

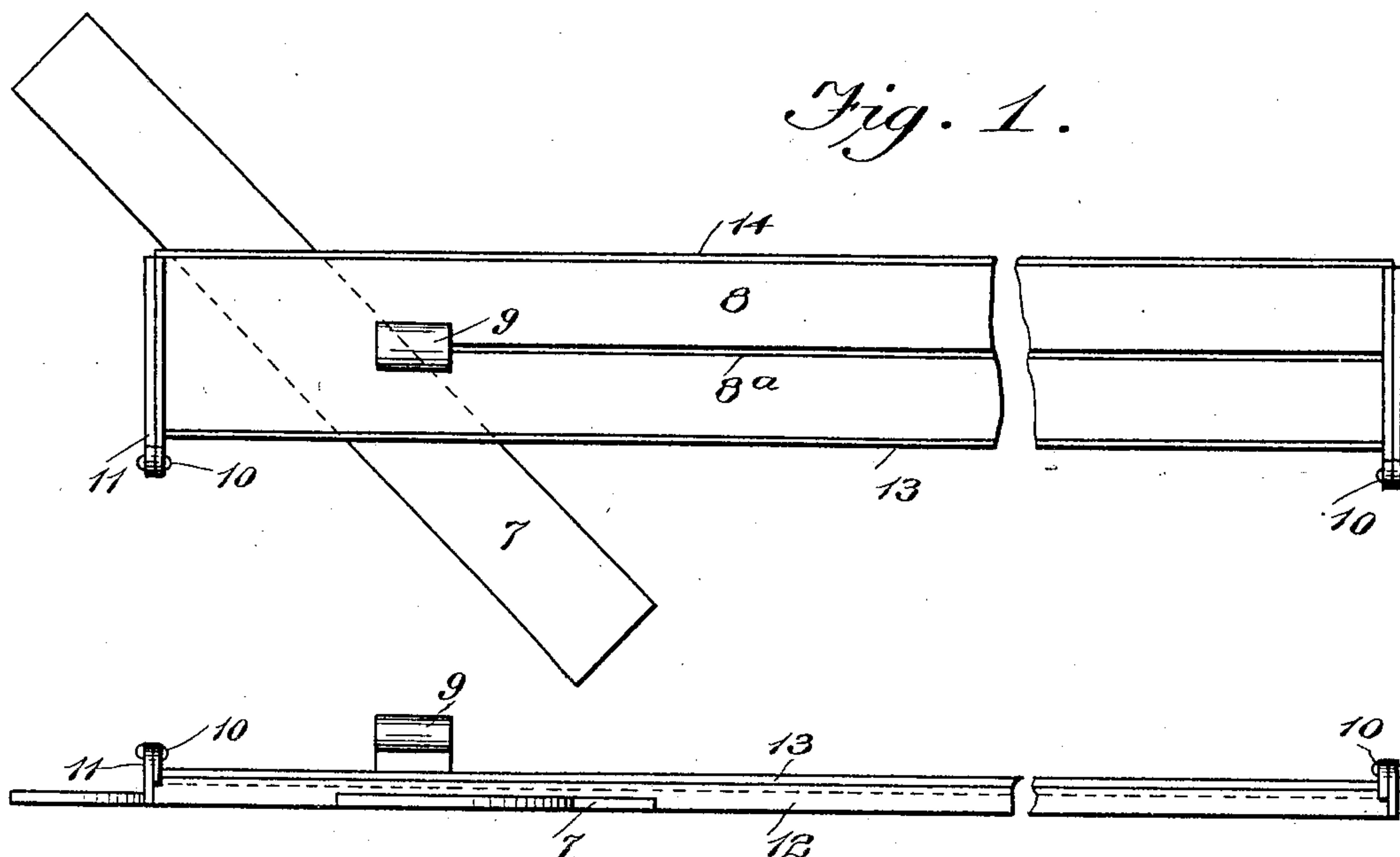
No. 771,738.

