

No. 789,863.

PATENTED MAY 16, 1905.

E. LONG.
BEVEL EDGER.

APPLICATION FILED NOV. 25, 1904.

Fig. 1.

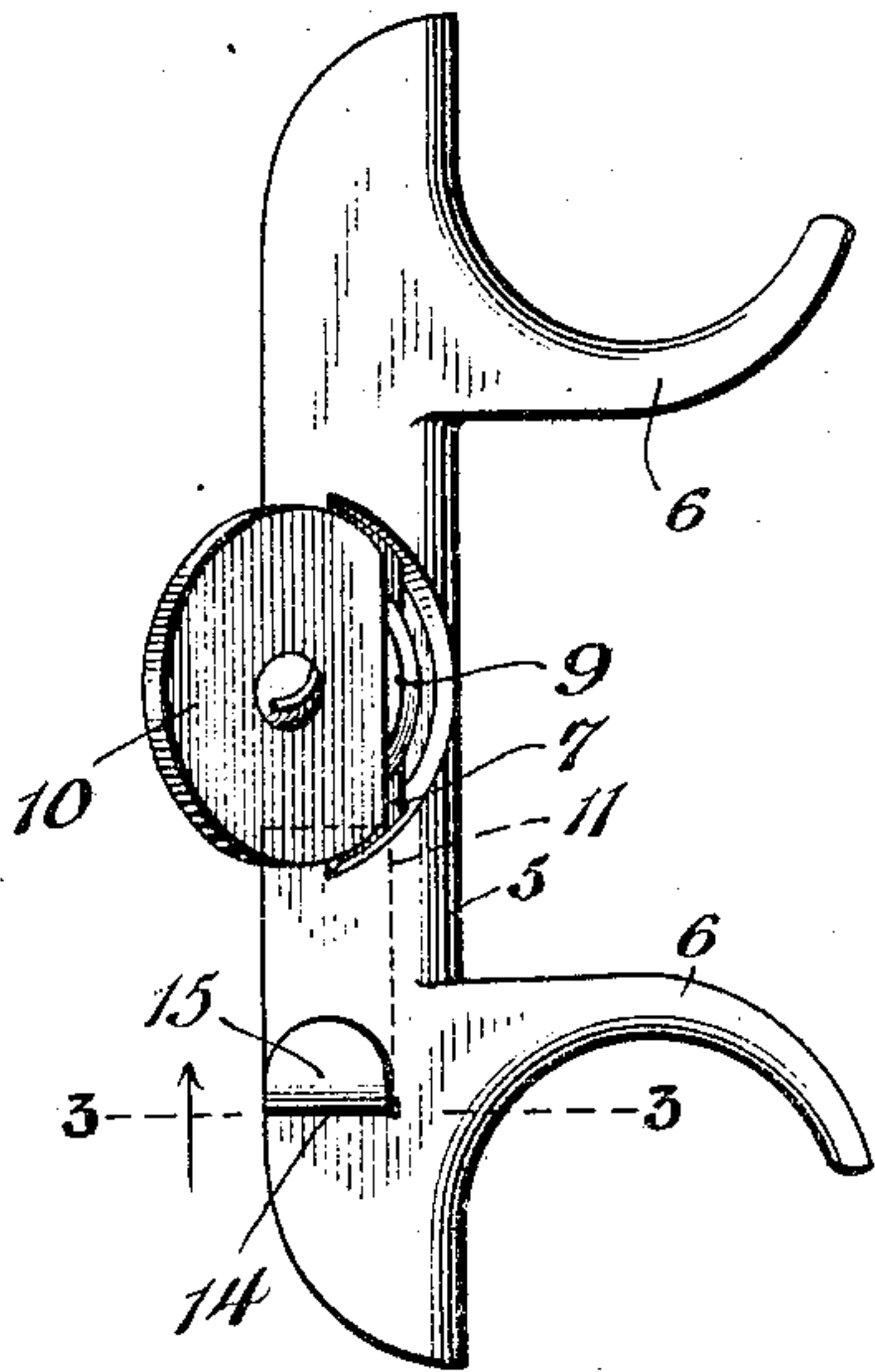


Fig. 2.

