

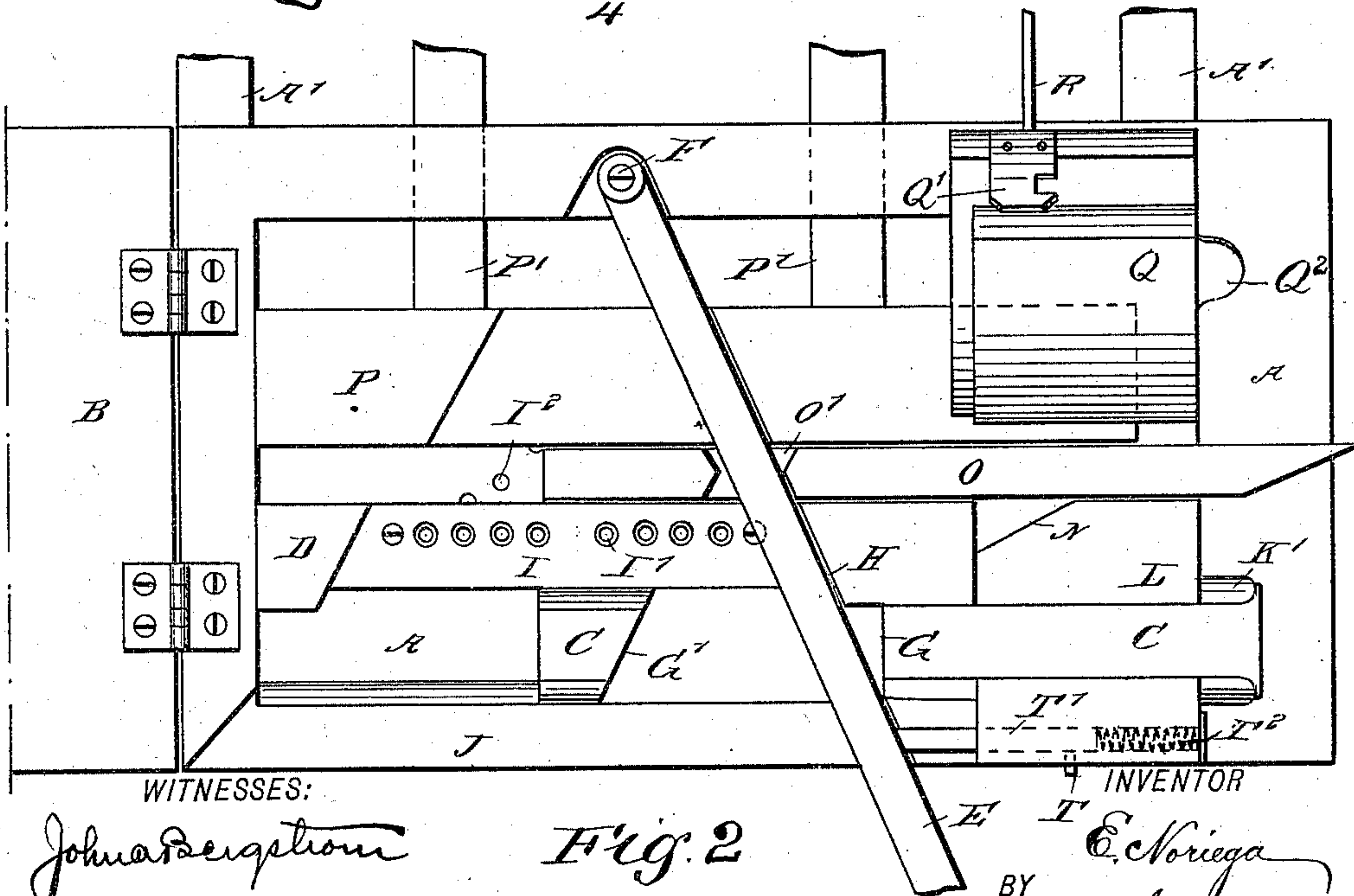
