

(No Model.)

T. E. WOOD.

PHOTOGRAPHIC PAPER HOLDER AND CUTTER.

No. 477,728.

Patented June 28, 1892.

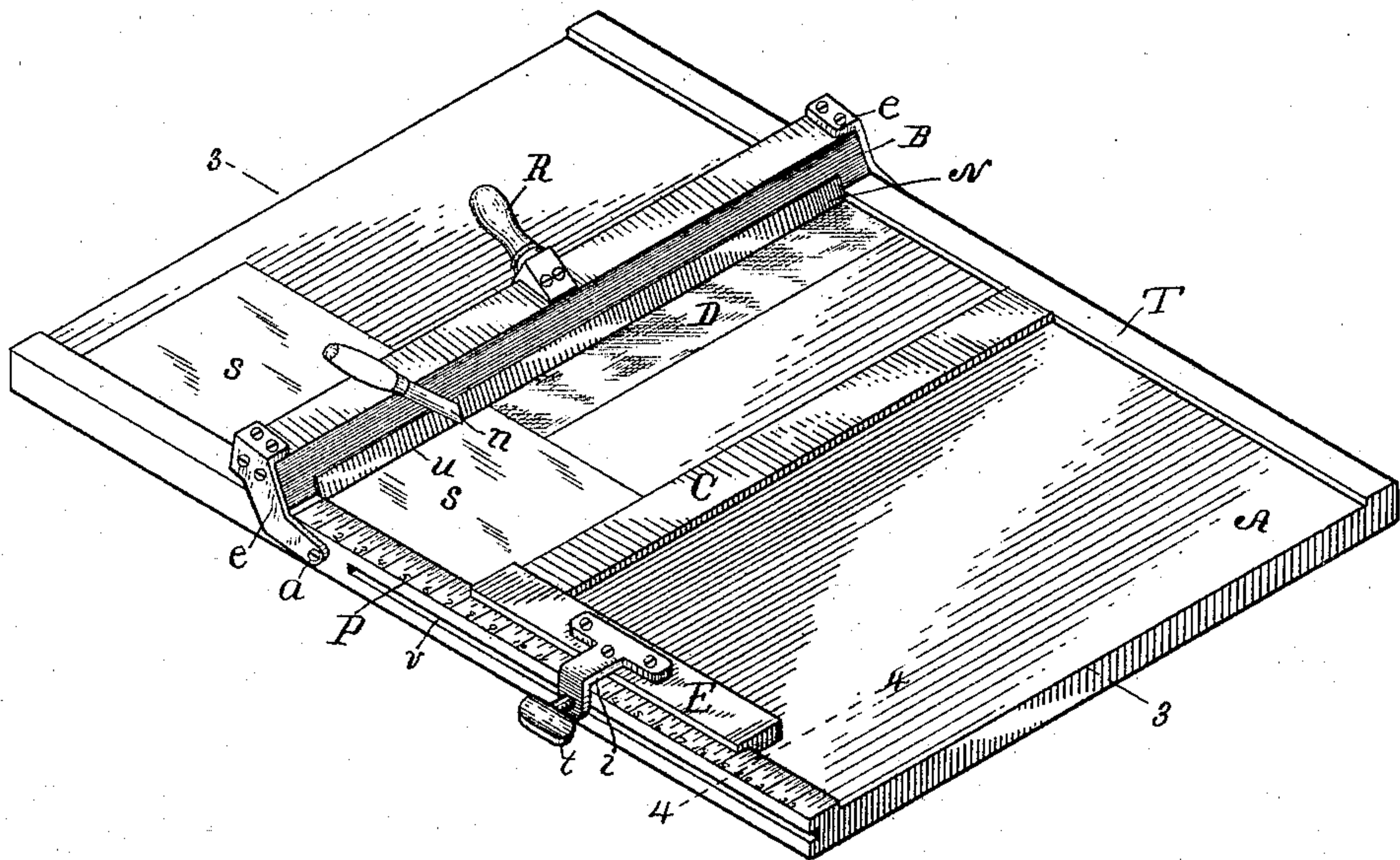


Fig. 1

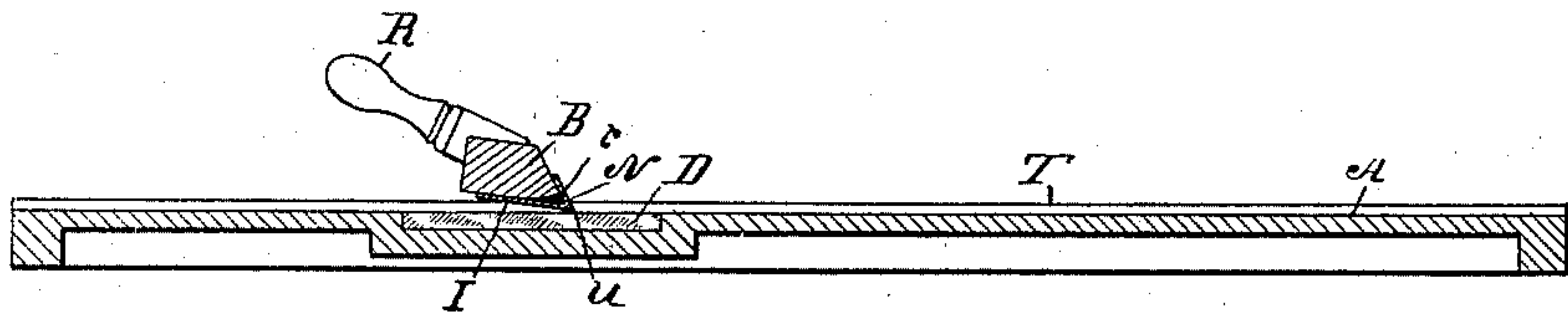


Fig. 2

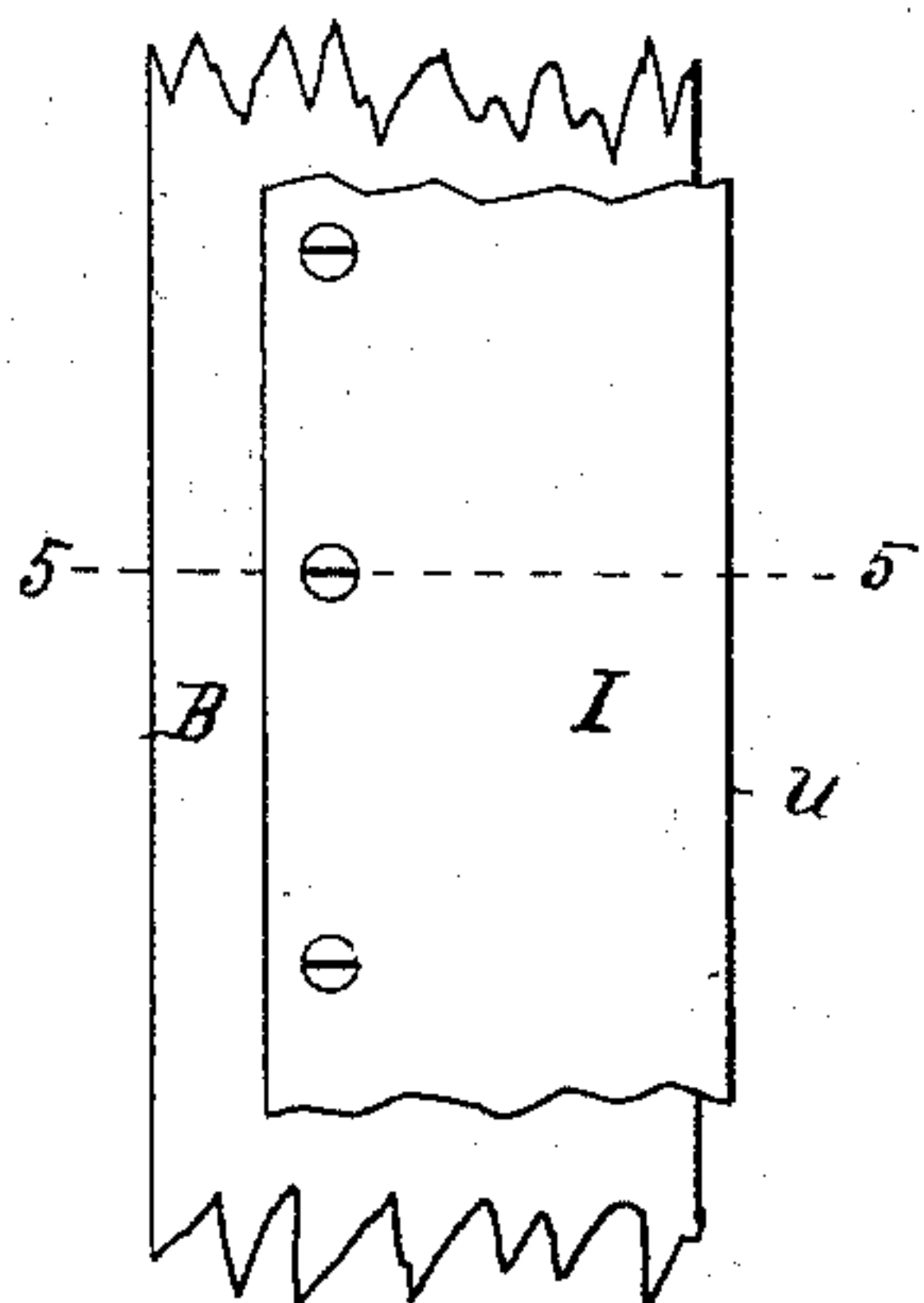


Fig. 3

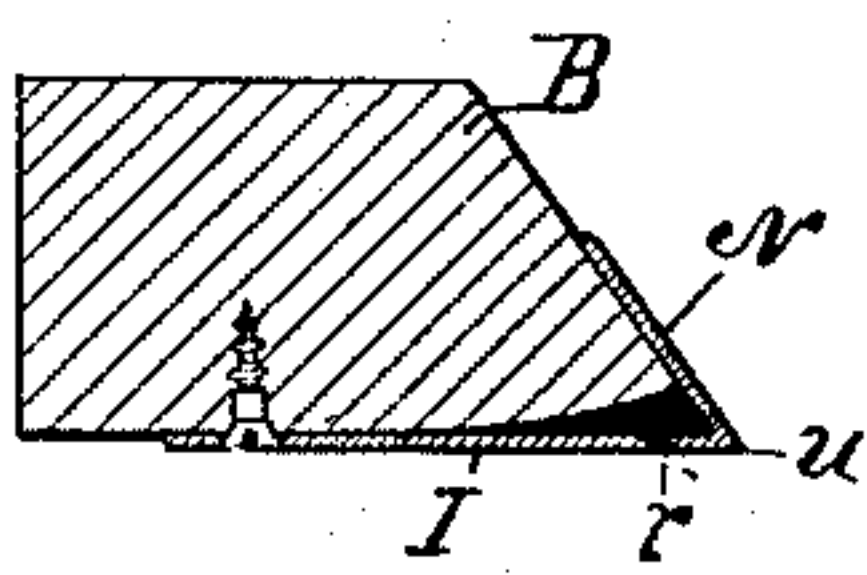


Fig. 4

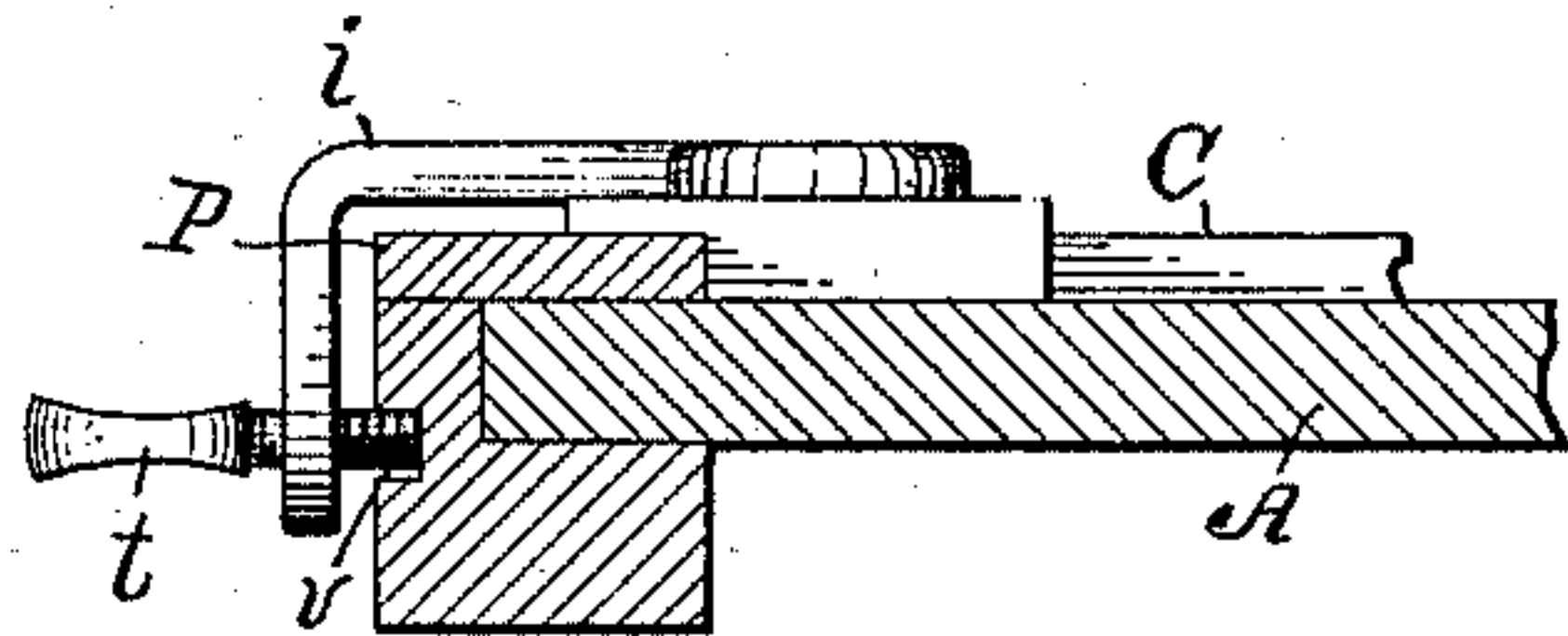


Fig. 5

Witnesses:

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UNITED STATES PATENT OFFICE.

THOMAS E. WOOD, OF KALAMAZOO, MICHIGAN.

