

(No Model.)

2 Sheets—Sheet 1.

G. W. TANNER.

CIGAR MACHINE.

No. 324,185.

Patented Aug. 11, 1885.

Fig. 1.

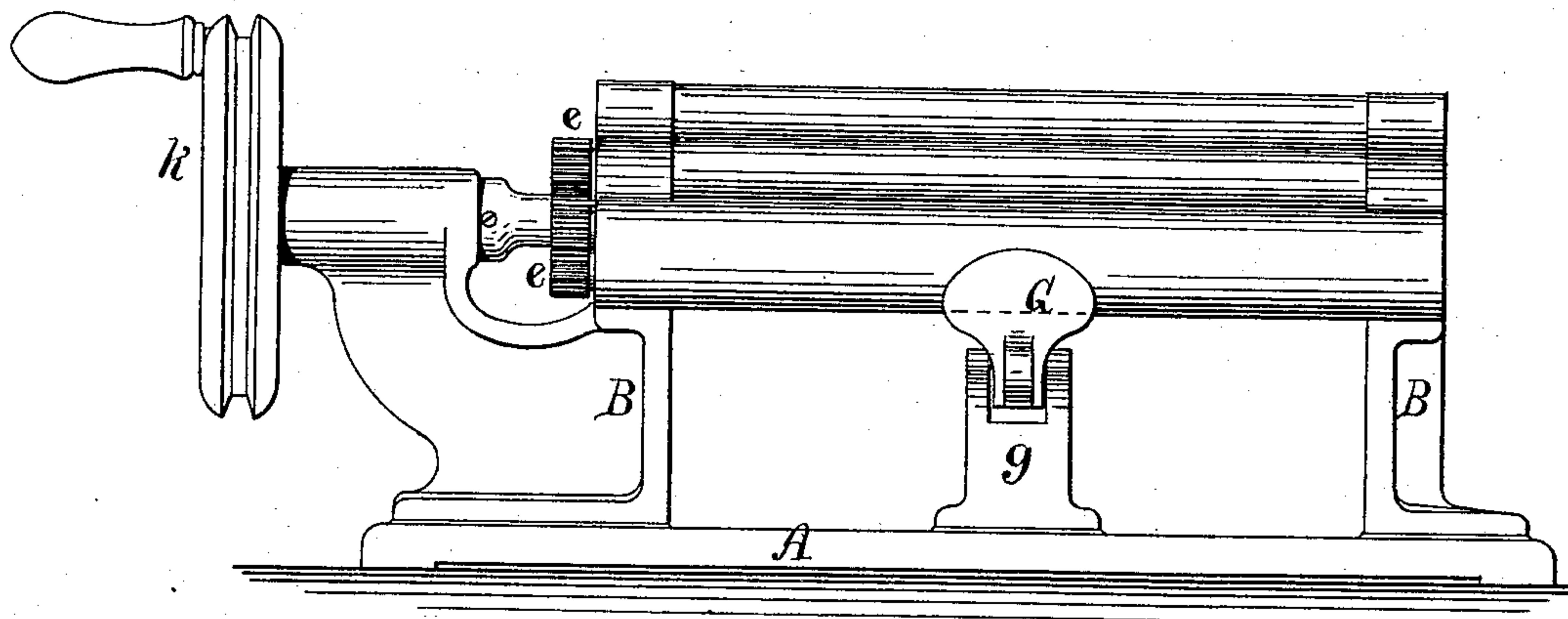


Fig. 2.

