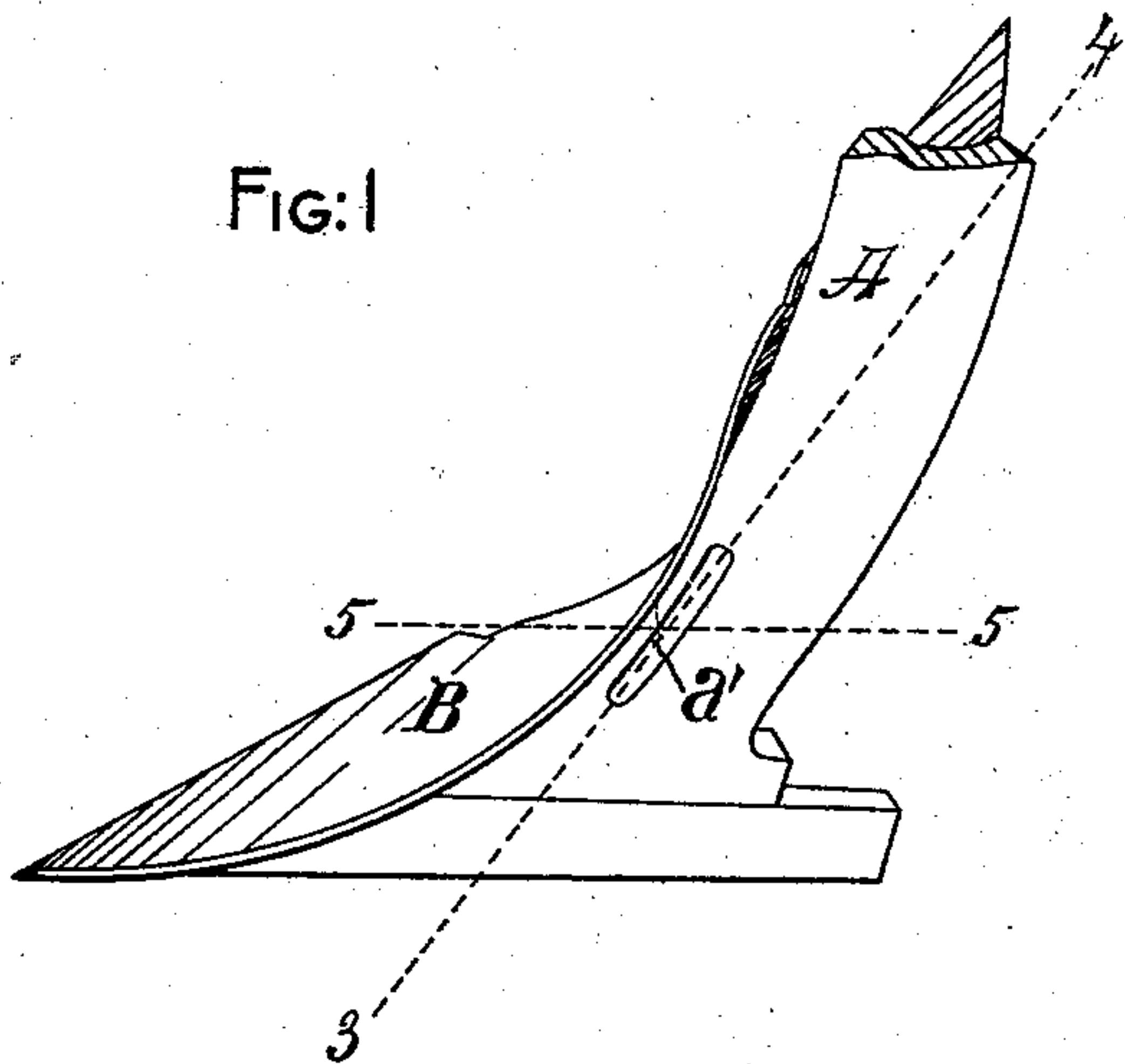
(No Model.)