PHOTOGRAPHIC-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 477,728, dated June 28, 1892.

Application filed July 9, 1891. Serial No. 398,930. (No model.)

To all whom it may concern:

Be it known that I, THOMAS E. WOOD, a citizen of the United States, residing at Kalamazoo, county of Kalamazoo, State of Michigan, have invented a new and useful Photographic-Paper Holder and Cutter, of which the following is a specification.

This invention relates to the class of paper holders and cutters in which the paper is clamped or held under a bar or straight-edge onto a flat surface and is cut by means of a knife or cutting-tool being drawn along the edge of the clamping-bar in the hand of the operator.

The objects of this invention are to securely hold or clamp photographer's albumen or other photographic papers from displacement while being cut, to prevent the paper receiving a torn or ragged edge in being cut, and to provide means whereby sheets of different sizes or dimensions may be accurately squared and cut.

A still further object is to provide for cutting paper or card-board with beveled edges.

I attain the objects of my invention by means of the mechanism illustrated in the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of my device with a sheet of paper in position, showing the manner of holding and cutting the same. Fig. 2 is a longitudinal section on line 3 3 in Fig. 1. Fig. 3 is an inverted plan, enlarged, of a broken portion of one of the lettered parts of Fig. 1. Fig. 4 is a cross-section on line 5 5 of Fig. 3. Fig. 5 is an enlarged cross-section of a portion of Fig. 1 on line 4 4.