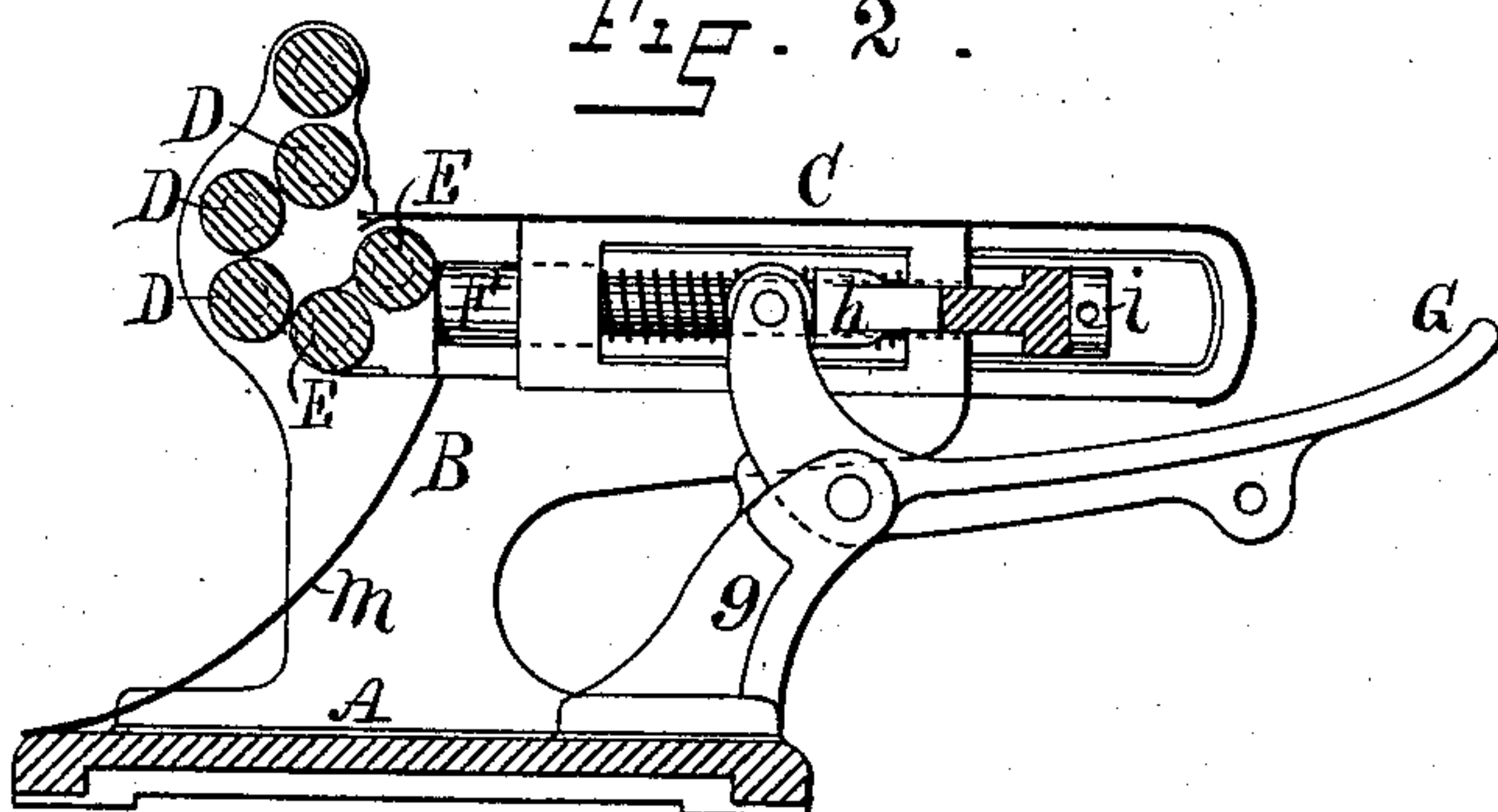
