

(No Model.)

C. McNEIL.
TRIMMING KNIFE FOR SEWING MACHINES.

No. 547,673.

Patented Oct. 8, 1895.

Fig. 1.

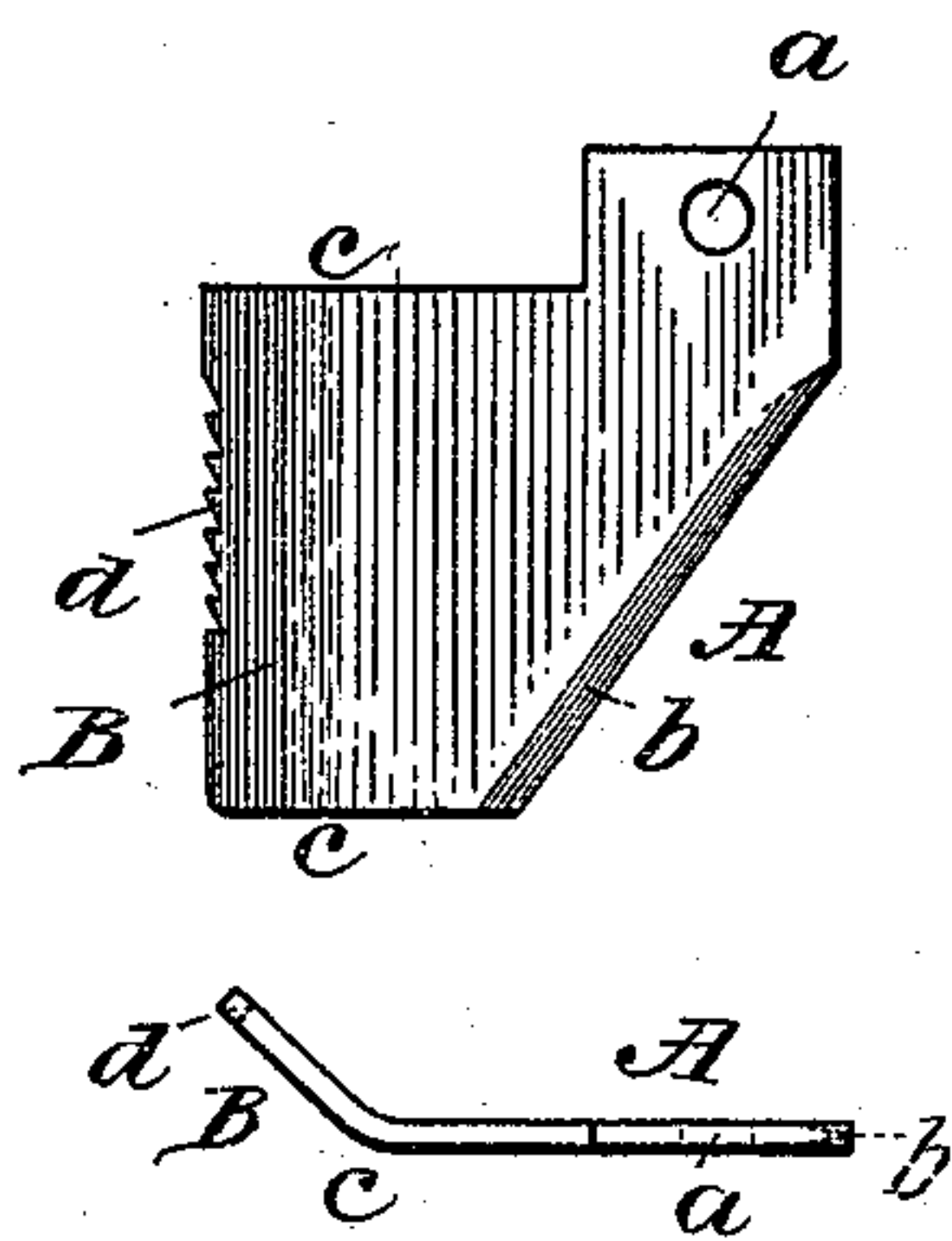


Fig. 2.