2 Sheets—Sheet 1.

W. H. BODENHAMER.  
MOLDBOARD FASTENER.

No. 567,289.

Patented Sept. 8, 1896.



WITNESSES:

*F. T. Johnson*  
*Alfred J. Townsend*

INVENTOR:

*William H. Bodenhamer*  
by  
*Hazard Townsend*  
*his attys*

(No Model.)

2 Sheets—Sheet 2.

W. H. BODENHAMER.  
MOLDBOARD FASTENER.

No. 567,289.

Patented Sept. 8, 1896.

FIG:5

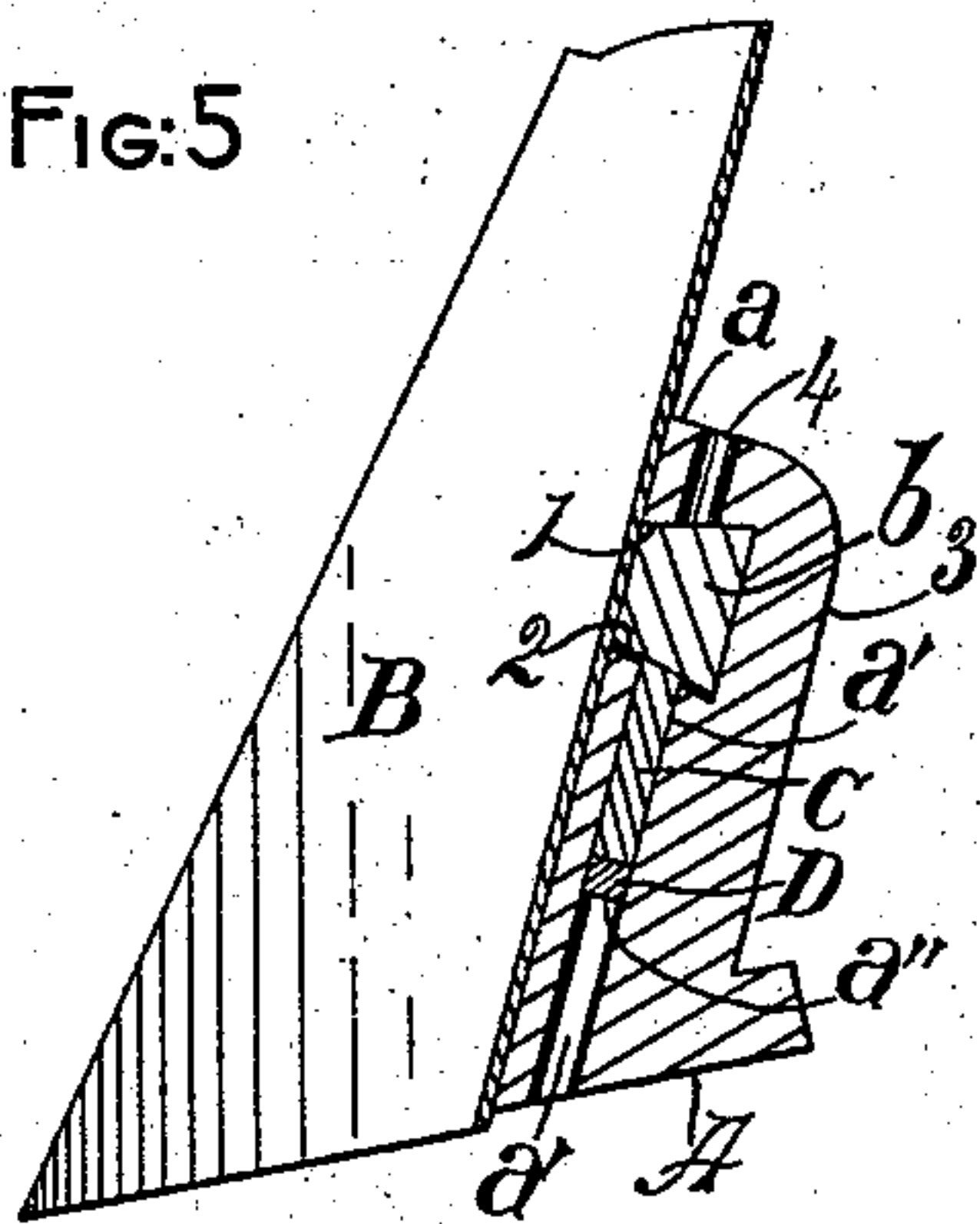


FIG:6

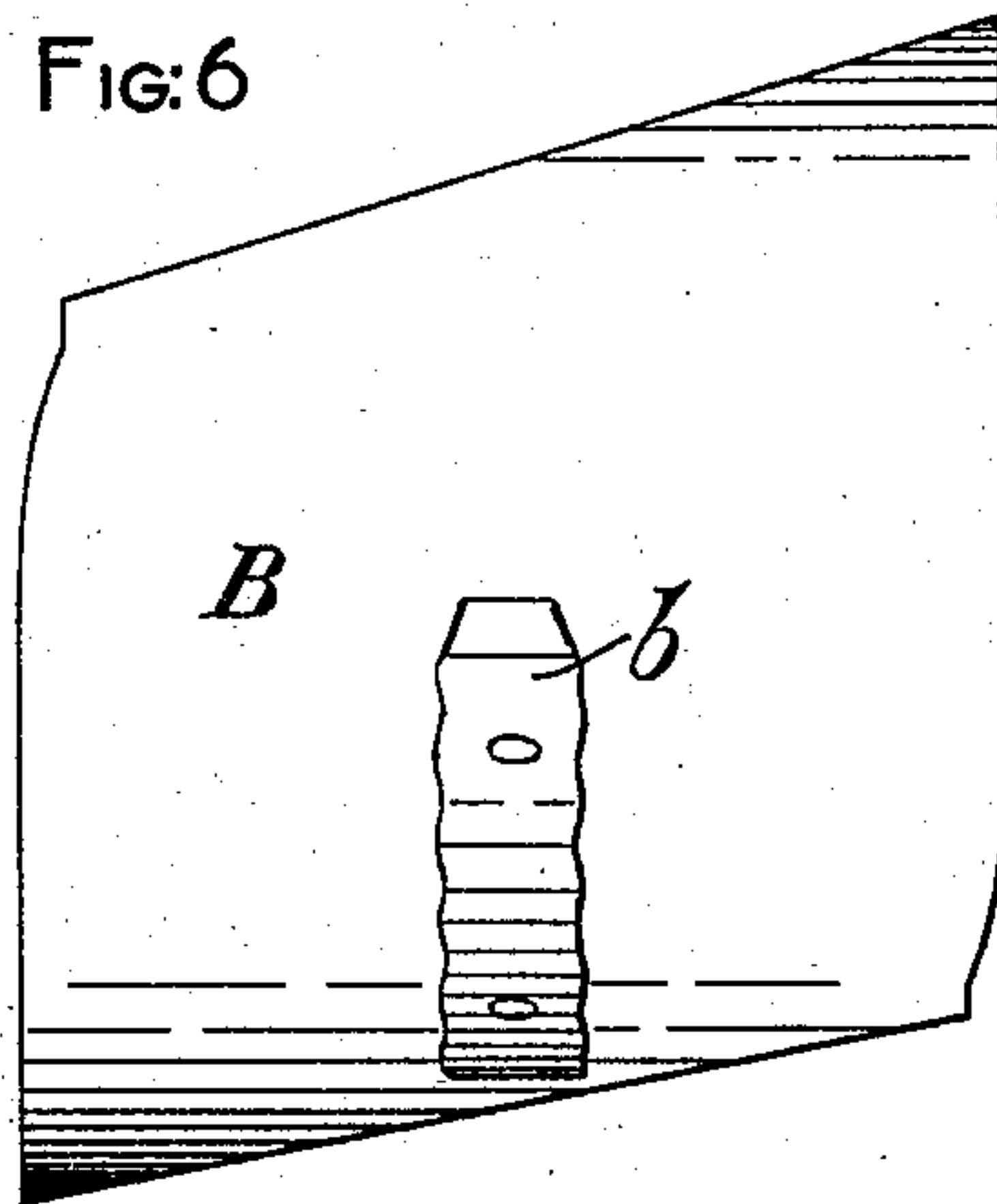


