

(No Model.)

W. A. KELSEY.
CARD CUTTING MACHINE.

No. 337,270.

Patented Mar. 2, 1886.

Fig. 1.

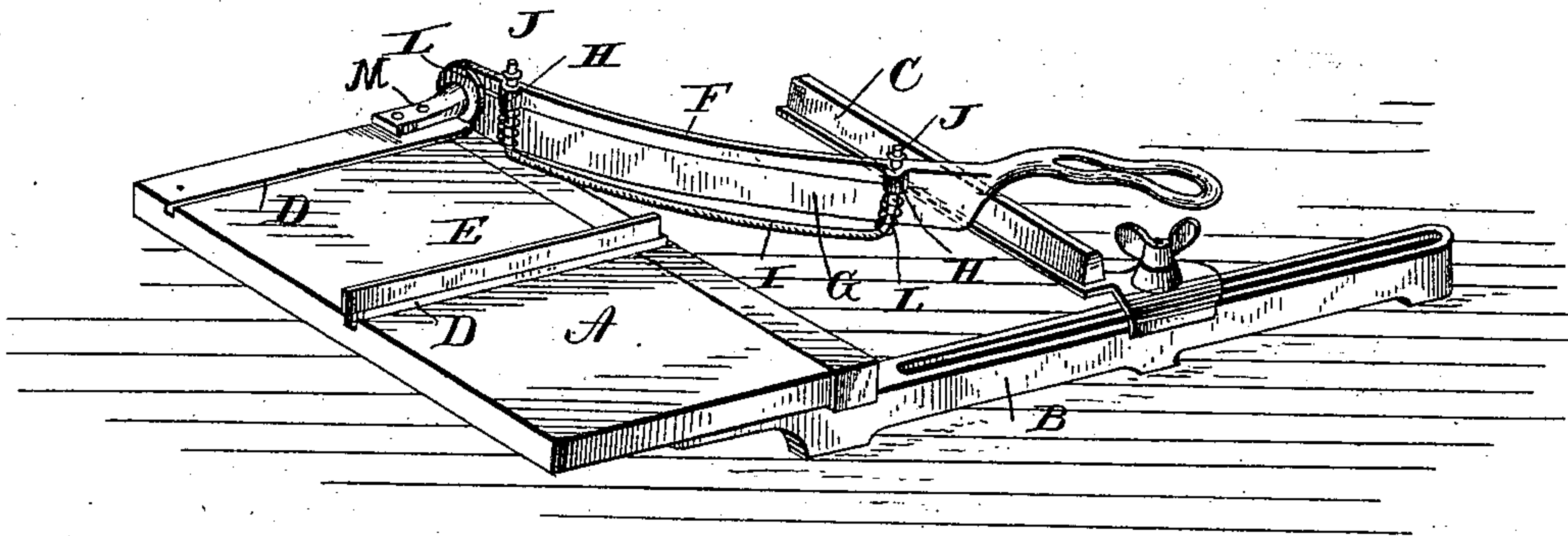


Fig. 2

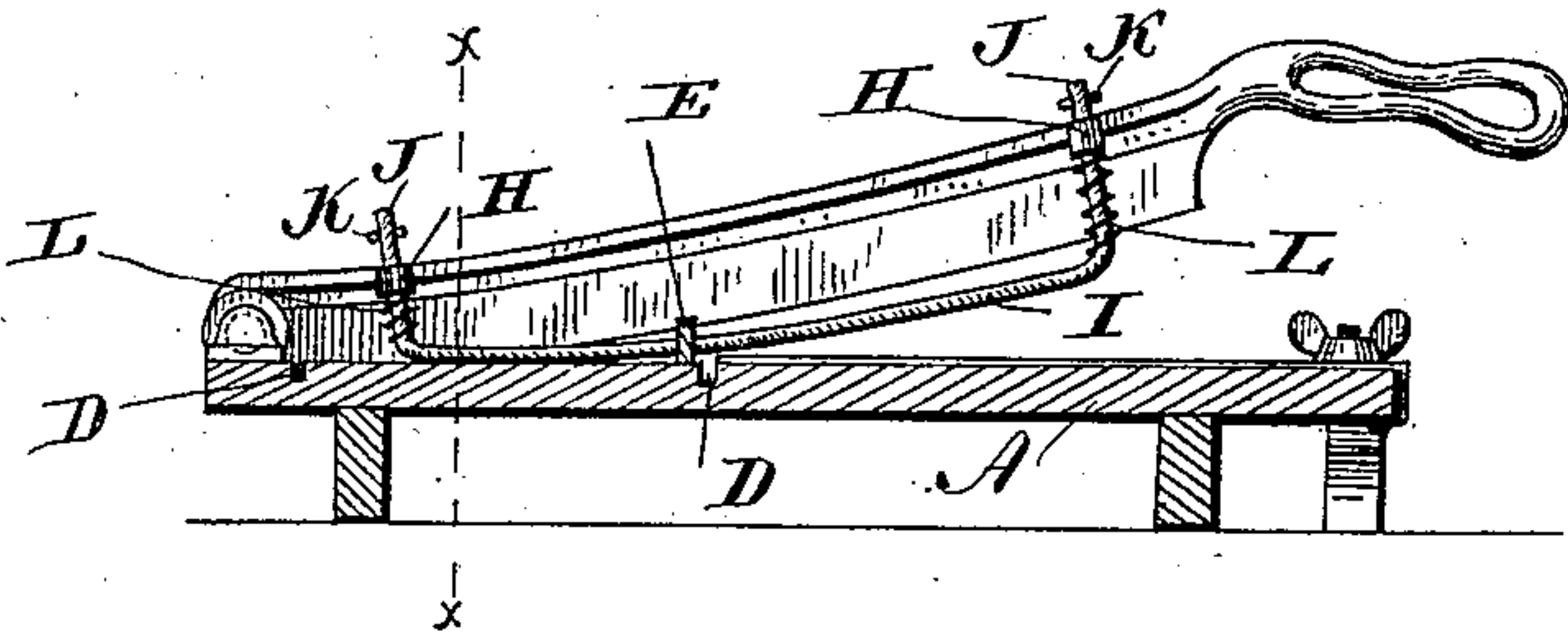
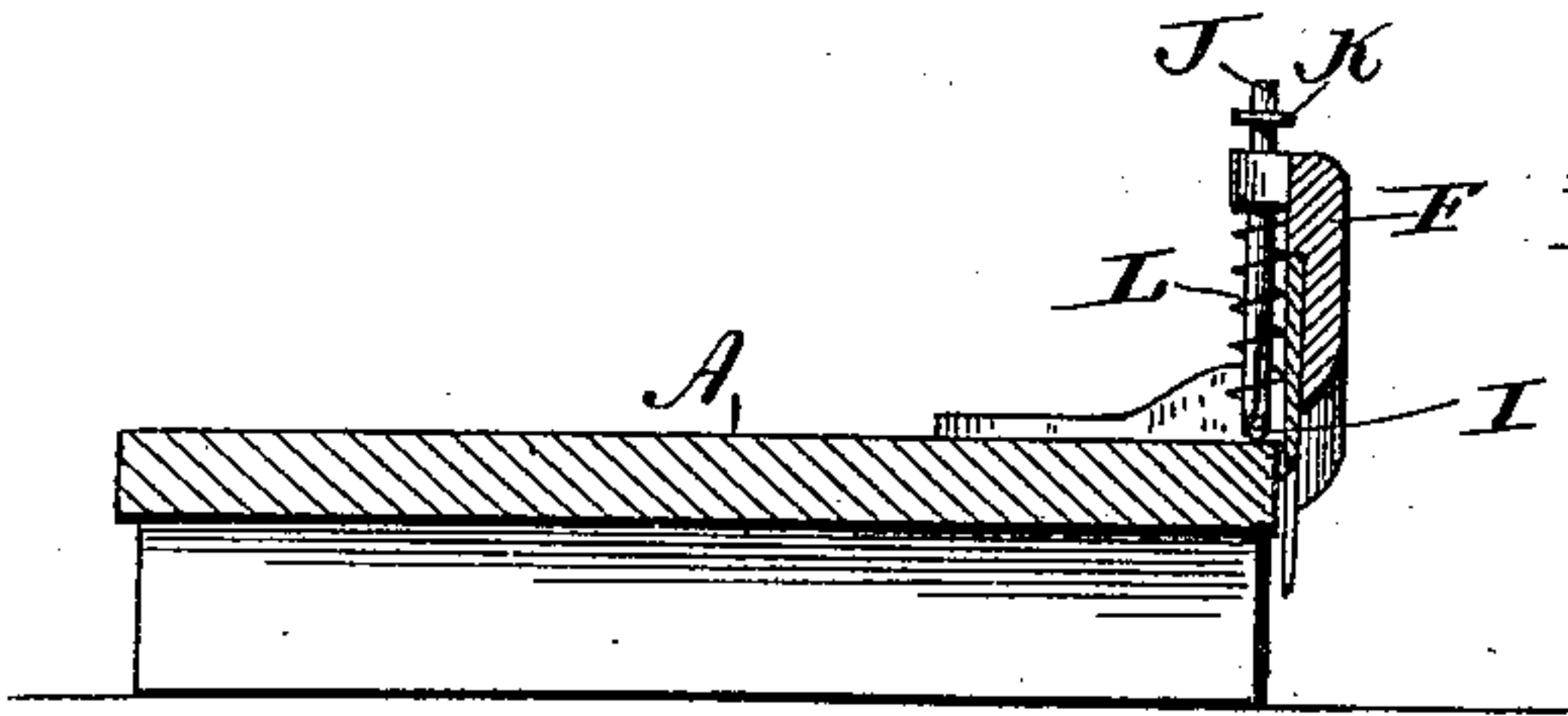