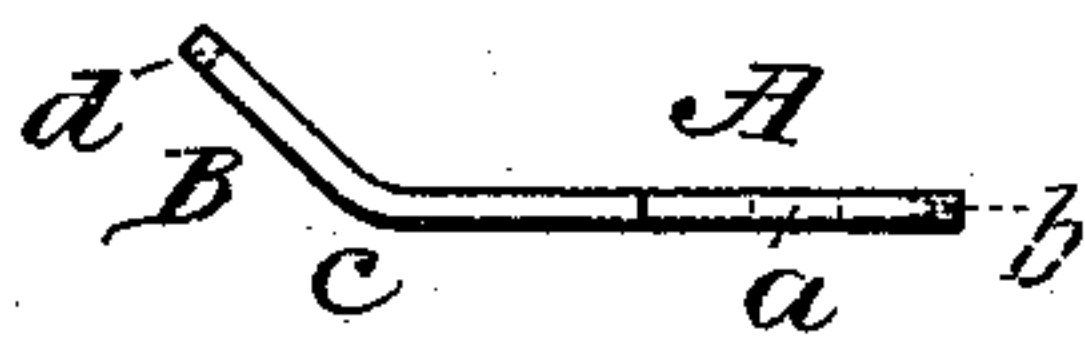
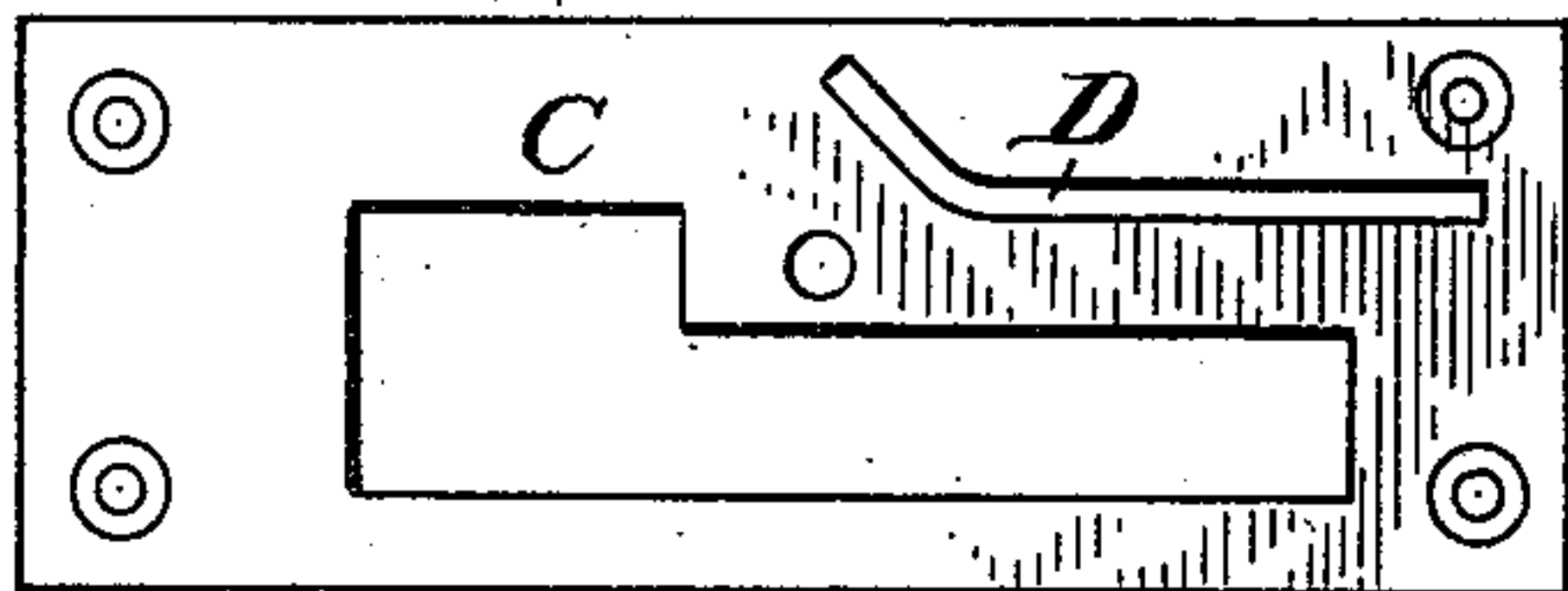


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

CHESTER McNEIL, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE UNION SPECIAL SEWING MACHINE COMPANY, OF SAME PLACE.