FIG:7

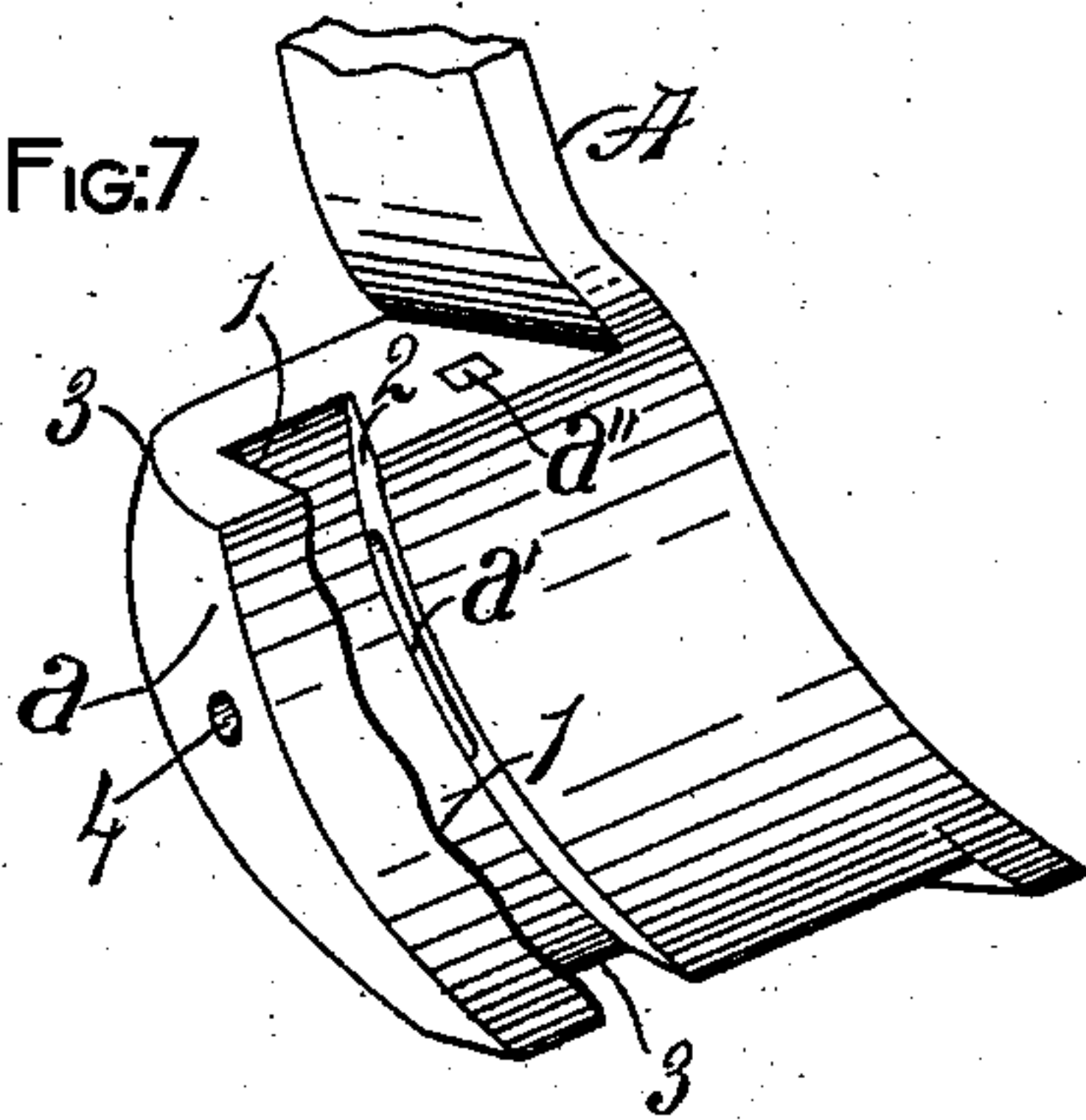


FIG:8

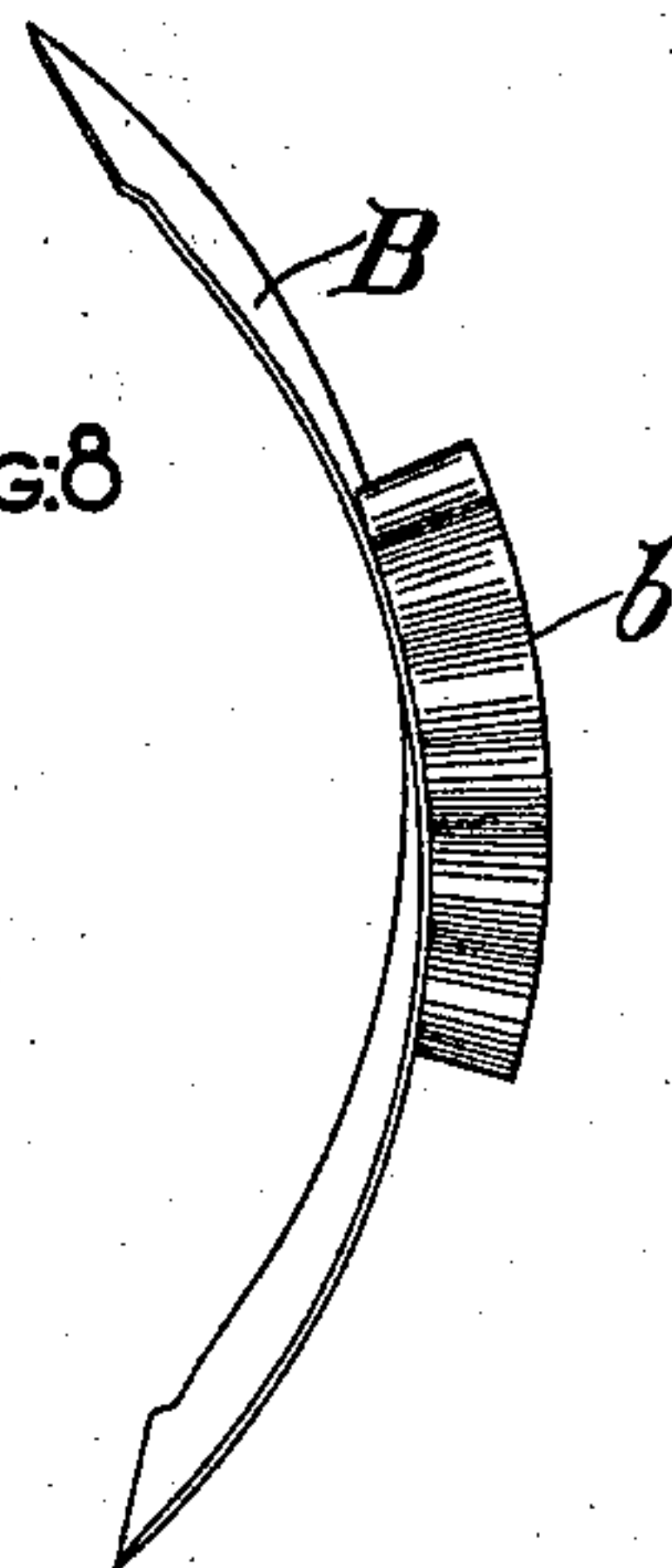
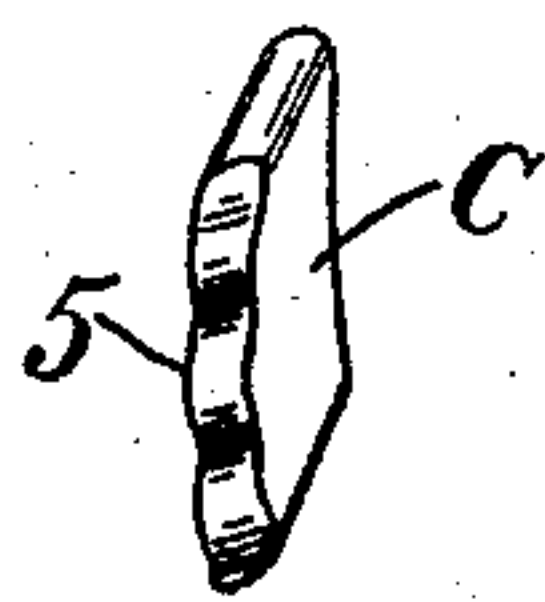