Fig. 3.



WITNESSES

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WILLIAM A. KELSEY, OF MERIDEN, CONNECTICUT.

CARD-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 337,270, dated March 2, 1886.

Application filed April 30, 1885. Serial No. 164,020. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. KELSEY, a citizen of the United States, and a resident of Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Card-Cutting Machines; 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 my improved card-cutter, showing the same with the knife or lever in a raised position. Fig. 2 is a vertical sectional view taken longitudinally through the base of the machine; and Fig. 3 is a transverse sectional view taken on the line *x x* in Fig. 2.

The same letters refer to the same parts in all the figures.

This invention relates to that class of devices which are known as "card-cutters," and which are used for cutting paper, card-board, and the like; and it has particular reference to that kind of card-cutters which are provided with a pivoted knife or shear cutter.

My invention consists in providing a knife in a card-cutter of this class with a clamp permanently attached thereto, for the purpose of holding the card-board firmly upon the bed of the machine while it is being cut, said clamping device being automatic in its action, performing the functions of the separately-adjustable clamps now commonly used for the same purpose, and having its lower central operative portion curved to conform to the curvature of the cutting-edge of the knife-blade (which is pivoted at one end and arranged to operate with a shear cut) to adapt it to operate smoothly and evenly in conjunction with the said curved cutting-edge of the knife-blade.

With this end in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A design-

ates the bed or base of the machine, which is provided at its front edge with a laterally-extending slotted arm, B, carrying an adjustable gage-rod, C. The said base or bed is provided with transverse grooves D D, cast therein, to receive the gage-bar E. By forming these grooves by casting they may be made at much less expense than by planing them in the bed or base, as is commonly done.

F designates a lever, which is suitably hinged or pivoted at the outer corner of the rear edge of the base by means of the pivot-pin M, and which carries a knife or cutter, G, of ordinary construction, adapted to act in a shear-like manner, together with the outer edge of the base. Formed upon the inner side of the said lever are a pair of vertically-perforated lugs, H H, adapted to receive the clamp I, which may consist, simply, of a stout metal wire, the ends of which are bent upward so as to form arms J J, the upper ends of which may be provided with washers, or with transverse pins K K, to retain the device in position. Upon the arms J J, below the lugs H H, are placed coiled springs L L, whereby the clamp is forced in a downward direction. The central operative portion of the clamp I is, as shown, curved so as to conform to the curvature of the cutting-edge of the knife-blade G; and it will be seen that as the clamp operates in conjunction with the pivoted knife it will, on account of the curvature of its central operative portion, bear smoothly and evenly from the start upon the card or other material being cut.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. When the knife-carrying lever is depressed for the purpose of cutting material which may have been placed upon the bed of the machine, the clamp will press firmly against such material and hold it securely while it is being cut. By raising the lever the pressure is released. This device is simple in construction and effective in operation, and it saves the adjustment of separate clamps or holders.

I am aware that cutting-machines provided with an oscillating knife and adjustable stops are old; and I am also aware that it is old to employ in conjunction with a vertically-sliding knife an automatic paper-clamp hav-

ing a straight operative lower edge; and I do not therefore claim either of such constructions; but

What I claim as my invention, and desire to
5 secure by Letters Patent of the United States, is--

As an improvement in paper-cutters, the combination, with the knife-carrying lever pivoted or hinged at one end, of the herein-
10 described spring-actuated clamp having the

curved operative portion, and arranged to operate in the manner and for the purpose shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature 15 in presence of two witnesses.

WILLIAM A. KELSEY.

Witnesses:

F. C. EDGERTON,
H. M. COOK.