Similar letters refer to similar parts throughout the several views.

In the drawings, A represents a board having the raised guide-strips P T at the sides. C E is a gage in the form of a square with the thickened part E gained out to fit guide-strip P, as shown. Said gage may be moved on guide-strip P and secured at any point desired by means of the clamp *i*, secured to E and thumb-screw *t*, the end of the threaded portion of thumb-screw *t* engaging in groove *v*, as shown in Figs. 1 and 5. The portion C of the gage C E is intended to form a right angle with the guide-strip P.

For convenience in setting gage C E to determine the size of print or sheet to be cut the upper face of guide-strip P has a graduated scale, as shown in Fig. 1.

D, Fig. 1, represents a plate of glass embedded in board A, also shown in cross-section in Fig. 2, for the purpose of clamping and cutting the paper on, glass being preferable for this purpose, for the reason that the surface is smooth and hard and will not wear or become cut from constant use like a piece of wood, thereby always securing clean smooth-cut edges on the paper. It is apparent, however, that a cutting-plate of other substances may be used in lieu of glass, such as a plate of hard wood constructed so as to cut on the end of the grain, or a plate of vulcanized rubber or other like substance, and even some metals—such as zinc, copper, &c.—may be employed.

B, Fig. 1, represents a clamping-bar extending transversely across board A at right angles to guide-strip P and is pivotally fulcrumed to either side at *a* by means of the plates *e e*, secured to either end of said clamping-bar.

By means of the clamping-bar B the operator is enabled to firmly clamp or hold the paper on plate D from any displacement while being cut by pressing down on handle R.

Clamping-bar B is provided with the metallic spring-pressure plate N I, the two portions or sides forming an acute or V-shaped angle in cross-section, the portion I being secured to the under side of bar B, as shown in Figs. 3 and 4, while the portion N is left free to move on the beveled or inclined edge of said bar. To allow said pressure-plate to have an elastic or yielding movement, a portion of the vertex of the angle of bar B is removed, which forms the space *r*, between a portion of the contacting surfaces of said bar and plate, as shown in Figs. 2 and 4. The vertex *u* of the angle of said plate is made to press against the paper, and by its elastic or yielding movement a pressure is obtained at or near the point of cutting, thus firmly holding the paper from any displacement and preventing the edges from being torn while being cut. The vertex *u* of said pressure-plate also affords a guide for the knife *n* when cut-

ting the paper, a sheet of which is shown at s, Fig. 1. When desired to cut beveling, tip the knife over against the inclined face of plate N. By referring to Fig. 1 it will be noticed that clamping-bar B is fulcrumed forward of the contacting-point or point where the pressure is applied to the paper. This gives an advantage in leverage and admits of the bar being raised for the purpose of adjusting the paper to be cut.

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

1. In a photographic-paper holder and cutter, the combination of a pressure-plate having two converging sides or walls forming an acute or V-shaped angle in cross-section, a pressure-bar adapted to engage the inner angle of the two converging sides of said pressure-plate, one of the sides of said pressure-plate being secured to said pressure-bar, said pressure-bar having a portion cut away at the vertex of the angle engaging said pressure-plate to allow said pressure-plate to have

an elastic or spring movement, substantially as shown and set forth.

2. In a photographic-paper holder and cutter, the combination of the board A, the guide-strip P, having a graduated scale, the squaring-gage C E, the clamp *i*, thumb-screw *t*, and groove *v*, substantially as shown and specified.

3. In a photographic-paper holder and cutter of the character herein described, a clamping-bar fulcrumed thereto and provided with a metallic spring or yielding pressure-plate having an acute or V-shaped angle the vertex of which shall press upon the paper for the purpose of holding it from displacement and serve as a guide for the cutting-tool, substantially as shown and described.

In testimony of the foregoing I have hereunto subscribed my name in presence of two witnesses.

THOMAS E. WOOD.

Witnesses:

BEECHER G. FUNK,
JOHN F. MUFFLEY.