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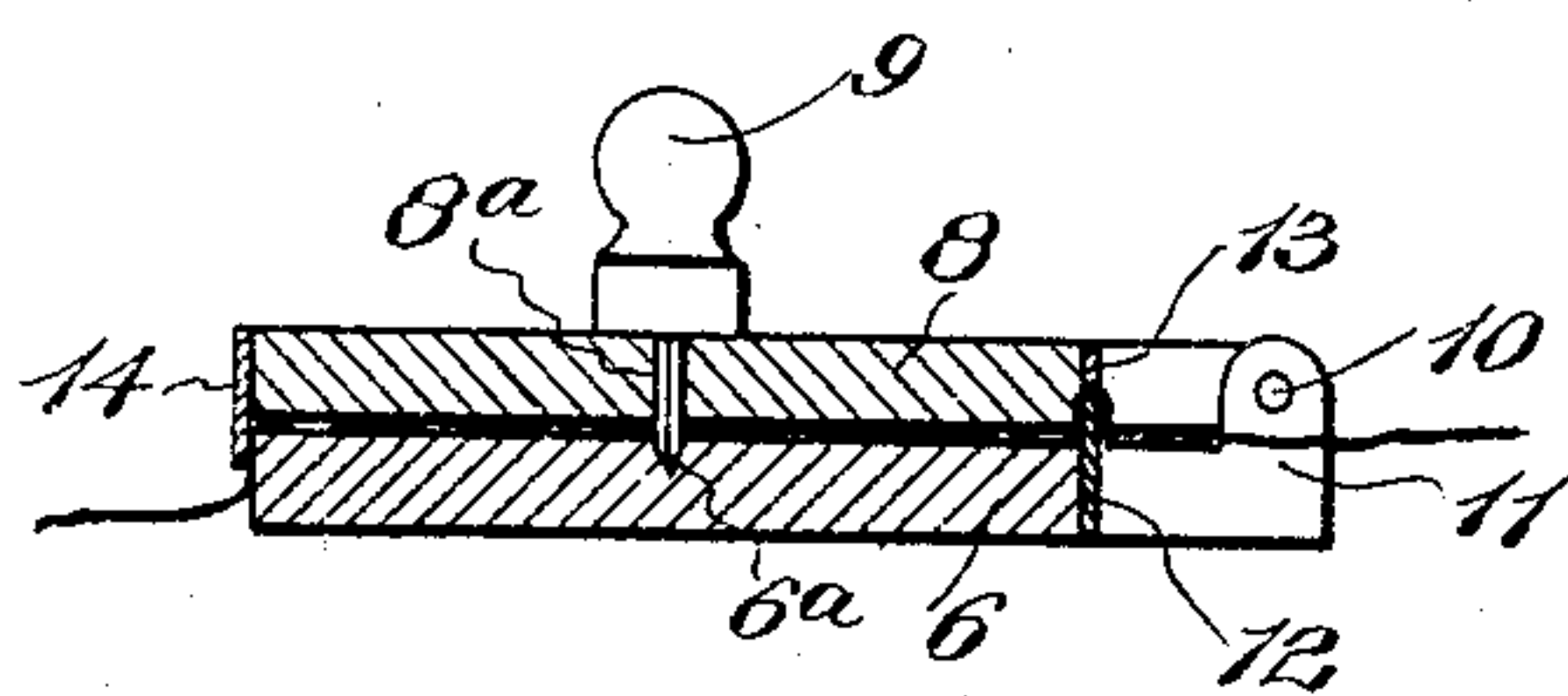
C. J. MITCHELL.  
BIAS CUTTER.

APPLICATION FILED APR. 11, 1904.