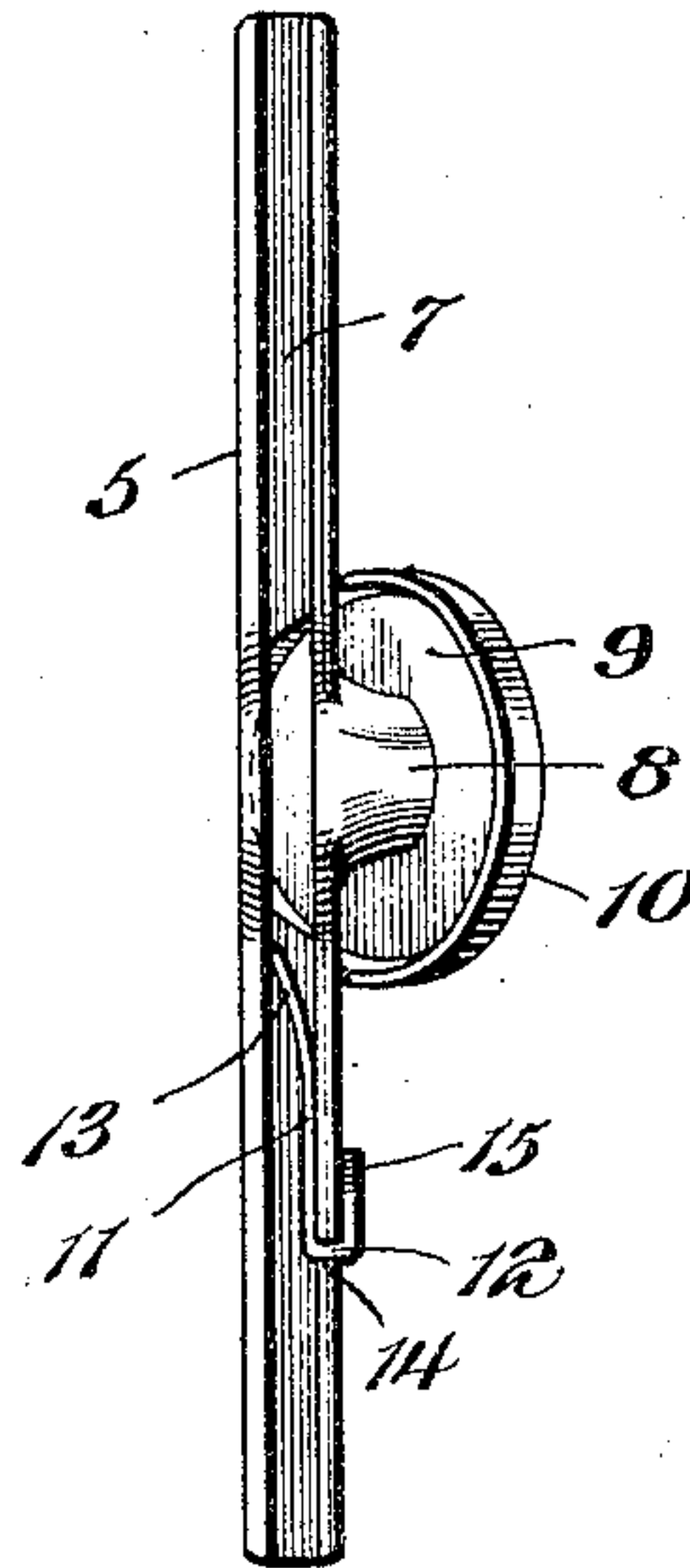


Fig. 3.

