No. 807,239. PATENTED DEC. 12, 1905.

R. BRITTON.

CUTTING DEVICE.

APPLICATION FILED MAR. 2, 1904.

Fig. 1.

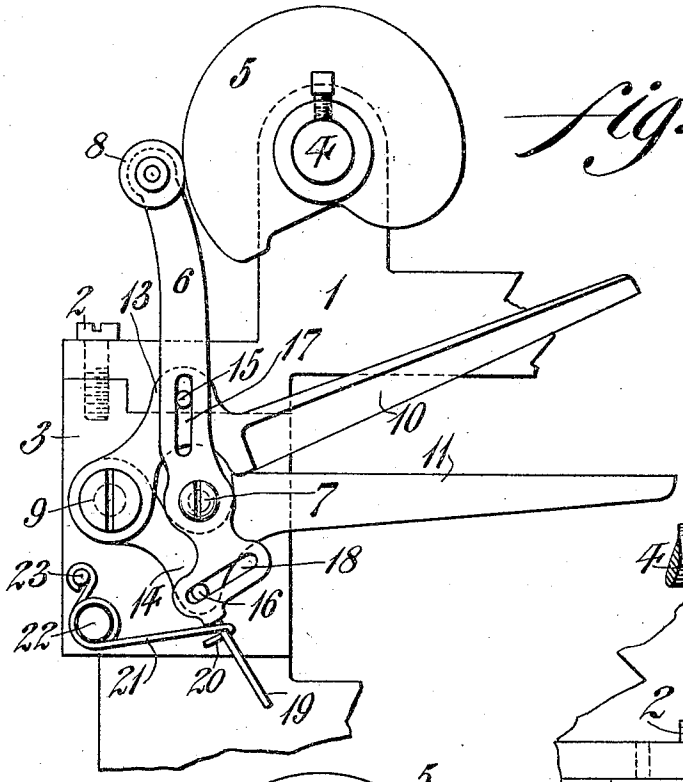


Fig. 3.

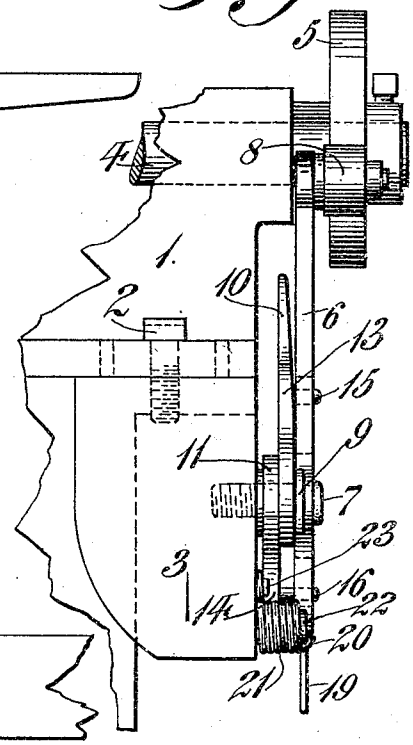
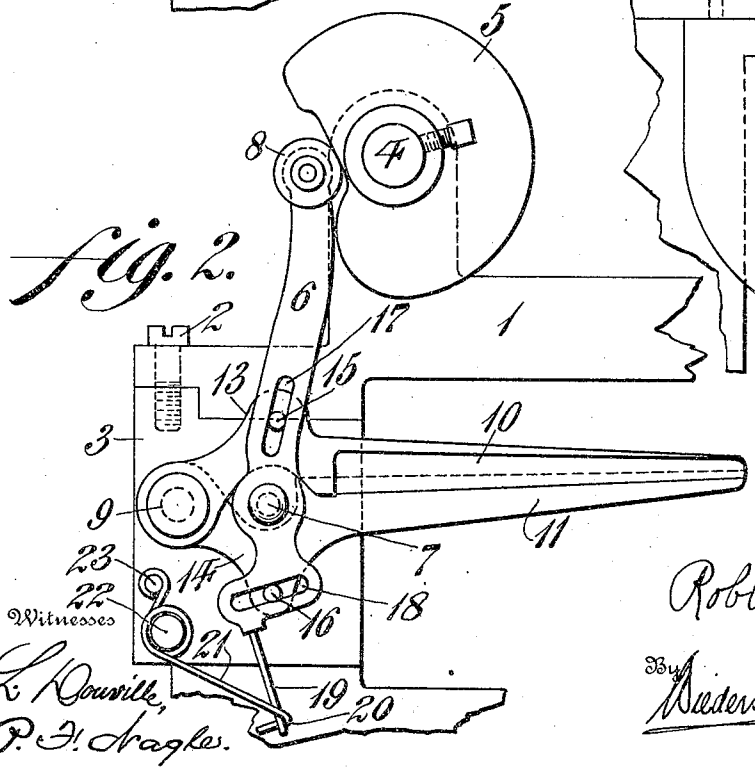


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

ROBB BRITTON, OF CLIFTON, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO MAYER M. SWAAB, JR., AND HENRY FLEER, OF PHILADELPHIA, PENNSYLVANIA.