FIG 9



WITNESSES:

*W. T. Johnson.*

*Alfred I. Townsend.*

INVENTOR:

*William H Bodenhamer*

*by Hazard Townsend*  
*his attys.*



# UNITED STATES PATENT OFFICE.

WILLIAM H. BODENHAMER, OF HUENEME, CALIFORNIA.

## MOLDBOARD-FASTENER.

SPECIFICATION forming part of Letters Patent No. 567,289, dated September 8, 1896.

Application filed March 23, 1896. Serial No. 584,461. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. BODENHAMER, a citizen of the United States, residing at Hueneme, in the county of Ventura and State of California, have invented a new and useful Moldboard-Fastener, of which the following is a specification.

My invention is more particularly designed for use with the reversible combined share and moldboard used on the gang-plows ordinarily known as "Stockton plows;" but it is adapted for use on other plows and with moldboards which are not combined with shares and which are not reversible.

My invention will be fully understood by the accompanying drawings, which show the same as applied with the moldboard and share of the Stockton plow.

My invention relates to the combination of a moldboard provided on its back with a projecting rib, a plow-standard provided with a seat for such rib and means for fastening the rib in such seat, by which contrivance I am enabled to fasten the moldboard to the standard and remove it therefrom with great ease and facility.

My invention includes the appliance hereinafter particularly set forth.

One object of my invention is to provide means whereby the moldboard can be quickly and easily adjusted to any desired position. This is especially desirable with the Stockton plow, in which the share is constantly wearing and needs to be slipped down from time to time in order to keep below the landside. This becomes of greater importance where what is known in California as "dry plowing" is done, that is to say, plowing before the rains. In such plowing it is ordinarily necessary to reverse the combined plowshare and moldboard at noon, that is to say, in the morning, before starting to work, a plowshare sharpened on both the upper and lower edges is applied to each plow of the gang, and by noon the lower edge of the share will be so worn and dulled that the share must be removed from the standard and turned to bring the other edge down. Then, before the next day's plowing, the share is removed and sent to the shop to be sharpened and a new set of shares is applied to the standards. This requires a great deal of labor and loss

of time, and by my invention I reduce this labor and loss of time to a minimum.

Another object of my invention is to allow the share to be worn to smaller dimensions than heretofore possible with the shares which were not adjustable on the standard.

It is an object of my invention to provide a thoroughly practical and strong fastening for the moldboard, and this with little expense and with few and simple parts.

The accompanying drawings illustrate my invention.

Figure 1 is a perspective view showing a reversible moldboard and share and a fragment of a plow-standard secured together by means of my newly-invented fastener. Fig. 2 is a side elevation of the standard and share. Fig. 3 is a section indicated by 3 4, Fig. 1, looking from the rear forward toward the moldboard. Fig. 4 is a like section, looking in the opposite direction. Fig. 5 is a cross-section on line 5 5, Fig. 1. Fig. 6 is a perspective view of the rear face of the moldboard. Fig. 7 is a perspective view of the front face of the standard from which the moldboard has been removed. Fig. 8 is an elevation of the moldboard with rib attached, as viewed from the left of Fig. 6. Fig. 9 is a detail of the key.