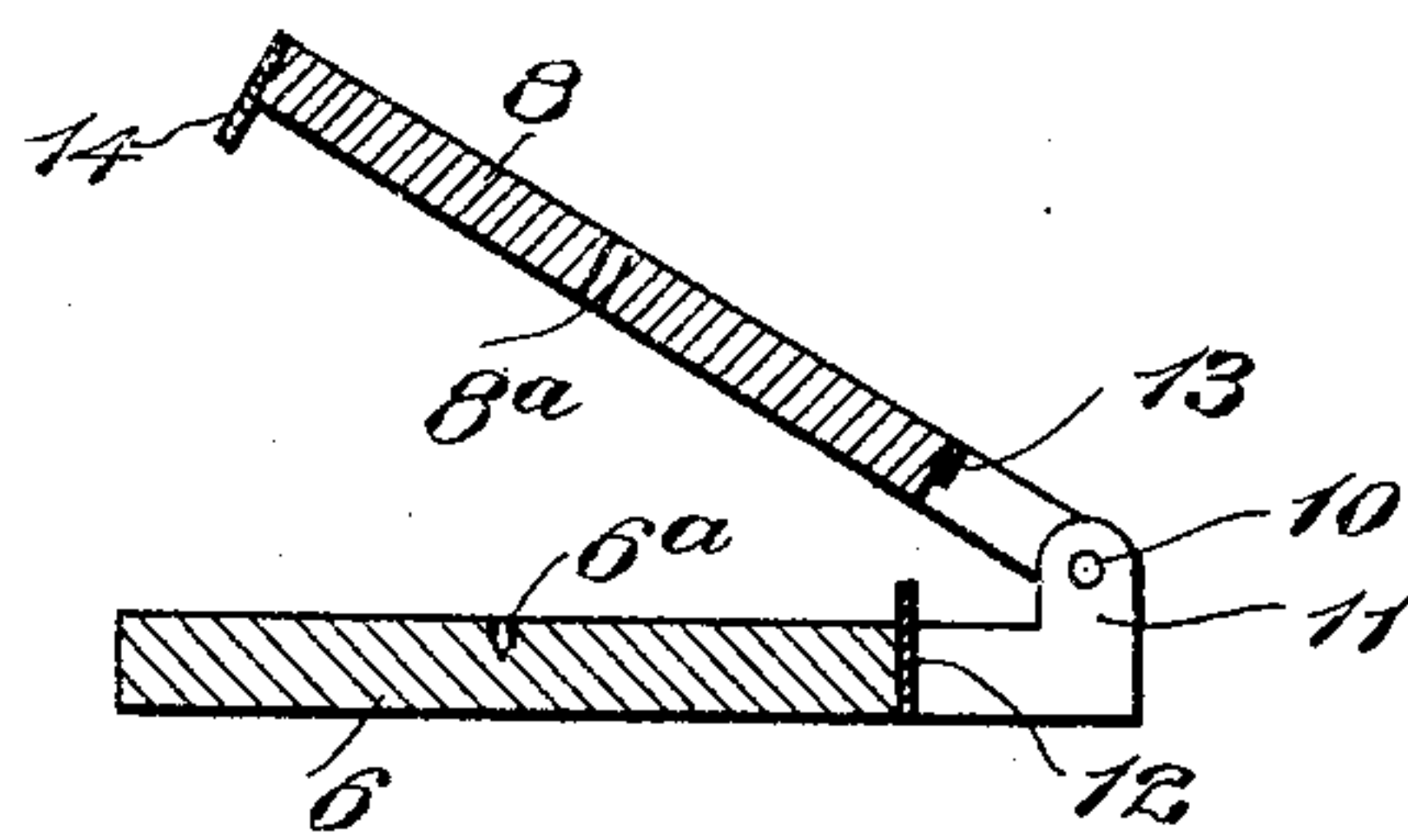
NO MODEL.



*Fig. 4.*



*Fig. 2.*



*Fig. 3.*

Witnesses  
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# UNITED STATES PATENT OFFICE.

CHARLES J. MITCHELL, OF ST. CLAIR, MICHIGAN.

## BIAS-CUTTER.

SPECIFICATION forming part of Letters Patent No. 771,738, dated October 4, 1904.