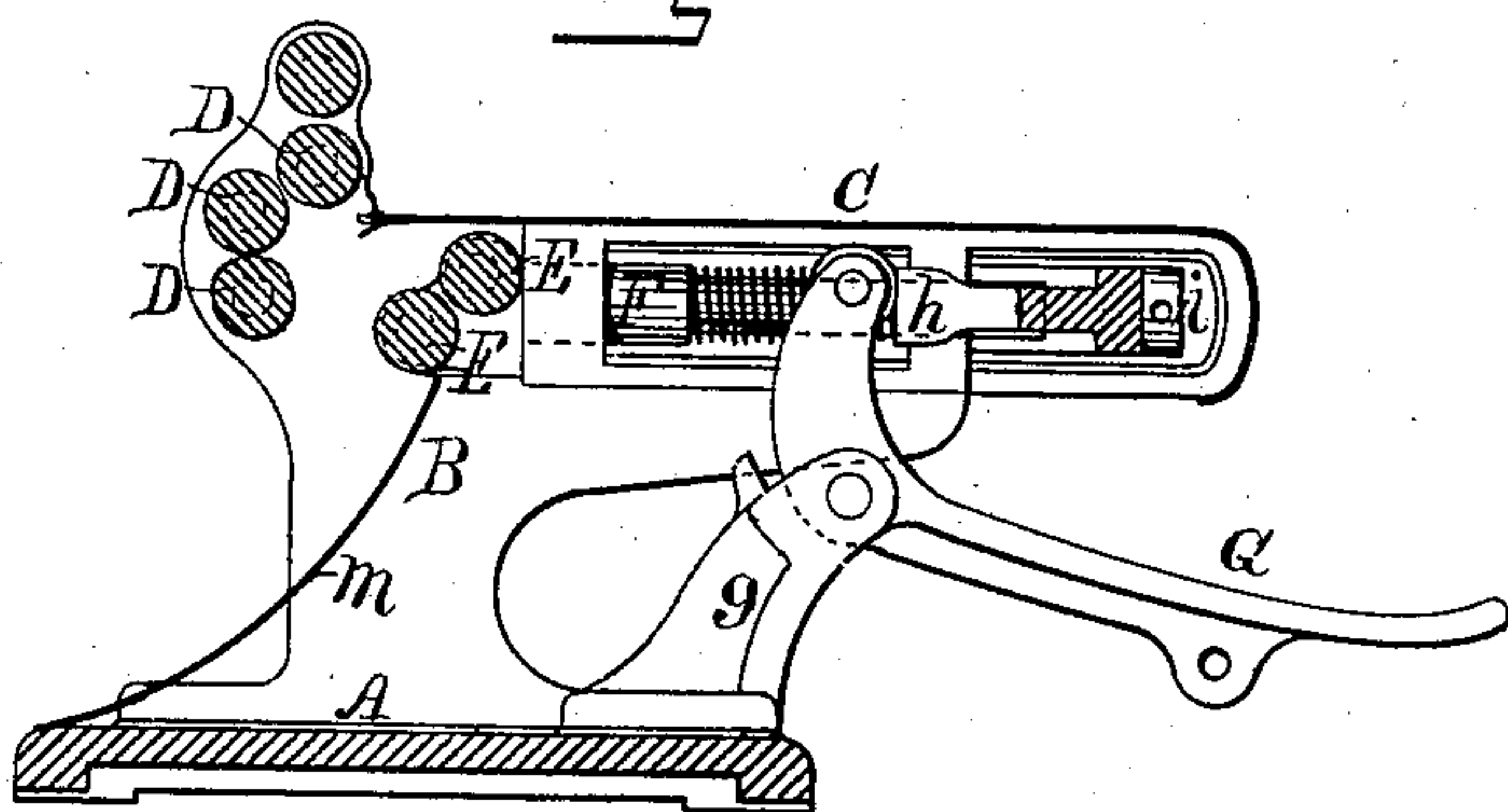