CUTTING DEVICE.

No. 807,239. Specification of Letters Patent. Patented Dec. 12, 1905.

Original application filed December 14, 1903, Serial No. 185,005. Divided and this application filed March 2, 1904. Serial No. 196,135.

To all whom it may concern:

Be it known that I, ROBB BRITTON, a citizen of the United States, residing at Clifton, in the county of Delaware and State of Pennsylvania, have invented a new and useful Improvement in Cutting Devices, of which the following is a specification.

My invention relates to a novel construction of cutting device particularly adapted for use in a wrapping-machine or the like, but generally applicable to cutting into desired lengths a strip of paper, cloth, or similar material.

It further consists of novel means for moving both jaws of a shear simultaneously.

It further consists of novel features of construction, all as will be hereinafter fully set forth.

The present application is a division of my pending patent application for a wrapping-machine filed December 14, 1903, Serial No. 185,005.

Figures 1 and 2 represent elevations of my device in different positions. Fig. 3 is an elevation of my device at a right angle with that shown in the former figures.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, 1 designates the frame of a machine, to which is detachably secured by means of a screw 2 a block 3. Rotatably mounted on the frame 1 is a shaft 4, on which is secured a cam 5. A lever 6, pivotally mounted at 7 on the block 3, is provided with a roller 8, bearing against the cam 5. On the block 3 is a second pivot 9, on which are mounted shear-blades 10 and 11, each of which has a lug 13 14, in which are pins 15 16, respectively, having sliding engagement in slots 17 18 in the lever 6. Attached to the lower end of the lever 6 is a pin 19, on which slides the hooked end 20 of a spring 21, supported on studs 22 23 in the block 1.

The operation is as follows: Means (not shown) are preferably provided for passing a strip of material to be severed above the lower blade 11 of the shear. During the movement of the circular portion of the cam 5 on the roller 8 the blades are held in the position shown in Fig. 1 of the drawings. When the cam 5 turns so as to present its cut-away portion to the roller 8, the spring 21 acts to draw the lower end of the lever 6 to the left, as shown in Fig. 2 of the drawings, whereby through the movement of the pins 15 and 16 in the slots 17 and 18, respectively, the blades are brought together, as shown. By placing the slots 17 18 at different angles in the lever 6 the amount of movement given to the blades 10 11 is varied as desired. I have shown the blade 11 as moved only slightly from the horizontal position, while the blade 10 is moved through a relatively large angle.

It is evident that various changes may be made by those skilled in the art which will come within the scope of my invention, and I do not, therefore, desire to be limited in every instance to the exact construction herein shown and described. Thus it is clear that the cam may be used to positively move the shears in their closing direction, while the spring operates to open or release them.

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

1. A cutting device comprising suitably-supported shear-blades, a pivoted lever and pins and slots common to said lever and to both said shear-blades, whereby the movement of said lever actuates said shears said lever being pivoted between the point of support of said blades and the cutting edge thereof.

2. A cutting device comprising suitably-supported shear-blades, an intermittently-actuated pivoted lever and pins and slots common to said lever and to both said shear-blades, whereby the movement of said lever actuates said shears said lever being pivoted between the point of support of said blades and the cutting edge thereof.

3. A cutting device comprising suitably-supported shear-blades, a slotted lever pivoted between the point of support of said blades and the cutting edge thereof, pins on both said blades engaging in such slots and means for moving said lever whereby said shears are actuated.

4. A cutting device comprising suitably-supported shear-blades, a lever pivoted intermediate the point of support and the cutting edge of said blades, said lever being slotted at each side of its pivotal point, pins on said shear-blades engaging in such slots and means for moving said lever whereby said shears are actuated.

5. A cutting device comprising suitably-supported shear-blades, a pivoted lever pivoted between the pivotal point and the cutting

edge of said blades, pins and slots common to said lever and to both said blades whereby the movement of said lever actuates said blades.

6. A cutting device comprising suitably-supported shear-blades, a pivoted lever, means for actuating said lever and means common to said lever and to both the said blades, whereby the movement of said lever operates said shears said lever being pivoted between the point of support of said blades and the cutting edge thereof.

7. A cutting device comprising suitably-supported shear-blades, a pivoted lever, means for actuating said lever in one direction, means common to said lever and to both the said shear-blades, whereby the movement of said lever actuates said shears and a spring for operating said lever in the opposite direction from the first-mentioned means.

ROBB BRITTON.

Witnesses:
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