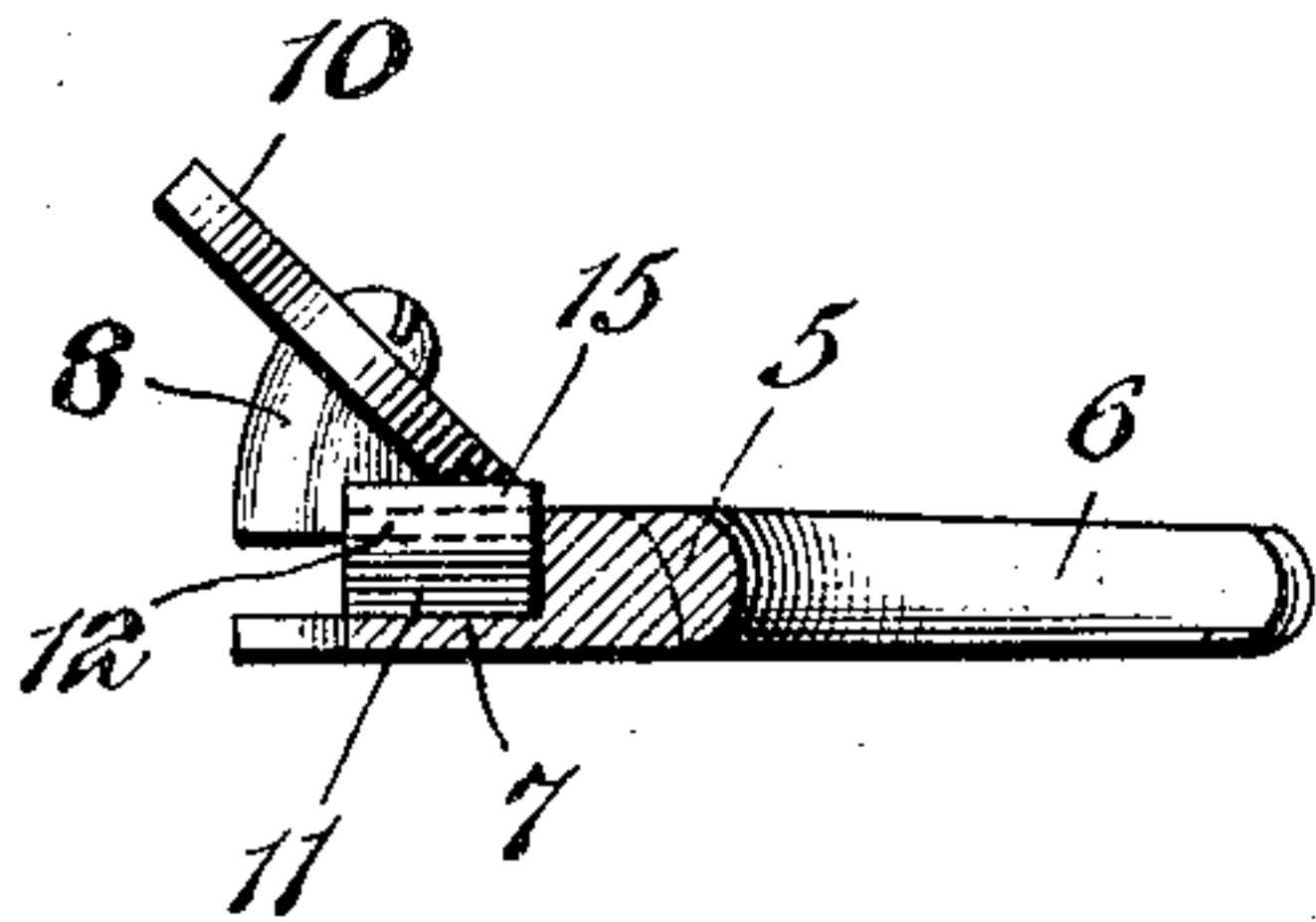
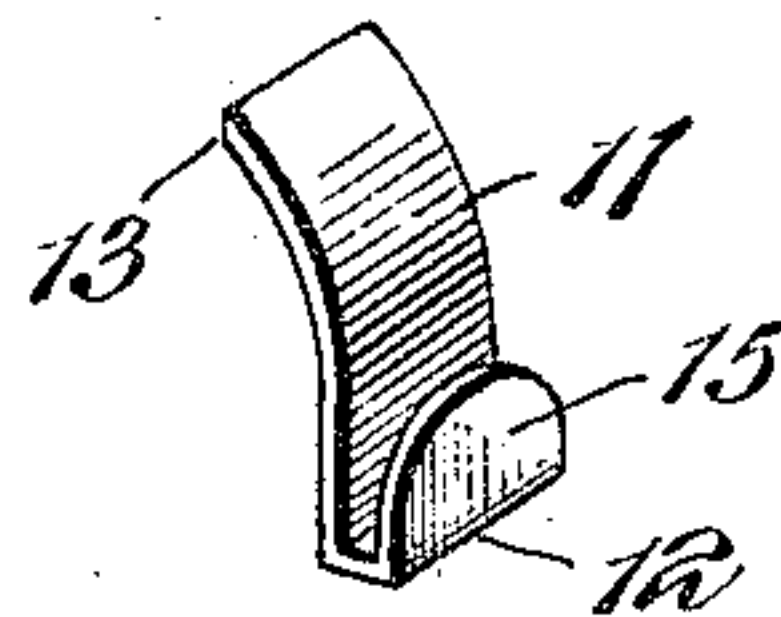


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

EDWIN LONG, OF CEDAR RAPIDS, IOWA.

BEVEL-EDGER.

SPECIFICATION forming part of Letters Patent No. 789,863, dated May 16, 1905.

Application filed November 25, 1904. Serial No. 234,308.