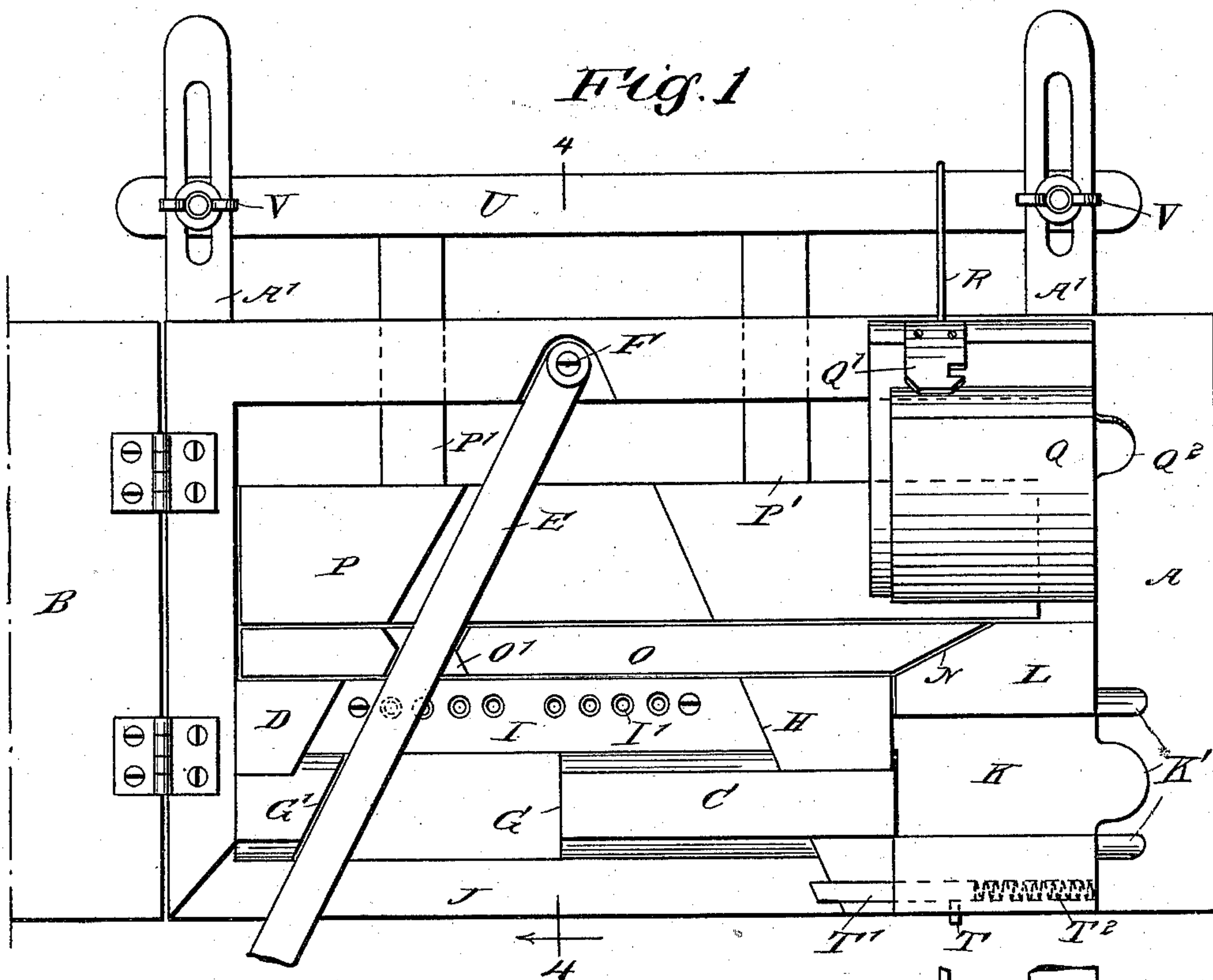
(No Model.)

