

(No Model.)

G. W. TANNER.
CIGAR WRAPPER CUTTING MACHINE.

No. 474,107.

Patented May 3, 1892.

Fig. 1.

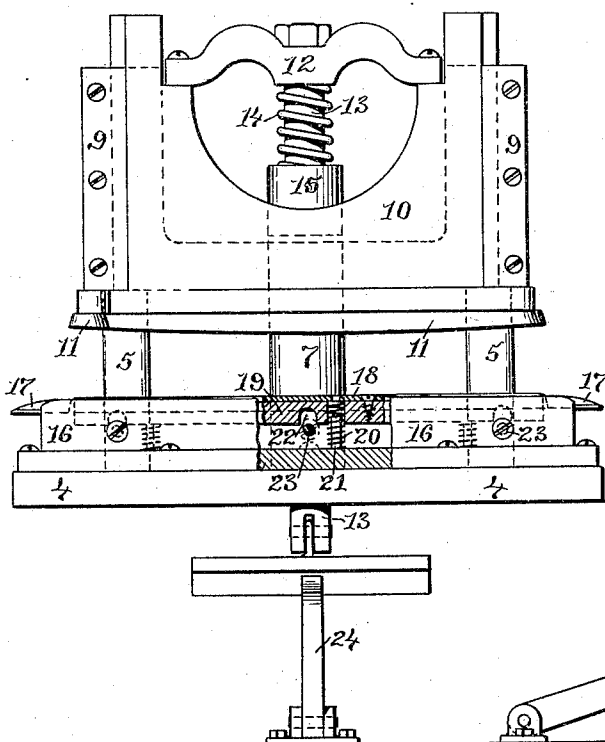


Fig. 2.

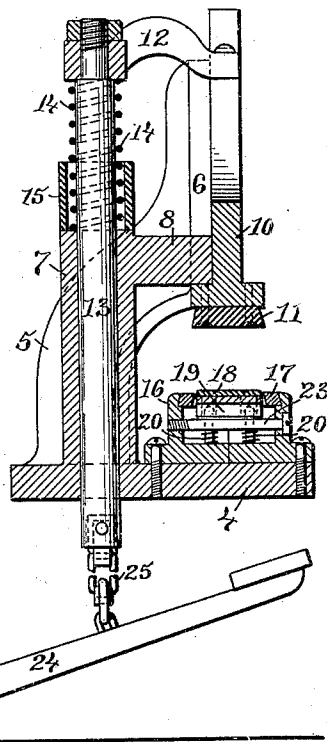
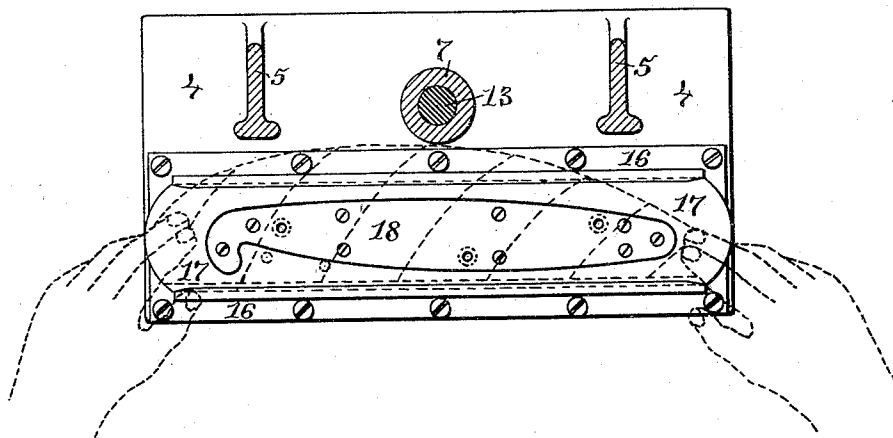


Fig. 3.



WITNESSES:

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GEORGE W. TANNER, OF PROVIDENCE, RHODE ISLAND.

CIGAR-WRAPPER-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 474,107, dated May 3, 1892.

Application filed June 20, 1891. Serial No. 396,931. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. TANNER, of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Cigar-Wrapper-Cutting Machines; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in machines for cutting cigar-wrappers.

The object of this invention is to produce a cigar-wrapper cutter which will more quickly and efficiently accomplish the work for which it is adapted than the machines of this class as heretofore constructed.