To all whom it may concern:

Be it known that I, EDWIN LONG, a citizen of the United States, residing at Cedar Rapids, in the county of Linn and State of Iowa, have
5 invented a new and useful Bevel-Edger, of which the following is a specification.

This invention relates more particularly to that type of cutting devices set forth in and covered by Letters Patent No. 765,391, granted to me on July 19, 1904. In extensive practice it has been found that where such edgers are employed upon comparatively thin and flexible cardboard there is a tendency of the latter to buckle in the guideways, there-
15 by preventing the completely successful operation of the edger.

The object in the present case is to provide novel means of a very simple character which will firmly hold the work while the same is
20 being fed to the cutter, thus obviating the above objection, said means being readily detachable, so that it will not interfere with the employment of the device upon thick and comparatively stiff cards needing no such
25 holding means.

An embodiment of the invention which is at present considered preferable is illustrated in the accompanying drawings, wherein—

Figure 1 is a plan view of the cutter, showing the improvement in place thereon. Fig. 2 is a view in elevation of the same. Fig. 3 is a cross-sectional view taken on the line 3 3 of Fig. 1. Fig. 4 is a detail perspective view of the presser-spring.

Similar reference-numerals designate corresponding parts in all the figures of the drawings.

The edger illustrated is similar in all respects to that set forth in the patent of which mention
30 has been made, and therefore no detailed description of the same is thought to be necessary. Suffice it to state that a stock 5 is employed having transversely-disposed handles 6 projecting from one edge and provided in its opposite edge with a longitudinally-disposed slot
35 7, forming a guideway. A boss 8, located on one side of the stock, carries a cutter 9, the inner portion of which extends into the guideway 7 at an inclination, the outer portion of

the cutter, which would otherwise be exposed, 50 being covered by a guard-cap 10.

The improvement as illustrated in the present embodiment consists of a presser spring-arm 11, the main portion of which is bowed and terminates at one end in a hook 12 and
55 at the other end is provided with a beveled terminal 13. The hook portion 12 is detachably seated in a transverse slot 14, formed in one of the walls of the guideway, said hook portion thus embracing the wall and having
60 a terminal bill 15 arranged outside the same, while the main portion of the spring-arm extends diagonally across the guideway in advance of the cutter and has its free terminal bearing against the wall opposite to that hav-
65 ing the slot.

When thin or flexible work is to be beveled, the presser is slipped into position, and consequently it will be apparent that this work, passed longitudinally through the guideway, 70 will be held firmly against one wall of the same by the presser just prior to its engagement with the cutter. Therefore a neat clean cut will be effected, the same as with the stiffer thicker grades of cardboard. On the
75 other hand, when such cardboard is employed and the presence of the presser is unnecessary the same may be readily removed, thus leaving the guideway unobstructed.

From the foregoing it is thought that the 80 construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, pro-
85 portion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, what 90 I claim as new, and desire to secure by Letters Patent, is—

1. In a cutter of the class described, the combination with a stock having a longitudinally-disposed guideway provided with spaced 95 side walls, of a beveled cutter located at an inclination in the guideway and between the ends of the walls thereof for operating on the

work passed through the guideway, and a yielding work-presser secured to and between the ends of one wall of the guideway, said presser being located wholly within the guideway and bearing against the opposite wall to which it is secured.

2. In a cutter of the class described, the combination with a stock having a guideway, of a cutting device for operating on the work placed in the guideway, one of the walls of said guideway having a seat between its ends, and a yielding work-pressing device having a portion engaged in the seat, said device yieldingly pressing the work passed through the guideway against the opposite wall.

3. In a cutter of the class described, the combination with a stock having a guideway, of a cutter for operating on the work placed in the guideway, one of the walls of said guideway having a transverse slot between its ends, and a yielding work-pressing spring having a portion located in the slot, said spring being provided with a free terminal bearing against the wall opposite to that having the slot.

4. In a cutter of the class described, the

combination with a stock having a guideway, of a cutter for operating on the work placed in the guideway, and a yielding work-pressing spring having a hook portion that embraces a portion of one wall of the guideway and constitutes holding means for the spring, said spring extending across the guideway and bearing upon the work passed therethrough.

5. In a cutter of the class described, the combination with a stock having a longitudinally-disposed guideway, one of the walls of which is provided between its ends with a transverse slot, of a cutter mounted on the stock and extending at an inclination into the guideway, and a spring having a hook portion located in the slot and embracing a portion of said wall to hold the spring in place, said spring being bowed and extending at an inclination across the guideway.

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

EDWIN LONG.

Witnesses:

LEW W. ANDERSON,
GUSSIE MARTIN.