2 Sheets—Sheet 1.

E. NORIEGA.
MACHINE FOR PACKING CIGARETTES.

No. 544,926.

Patented Aug. 20, 1895.



WITNESSES:

John Ferguson
John Loka

Fig. 2

INVENTOR

E. Noriega
BY *Munn & Co.*
ATTORNEYS.

(No Model.)

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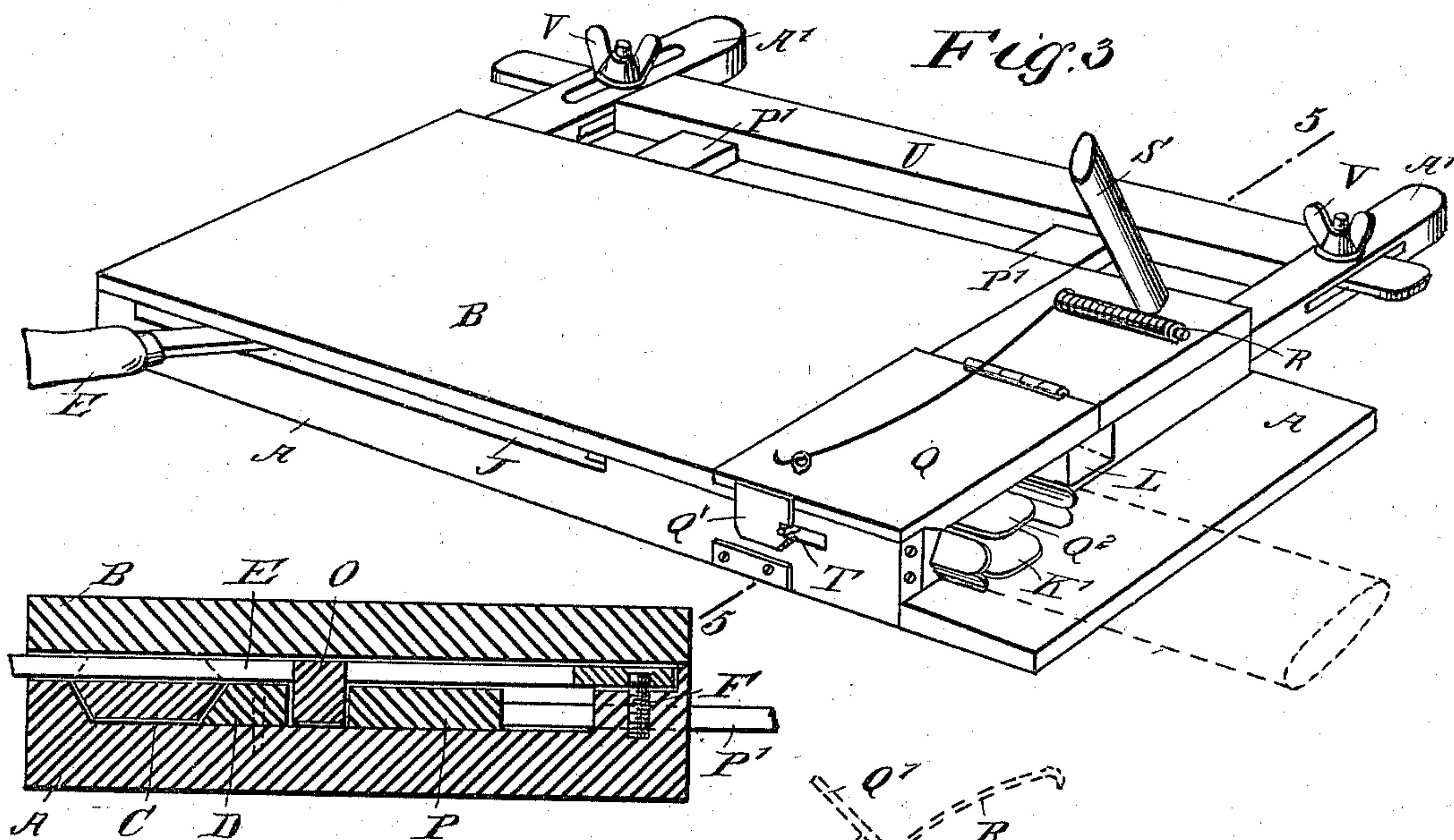


