(No Model.)

H. C. MYERS.

CIGAR WRAPPER CUTTING MACHINE.

No. 375,502. Patented Dec. 27, 1887.

Fig. 1.

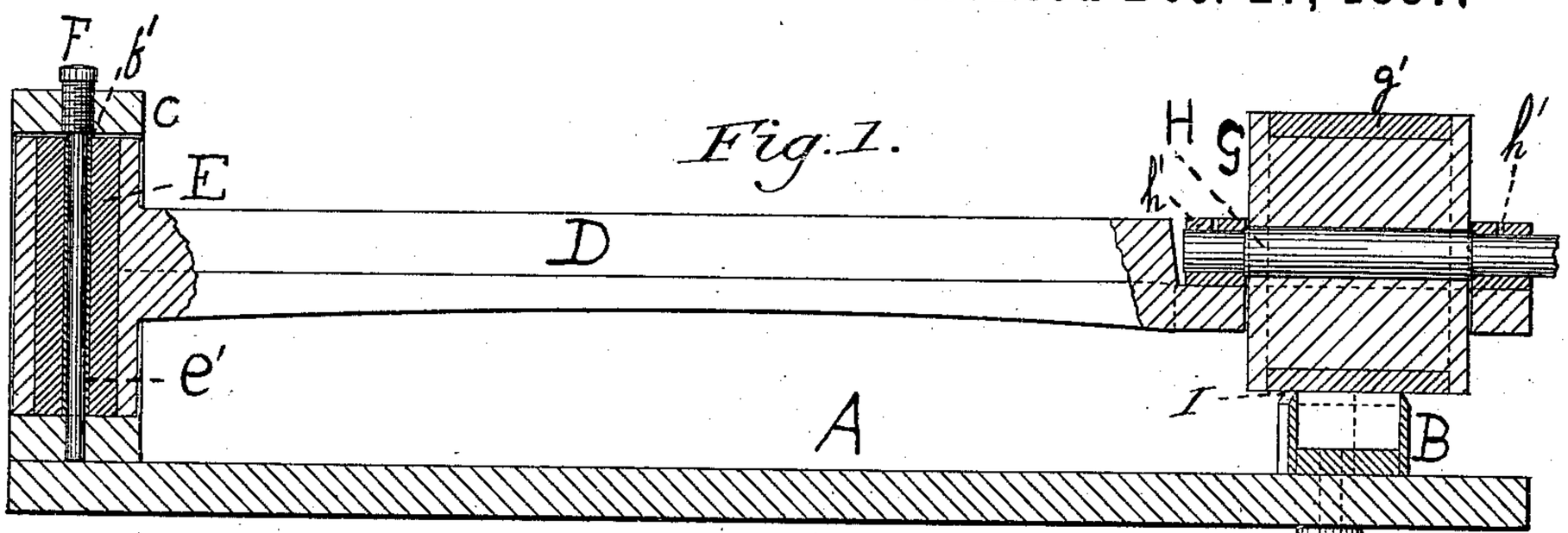


Fig. 2.