TRIMMING-KNIFE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 547,673, dated October 8, 1895.

Application filed July 11, 1893. Serial No. 480,164. (No model.)

To all whom it may concern:

Be it known that I, CHESTER McNEIL, a citizen of the United States, residing at Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Trimming-Knives for Sewing-Machines, of which the following is a description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in trimming-knives for sewing-machines and the like. It has been heretofore proposed to provide guides separate from and in rear of the trimmers on sewing-machines to divert the trimmed-off portion of the material; but these guides have been of peculiar and more or less complicated construction, and the object of the present invention is to provide in one construction a trimmer-knife having a guide or wing for deflecting the trimmed-off strip; and it consists in the matters shown, described, and referred to in the appended claims.

In the accompanying drawings, which illustrate my invention, Figure 1 is a side elevation of my improved trimmer-knife. Fig. 2 is a top plan view of the same, and Fig. 3 is a top plan view of a sewing-machine throat-plate for use with my invention when applied to sewing-machines.

I have shown in the drawings my invention as used in connection with a sewing-machine, in which either a single piece of fabric is trimmed and sewed, or the edges of two superposed pieces of fabric are trimmed and sewed, the trimmed-off strip being deflected to one side. It will be understood, however, that my trimmer may be arranged to act after the sewing has been accomplished and with regular or irregular stitch-forming mechanism and that overlapped pieces of fabric may be trimmed and sewed thereon.

In the drawings, A represents the trimmer-knife, having the opening α whereby it is attached to a suitable support. It has preferably a beveled cutting-edge b . Commencing at the point c , the rear portion is bent out of the vertical plane of the body of the knife so as to form a wing B, which will act to divert the trimmed-off strip and guide it to one side.

On the rear edge the knife has serrations d , which in the stroke of the knife will engage the loose fibers of the fabric and thus keep the slot in the throat-plate clear.

C represents the throat-plate, having the usual slots for the passage of the feed-dog and needles and the slot D corresponding to the shape of the trimmer.

It will be understood that said trimmer-knife has imparted to it a reciprocatory motion in the usual way; but this is not herein shown.

While I have herein shown the wing or guide B as made integral with the knife-blade, it will be understood that it may be formed separately and then attached to it, the gist of my invention consisting in providing the knife itself with a wing for deflecting the strip instead of having a guide of peculiar construction and independently supported on the machine. Furthermore, it will be understood that the cutting-edge of the knife may be serrated in the well-known manner, if desired, and that the trimming device may be operated in any of the ways well known in the art, and that a trimming device such as herein described may be applied in other connections than with a sewing-machine. For example, it may be used with cloth, paper, or leather cutting machines.

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

1. In combination with a support for the article to be cut, a trimmer having a cutting edge and having its opposite edge bent to form a wing or guide to deflect the trimmed off strip and adapted to co-operate with an edge of said support; substantially as described.

2. In a sewing machine, the combination with the trimmer having a cutting edge and having its opposite edge bent to form a wing or guide to deflect the trimmed off strip, of a cloth plate or support upon which the fabric rests and having an opening for the passage of the trimmer; substantially as described.

3. In a sewing machine, the combination with a trimmer having a cutting edge and a laterally extending wing or guide in rear thereof, of a throat plate having a slot with a

lateral angular extension for the reception of said trimmer; substantially as described.

4. As a new article of manufacture, a trimming knife formed with a front cutting edge, and having its opposite rear edge bent laterally at an angle to form a wing or guide; substantially as described.

5. In a sewing machine the combination with a trimmer having a cutting edge and having its rear portion bent laterally at an angle to the body of the knife, the extension of the body of the knife at the bend having a series of serrations, of a throat plate having a slot formed for the reception of the trimmer; substantially as described.

6. In combination with a support for the article to be cut, a trimming knife having a cutting edge, and having its opposite edge bent laterally at an angle to form a wing or guide to deflect the trimmed off strip, and a co-operating element cutting in connection with said cutting edge; substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CHESTER MCNEIL.

Witnesses:

MINNIE MCNEIL,
WM. H. REED.