Fig. 3.



WITNESSES:

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INVENTOR.

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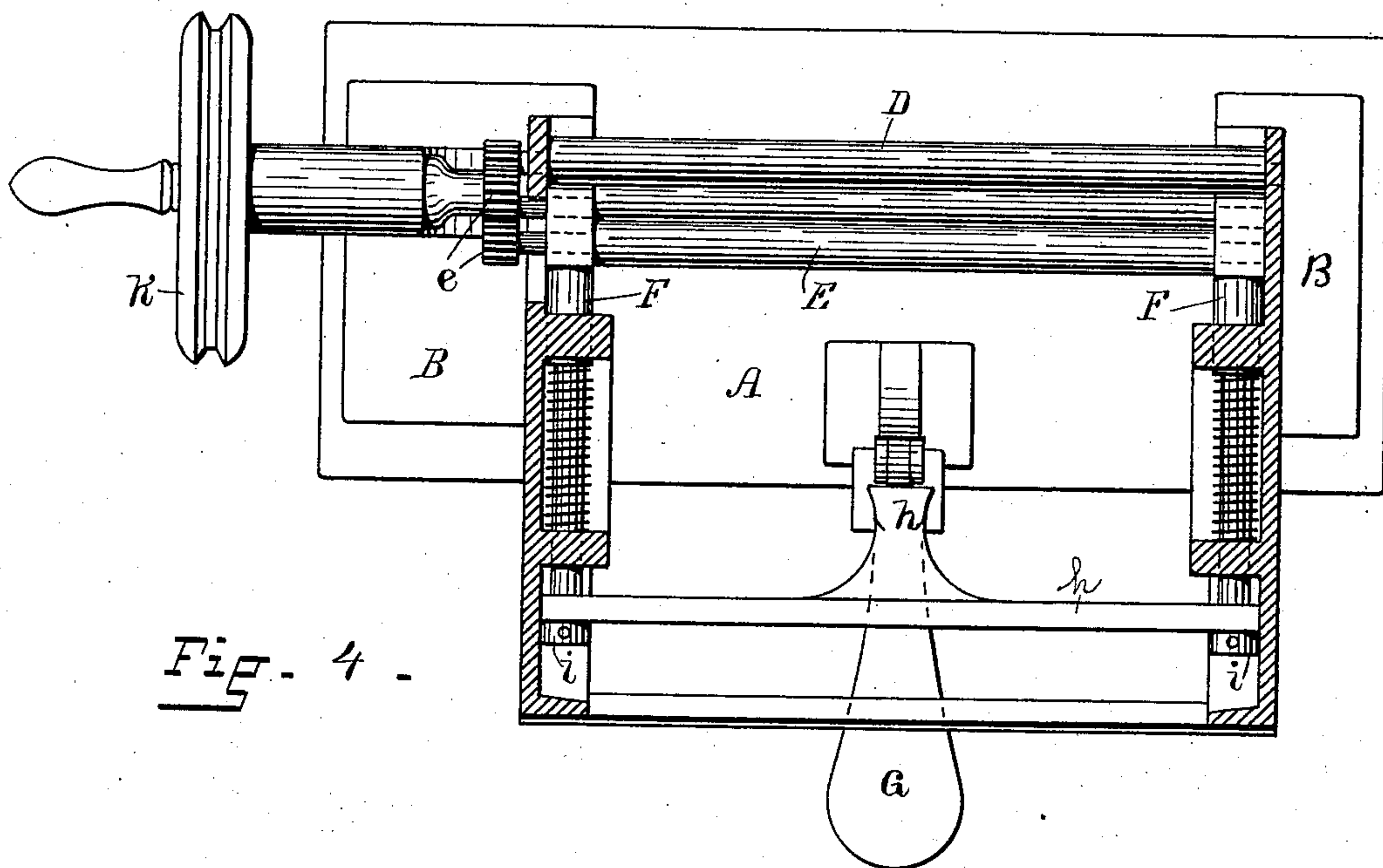


Fig. 4.

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UNITED STATES PATENT OFFICE.

GEORGE W. TANNER, OF PROVIDENCE, RHODE ISLAND.

CIGAR-MACHINE.

SPECIFICATION forming part of Letters Patent No. 324,185, dated August 11, 1885.

Application filed September 24, 1883. (No model.)

To all whom it may concern:

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

10 This invention has reference to machines for rolling the filling of cigars preparatory to inclosing the same in the wrappers.

15 The object of this invention is to so construct a machine for rolling cigars that by a simple manipulation the rolled cigar or the filling for the cigar can be discharged.

20 The invention consists in the peculiar and novel construction of a frame in which three rollers are secured, and in which a slide provided with two rollers is moved in and out under a table, as will be more fully set forth hereinafter.