Application filed April 11, 1904. Serial No. 202,628. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES J. MITCHELL, a citizen of the United States, residing at St. Clair, in the county of St. Clair and State of Michigan, have invented new and useful Improvements in Bias-Cutters, of which the following is a specification.

This invention relates particularly to a device for cutting fabrics on the bias, and is characterized especially by improvement with respect to the means for holding the cloth firmly while the knife is cutting the same.

An objection has existed to cutters of the general class to which this invention belongs due to the fact that it has been difficult to hold the cloth in fixed and proper position on the board during the passage of the knife.

It is the object of my invention to remedy this defect by an improved construction to produce the clamping action.

In the accompanying drawings, Figure 1 is a plan view of the tool. Figs. 2 and 3 are cross-sections with the cutter closed and open, respectively. Fig. 4 is a rear edge view.

Referring specifically to the drawings, 6 indicates the base board or strip, through one end of which is mortised the guide or gage bar 7, which regulates the angle of the bias. The base-board 6 has a longitudinal groove 6" in the upper face thereof for the passage of the point of the knife.

At 8 the hinged leaf is indicated. This has a slot 8" corresponding to the groove 6", and it receives the knife-blade, the handle of which is indicated at 9. The leaf 8 is hinged at each end of the base-board 6 by means of hinges 10, the lower member of which has an upwardly-projecting L, as at 11, which brings the hinged pivot in such position that the face of the leaf comes in flat and close contact with the base-board, and, furthermore, when the leaf is lifted it opens away from the base-board, the hinges being extended outwardly or backwardly to produce that effect. The hinges are conveniently secured to the ends of the base-board and the leaf.

Along the rear edge of the base-board 6—that is, the edge nearest the hinge—is fixed a metallic strip, (indicated at 12,) and the up-

per edge of this strip projects somewhat above the top of the base-board. The rear edge of the leaf 8 has a similar strip 13, which, however, does not extend the full thickness of the leaf, but is properly arranged and constructed to fit with its lower edge against the upper edge of the strip 12 when the parts are closed, as shown in Fig. 2. The front or opposite edge of the leaf 8 has also a strip 14, of metal, which depends somewhat below the under side or face of the leaf and is arranged to contact with the front edge of the base-board 6.

In the use of the device the leaf is opened on the hinge and the cloth or other fabric passed between it and the base-board, with the edge of the cloth or fabric against the gage-bar 7. When in proper position, the leaf 8 is lowered. This causes the cloth to be clamped between the leaf and the base and also to be gripped between the strips 12 and 13 and between the strip 14 and the front edge of the base-board. The effect of this is to strain the cloth tightly over the base-board and to grip the same firmly between the metallic strips heretofore referred to. The knife is then drawn along through the slot and severs the cloth in an obvious manner. The cutter is then opened for the next operation, and inasmuch as the hinged pivot is at a distance from the rear edge of the base-board and leaf—that is, inasmuch as the hinges are extended hinges—the leaf lifts clear of the base-board and the cloth thereon and allows the latter to be quickly and easily drawn along for the next operation.

It will be seen that in addition to the plain clamping-surface of the base-board and leaf the cutter has means to clamp the cloth on both sides of the cutting-knife, whereby the danger of the cloth slipping, incident to cutters having a plain surface only, is avoided.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a bias-cutter, in combination, a base, a leaf hinged at its ends thereto, and having a slot extending from one end to the other, projecting strips at opposite side edges of the base and leaf on each side of the slot, and ar-



ranged to bind the material between the base and leaf, and a knife movable along in the slot.

2. In a device for clamping and cutting  
5 sheets, in combination, a base having a gage-bar secured at an angle thereto, a leaf hinged at opposite ends to the base and having a knife-slot along the same, and projecting strips along opposite edges of the base and leaf, con-

structed to grip the material, substantially as is described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES J. MITCHELL.

Witnesses:

W. S. MITCHELL,

T. J. MILLIKIN.