My invention comprises the combination of a standard A, provided with a rib-retaining lug *a*, a keyway *a'*, opening toward one side of such lug, and a wedgeway *a''*, extending across the keyway; a moldboard B, provided with a retaining-rib *b*, arranged to seat against the retaining-lug; a key C, arranged in the keyway to fit against one side of the retaining-rib to retain it on the standard; and a wedge D in the wedgeway arranged to force the key against the rib. The lug *a* has an overhanging corrugated face 1, and the retaining-rib *b* is corrugated and dovetailed and is arranged fitting against and extending under the overhanging face of the key; and the key C, which is fastened to the standard by the walls of the keyway and by the wedge, is provided with a beveled corrugated face 5, fitting against and overhanging the face of the rib and arranged to hold the rib against the lug. It is thus seen that the dovetailed and corrugated rib is clamped to the standard in a dovetailed groove, the sides of which



are corrugated. In the reversible form of combined moldboard and share shown the retaining-lug is of arc-form, and the moldboard is provided with an arc-form retaining-rib. The overhanging face of the retaining-lug corresponds in width to the width of the beveled face of the retaining-rib, which fits against it so that the rear face of the retaining-rib seats against the bracket 3 of the standard on which the retaining-lug is mounted; and the bracket is also provided with an overhanging wall 2, which, with the retaining-lug, forms a dovetailed groove to seat the dovetailed rib. The bottom of the groove is curved to conform to the rear face of the rib.

In practice the moldboard is applied to the standard by inserting the rib into the groove in the bracket until the cutting-edge or share of the moldboard is at the desired point below the landside. Then the wedge is inserted in the wedgeway, thus to force the key toward the rib, and the wedge is then driven home, thus wedging the key against the rib and the rib against the lug. This operation requires only a few moments of time, and the moldboard is firmly held until the workman shall loosen the wedge to release the rib, and then the moldboard can be taken from the standard and reversed or renewed, as desired. 4 indicates a hole through the retaining-lug to admit a punch to drive the key out from the keyway in case it is desired to remove the key.

The key and the keyway are of arc form to correspond with the curvature of the rib.

While the curved key fits the curved rib and produces a superior fastening, I do not wish my claim to be limited by the form of the key nor to the particular appliances for fastening the rib to the standard.

The rib may be riveted, welded, or cast to the moldboard, depending upon the character of the same.

Now, having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the standard provided with the rib-retaining lug, the keyway opening toward one side of such lug, and the wedgeway across the keyway; the moldboard provided with a retaining-rib arranged to seat against the retaining-lug; the key arranged in the keyway to fit against one side of the retaining-rib; and the wedge in the wedgeway arranged to force the key against the rib.

2. The combination of the standard provided with the arc-form retaining-lug, the keyway opening toward one side of such lug and the wedgeway arranged across the keyway; the moldboard provided with the arc-form retaining-rib arranged to seat against the retaining-lug; the key arranged in the keyway to fit against the retaining-rib; and the wedge in the wedgeway arranged to force the key against the rib.

3. The combination of the standard provided with the lug having the overhanging corrugated face; the moldboard having the corrugated dovetailed retaining-rib fitting against such face; and the key fastened to the standard and provided with the beveled corrugated face fitted against the rib and arranged to hold the rib against the lug.

4. The combination of the moldboard provided with the rib; the standard provided with the lug for holding such rib and also provided with the curved key in such keyway and fitted against one side of the retaining-rib; and the wedge arranged to wedge the key against the retaining-rib.

WILLIAM H. BODENHAMER.

Witnesses:

JAMES R. TOWNSEND,  
ALFRED I. TOWNSEND.