25 Figure 1 is a front view of my improved cigar-machine. Fig. 2 is a sectional view of the same, showing the sliding rollers in place; and Fig. 3 is a sectional view showing the sliding rollers drawn out to discharge the rolled cigar. Fig. 4 is a plan view of my improved machine on a line just below the machine-table, showing the slides, stems, springs, and nuts herein described.

In the drawings, A is the base.

B B are two standards, in which the three rollers D D D are journaled.

35 C is a table, preferably made of sheet metal. E E are two rollers journaled in a sliding block secured to the stems F, (one in each standard B.) A spiral spring surrounds each stem F and bears against the end of the standards B, so that the slide and the rollers E E are held normally in the closed position, as shown in Fig. 2. The lowermost rolls, D and E, constitute the bed of the mold, which is formed by the entire number of fixed and movable rolls.

45 G is a lever pivotally secured in the bracket g. The short arm of the lever G is provided with a roller, which bears against the cross-frame h, which latter extends from one side standard to the other, the two stems F F being secured to the cross-frame h by the nuts i i.

50 k is a crank-wheel, or it may be a band-

wheel, by which the machine is operated, suitable gears, e e, connecting the crank or driving wheel with the rollers, the rolls being fluted and revolved so as to give the top roll a combining motion toward the opening; or, in other words, said roll draws in the stock from off the table and carries it into the space between the rolls.

M is a chute made of sheet metal, on which 60 the cigars fall and are conducted to a box or other receptacle when the rollers E E are drawn back.

The operation of this machine is as follows: A quantity of tobacco is placed on the table 65 C, which projects slightly over the rollers E E, and, the machine being in motion, the tobacco is entered between the rollers, which roll the same into a compact cylinder or bunch in the space inclosed by the five rollers, and when 70 sufficiently rolled the lever G is depressed, thus drawing the rollers E E outward and discharging the rolled cylinder or bunch, as is shown in Fig. 3. As soon as the lever G is released the spiral springs surrounding the 75 stems F F will push the rolls E E into place and another cylinder or bunch can be rolled. When a bunch only is desired to be formed and bound, no other wrapper than the binder is required. 80

The construction of this machine enables the operator to apply wrappers cut in a square form to the revolving bunch, thereby making a cheroot that can be lighted at either end; or a wrapper may be cut in a narrow strip form 85 and applied spirally to the bunch, as the wrappers of headed cigars are applied.

This machine can be continuously driven, is easily charged and discharged, will roll a perfect and compact cylinder, and adjust itself 90 to the quantity of tobacco used, as the rolls E E will yield to any extra quantity, being held in place by the spiral springs surrounding the stems F F. The table C forms a convenient place for cutting and arranging the tobacco, as 95 well as for feeding the machine. The lever G may be connected with a foot-treadle and operated by the foot of the operator, so that both hands may be used continuously.

By virtue of the construction and arrange- 100 ment of parts above described the machine is rendered extremely simple, compact, and du-

nable, while its operation is very efficient and convenient to the operator. The tobacco is fed directly from the table to the rolls and escapes therefrom by virtue of its own weight as soon as the bed of the mold is opened.

I am aware that movable and fixed rolls and operating-levers have been employed in this class of machines, and that such machines have been provided with tables for conveying the tobacco to the forming-rolls. Such previous machines are not only complicated, but necessitate too much handling of the tobacco.

In my machine the tobacco has to stand very little handling, as it is drawn into and discharged solely by the machine itself.

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

1. The combination, with a frame carrying a table and a series of fixed rolls, of a series of movable rolls mounted upon a slide working beneath said table, the lower movable and

fixed rolls constituting the bed of the mold, substantially as set forth.

2. The combination, with a frame carrying a table and a series of fixed rolls, of a series of movable rolls mounted upon a slide working beneath said table, the said table extending beneath the upper fixed roll, and the lower fixed and movable rolls constituting the bed of the mold, substantially as specified.

3. The combination, with the base A, the standards B B, the table C, and the fixed rollers D, of the sliding rollers E, the stems F, the springs, the cross-frame h, mounted beneath the table, and the lever G, bearing against the cross-frame and drawing the rollers outward, substantially as described.

GEORGE W. TANNER.

Witnesses:

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