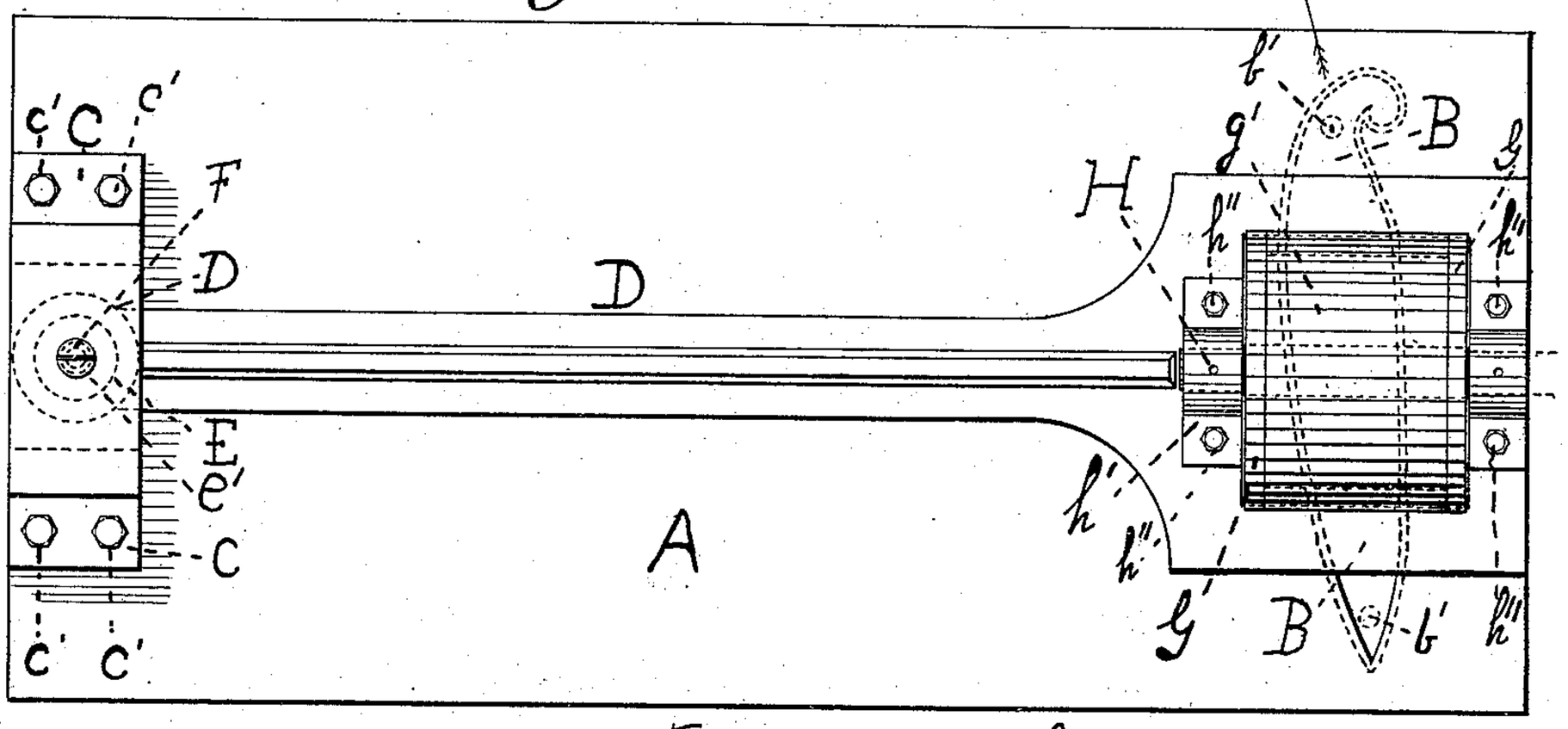
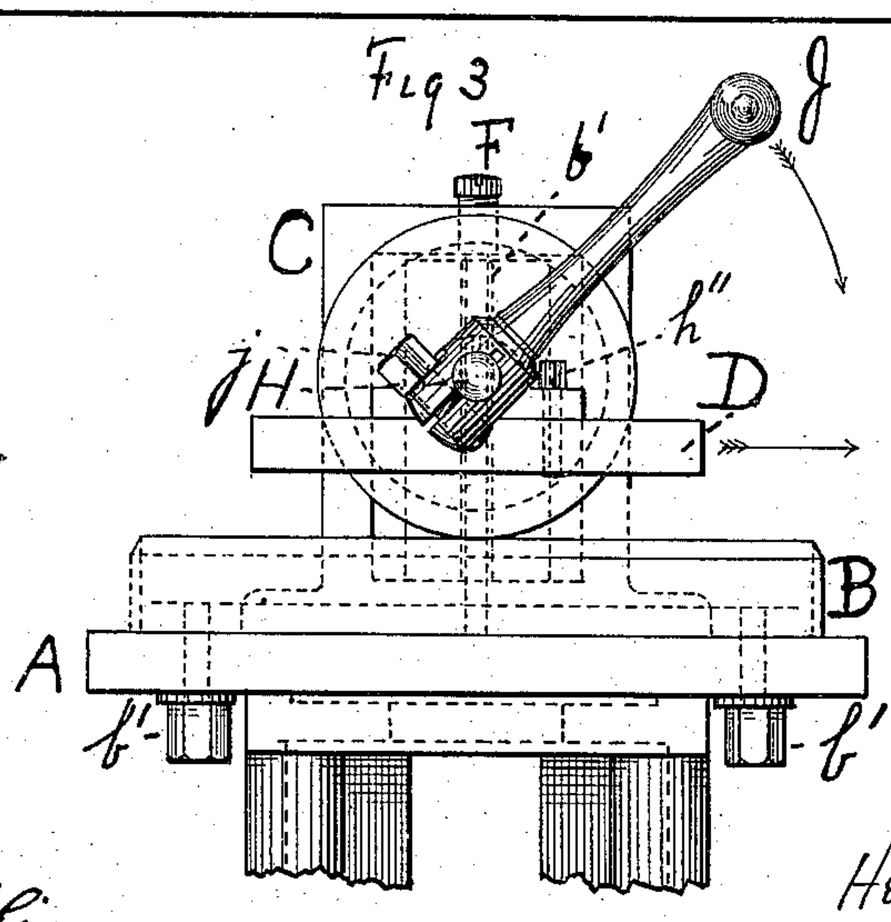


Fig 3



WITNESSES:

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HENRY C. MYERS, OF NEW YORK, N. Y., ASSIGNOR OF THREE-FIFTHS TO JAMES W. CAMERON AND CHARLES HERVEY JACKSON, OF SAME PLACE.