Fig. 4

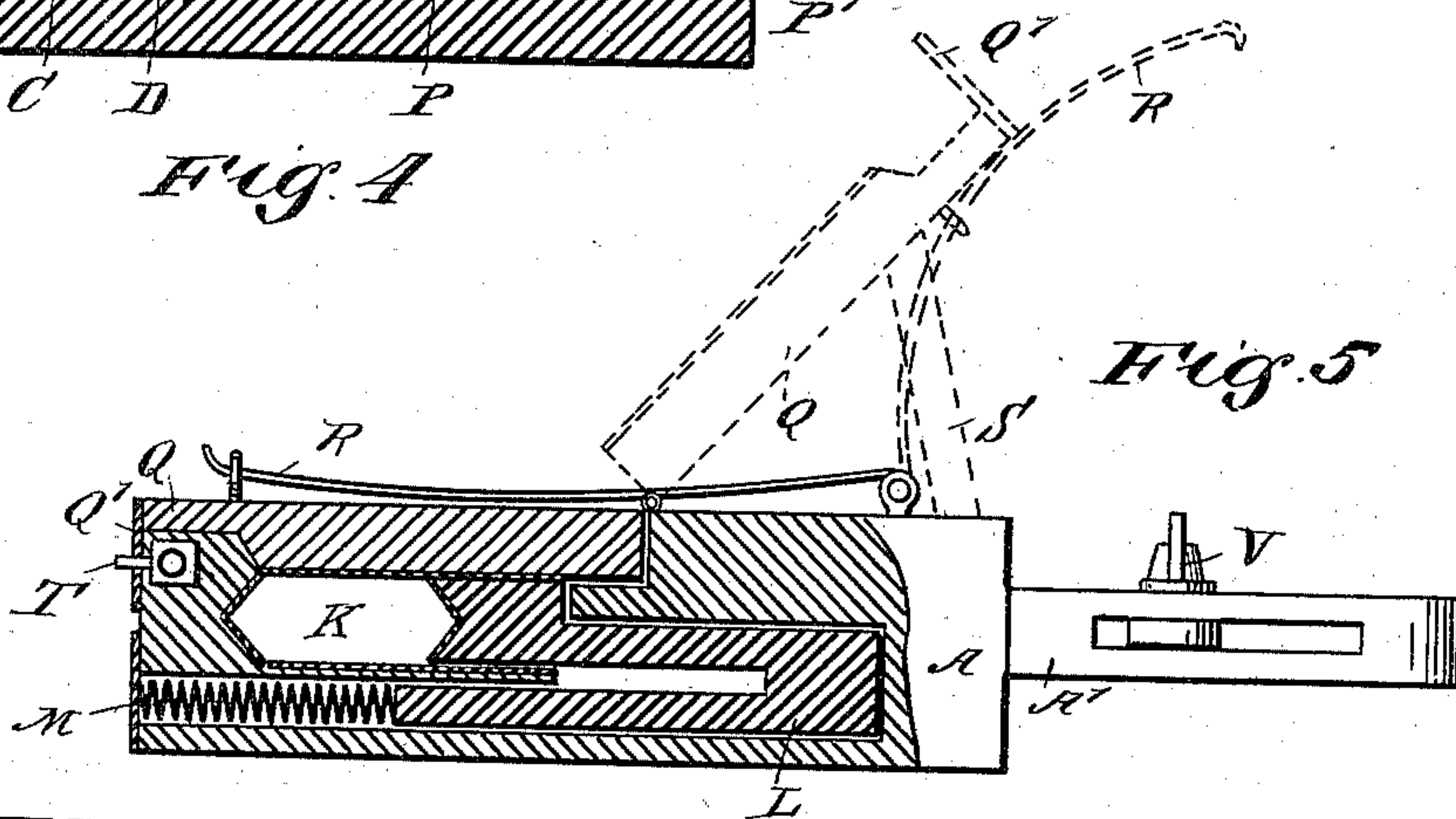


Fig. 5

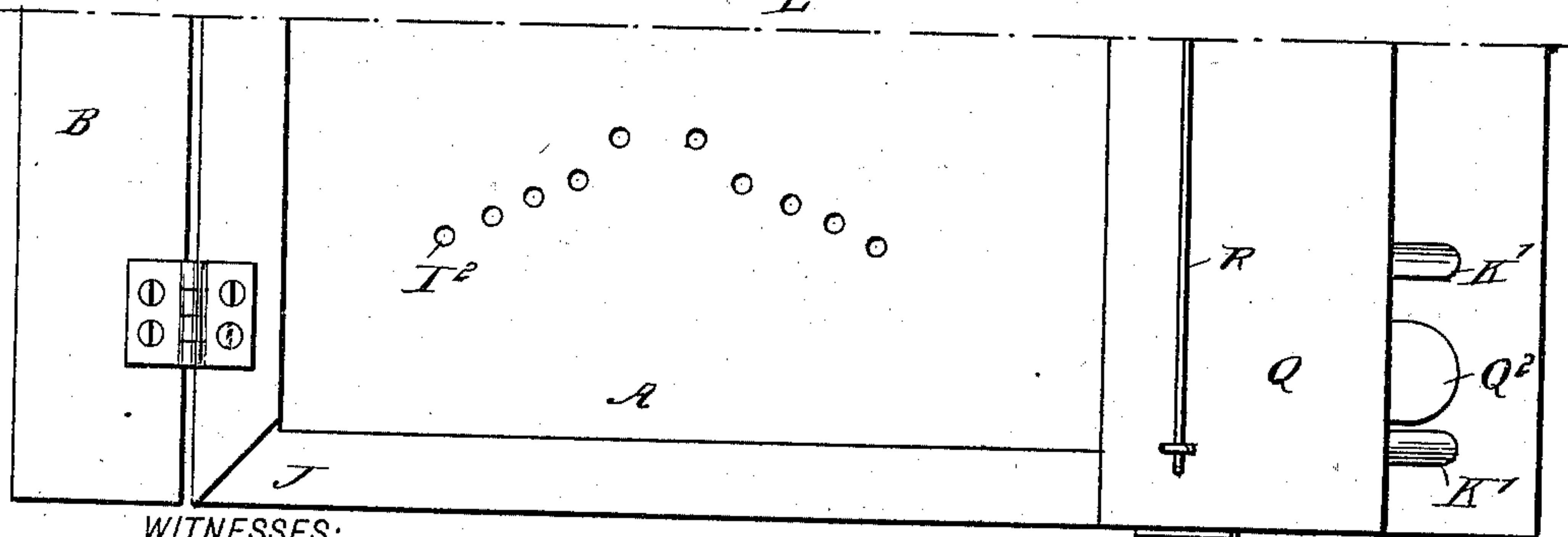


Fig. 6

WITNESSES:

John Bergstrom
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INVENTOR
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UNITED STATES PATENT OFFICE.