The invention consists in the construction and combination of parts, as hereinafter specifically set forth by the claims.

Figure 1 is a front view of the improved cigar-wrapper cutter, a portion of the platen-case being broken away to indicate the construction of the lower die and the arrangement of the supporting-springs. Fig. 2 is a vertical sectional view of the machine. Fig. 3 is a top view of the stationary cutting-die and spring-lifted platen with a leaf of tobacco placed on them ready to be cut, the supports for the upper die and operating mechanism being shown in section.

Similar numbers of reference designate corresponding parts throughout.

In the drawings, 4 indicates the base of a casting having the upright guide-supports 5 5, connected by the cross-plate 6, and a central vertical tubular standard 7, connected with the plate 6 by the arm 8. The vertical parallel guides 9 9 are secured to the faces of the guide-supports 5 5, and between these guides the plate 10, supporting the upper cutting-die 11, is free to move in a vertical direction. This plate 10 is connected by the yoke-piece 12 to the upper end of the rod 13, movable in the tubular standard 7, and is operated in an upward direction by the coiled spring 14, carried around the upper portion of the rod and bearing against the lower surface of the yoke-piece 12 and against the upper end of the standard 7, while the spring is surrounded for a portion of its length by the tube 15.

The upper cutting-die 11 is secured to the lower surface of the plate 10 and may be of any desired size or shape. This die is somewhat thicker in the center than at the ends, to which it is gradually tapered in order that the center of the die will first act on the material to be cut, and as it is forced farther down the tapering edges will give a shearing cut to the material through which the die passes.

The platen-case 16 is secured to the base 4 directly under the die 11 and is provided with a cover or stationary cutting-die 17, adapted to slide in grooves cut near the upper edges of the sides of the platen-case 16. The central portion of the stationary cutting-die plate is cut away in an outline corresponding in shape to the shape of the cutting-die 11 and of a size slightly greater than that die. The space thus cut away is filled by a correspondingly-shaped supporting-platen 18, which has a metal surface and a wood backing 19, or it can be made wholly of metal, and is supported on the coiled springs 20, carried on the pins 21, the backing 19 being cut away, as at 22, to allow the cutting-die to be pressed downward without striking against the screws 23, which hold the sides of the case 16 together.

This wrapper-cutting machine may be mounted on any work-bench or other suitable support, and is operated by the treadle 24, pivotally secured at one end to the floor and connected by the chain 25 to the lower end of the rod 13.

In this machine the space between the dies may be considerably greater than in the ordinary machines, and consequently a greater number of leaves may be placed in position to be cut, and this without danger to the operator. The leaves having been spread over the stationary cutting-die 17 and held as is shown in Fig. 1, pressure is applied to the treadle 24 and the upper cutting-die 11, operated by the rod 13 and the sliding plate 10, moves downward, the center of the cutting-die first striking the leaves, and is forced through the leaves, pressing the cut-out portions down onto the supporting-platen 18, which is forced downward into the case 16. When the treadle 24 is released, the coiled spring 14 tends to lift the upper cutting-die

11 back into position, and the coiled springs 20 force the supporting-platen 18 upward slightly above the level of the stationary cutting-die 17 and in a position from which the 5 wrappers may be readily removed and handled with less liability of injury and without the tendency to curl the hook ends, as is usually the case.

Having thus described my invention, I 10 claim as new and desire to secure by Letters Patent—

1. The combination, with the platen-case 16, secured below the upper cutting-die of a cigar-wrapper cutter and provided with the 15 sliding cutting-die 17, of the supporting-platen 18, operated by the springs 20, carried on the pins 21, as described.

2. The combination, with the base 4, having guide-supports 5 5 and a central tubular standard 7, the cross-plate 6, and guides 9 9, secured 20 to the face of the supports 5 5, the plate 10, provided with the reciprocating cutting-die 11, vertically movable in said guides, and a depressible spring-lifted rod 13, movable in the standard 7, connected with the plate 10 by the 25 yoke 12, of the platen-case 16, provided with the sliding cutting-die 17 and the spring-operated supporting-platen 18, as described.

In witness whereof I have hereunto set my hand.

GEORGE W. TANNER.

Witnesses:

J. A. MILLER, Jr.,
M. F. BLIGH.