CIGAR-WRAPPER-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 375,502, dated December 27, 1887.

Application filed February 15, 1887. Serial No. 227,660. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. MYERS, a citizen of the United States of North America, and a resident of the city, county, and State of New York, have invented a new and useful Improvement in Cigar-Wrapper-Cutting Machines, of which the following is a specification.

The object of this invention is to cut cigar-wrappers in a uniform shape from the leaf.

The invention consists of a table or plate on which is securely fastened a yoked fulcrum or center carrying an arm having a roller and handle secured at the free end thereof, which roller bears heavily upon the edge of a cutter by means of an india-rubber spring inserted into the circular and vertical section of the arm, which rests in the yoke on a center pin. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the entire machine without the handle. Fig. 2 is a top view of the machine without the handle, looking down from above. Fig. 3 is a front end view of the bed-plate, arm, yoke, roller, journals, handle, and pin.

Similar letters refer to similar parts throughout the several views.

The machine rests on the table or bed-plate A.

B is the cutter or die on which the roller operates, as clearly shown in Fig. 2, and is secured to the bed-plate A by bolt *b'*.

C is the yoke, secured to the bed-plate A by bolt *c'*, in which the arm D is pivoted, as shown in Fig. 1. The vertical end of the arm D rests in the yoke C, and in this vertical end is held the rubber spring E and a tube, *e'*, which passes through the center of the india-rubber spring E.

E is the rubber spring, held in the vertical end of the arm D.

e' is the tube passing through the center of the india-rubber spring E.

F is the pin passing through the yoke C and into and through the center of the tube *e'*, and rests in the bottom of the yoke C, having on its upper end and under its head a screw-thread, *f'*, which screw-thread securely fastens the pin F to the yoke C. When the arm D rests far enough to the left of cutter B, the roller G is suspended over bed-plate A and is slightly below the edge of the cutter B. Leaves of tobacco are then placed in layers upon the face of the cutter B, and the roller G is moved forward in the direction of the arrow, as shown in Fig. 2, and impinges on the end of the cutter B and the tobacco resting thereon. By turning the handle J in the direction of the arrow, as shown in Fig. 3, the roller G and the arm D are allowed to rise by the yielding spring E in the vertical end of arm D. Thereby the yielding spring E causes the roller G, during the movements of the arm D, to tightly impinge upon the tobacco during its entire transit over the face of the cutter B. The metal tube *e'*, running through the center of the yielding spring E, makes a firm bearing on the pin F for the yielding spring E during the motion of the arm D over the face of the cutter B.

G is a roller carried on the free end of the arm D, and having a recessed face, which recess is filled with Babbitt or soft metal, *g'*. Passing through and secured to the center of the roller G is the shaft or spindle H, which rests outside of the roller G in bearings or boxes *h'*, secured to arm D by bolts *h''*. The face of the roller, *g'*, impinges on the edge of the cutter B.

J is the handle, as shown in Fig. 3, and is securely fastened at outer end of shaft H by clamp and bolt *j*. The handle J is securely fastened to the shaft H and the shaft H is secured to the roller G. When, therefore, the handle J is turned in the direction of the arrow, as shown in Fig. 3, it revolves the roller G, and thereby causes the roller G to move forward over the face of the cutter B.

I am aware that prior to my invention cigar-wrapper-cutting machines have been operated by means of an arm. I do not therefore claim such a combination, broadly, as is shown in Fig. 1; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. In a cigar-wrapper-cutting machine, in combination with a roller and cutting-die and means for supporting the latter, a pivoted arm upon which the roller is mounted, a pin passing through the vertical section of said arm, and an india-rubber spring surrounding said pin, substantially as and for the purpose set forth.

2. In a cigar-wrapper-cutting machine, in

combination with a roller and cutting-die and means for supporting the latter, and a pivoted arm upon which the roller is mounted, a pin passing through the vertical section of said arm, an india-rubber spring surrounding said pin, and a metal tube within said spring and surrounding said pin, substantially as and for the purpose set forth.

3. In a cigar-wrapper-cutting machine, in combination with the bed-plate, cutting-die, and yoke supported upon the bed-plate, the arm, the india-rubber spring placed within the vertical section of the arm, the metal tube, the pin passing through the tube and secured to the yoke, the roller having a soft-metal face, the shaft upon which the roller is secured, boxes in which the shaft rests, and the handle secured by clamps to the shaft, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in the presence of two witnesses, this 1st day of February, 1887.

HENRY C. MYERS.

Witnesses:
BARCLAY E. MCCARTY,
GREVILLE S. HAWES.