ELOY NORIEGA, OF MEXICO, MEXICO.

MACHINE FOR PACKING CIGARETTES.

SPECIFICATION forming part of Letters Patent No. 544,926, dated August 20, 1895.

Application filed March 2, 1895. Serial No. 540,341. (No model.)

To all whom it may concern:

Be it known that I, ELOY NORIEGA, a subject of the King of Spain, residing in the city of Mexico, Mexico, have invented a new and Improved Machine for Packing Cigarettes, of which the following is a full, clear, and exact description.

The invention relates to machines for packing cigarettes, the main object being to provide a construction whereby the machine will be readily adjustable to pack different numbers of cigarettes.

The invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the views.

Figure 1 is a plan of the machine with the lid open and the cigarette-receptacle in position to receive the cigarettes. Fig. 2 is a similar view of the machine after it has been operated to discharge the cigarettes from the said receptacle into a box. Fig. 3 is a perspective view of the machine. Fig. 4 is a vertical section on the line 4 4 in Fig. 1. Fig. 5 is a vertical section on the line 5 5 of Fig. 3, and Fig. 6 is a broken plan view of the bottom of the machine with certain parts removed.

The machine comprises a suitable base A, recessed to form a box, to which is hinged a lid B. At the front end of the box is a slide-way for the plunger C, the said slideway being partly formed in the front wall of the box, (see Figs. 1, 2, and 4,) while the other part of the slideway is produced on a cross-bar D, the plunger and the cross-bar being recessed in their upper faces to allow for the passage of an operating-lever E, which is pivoted at F to the rear of the box. Where the recessed and unrecessed portions of the plunger meet shoulders G G' are produced, against which the lever E is adapted to abut, and in this manner the plunger will be reciprocated by an oscillating movement of the lever. The shoulder H at the end of the recessed portion I of the bar D forms a stop to limit the movement of the lever E in the position shown in Fig. 2. The front of the box is also recessed, as shown at J.

At the right-hand end of the plunger C, when the latter is in its normal position, (illustrated in Fig. 1,) is located a cigarette-receptacle K, the front wall of which is a continuation of the slideway in the front of the casing, while the rear portion of the cigarette-receptacle is constituted by a block L, which has guided movement toward the front or rear of the casing, and has a rearward pressure exerted upon it by a spring M. (See Fig. 5.) The block L has an inclined shoulder N, which is adapted to be engaged by a wedge at the right-hand end of a sliding bar O, which is operated by the movement of the lever E, the said lever engaging a recess O' in the said bar, or being otherwise connected to it. The bar O slides between the bar D and another bar P, which is adjustable, as will be described presently, but is normally rigid within the casing.

The cigarette-receptacle K is provided with projections K', over which a paper bag may be placed, as indicated in Fig. 3. The receptacle is provided with a separate lid Q, adapted to be opened by means of a spring R, a stop S being provided to limit the movement of the lid. The front end of the lid carries a catch Q', adapted to be engaged by a pin T, which is secured to a slide T', actuated by a spring T², and mounted to move in the same direction as the plunger C. The left-hand end of the slide T' projects into the recess J, so as to be within the path of travel of the lever E.

The bars D and P are adjusted in the following manner: The bar D is provided within the recess I with a series of apertures I', and in the bottom of the casing are produced corresponding apertures I², the said apertures being arranged in pairs, each pair being at a different distance from the front of the casing to the other parts and a distance between the two apertures I² of one pair corresponding to the distance between two of the apertures I'. Thus, in Figs. 1 and 2, the bar D is illustrated as secured by means of two screws passing through the outermost apertures I' and also through the outermost apertures I², it being understood that this is the lowest position that can be given to the bar D. By removing the fastening-screws and sliding the bar D rearward to bring another pair of apertures I' into register with the corresponding pair of

apertures I² the slideway for the plunger C can be made wider, it being understood that the plungers are exchangeable, so that plungers of different width are used for each position of the bar D.

It is intended to produce adjacent to each of the apertures I' a numeral which will indicate how many cigarettes the cigarette-receptacle K will take when the fastening-screws are inserted in these apertures.

The cross-bar P is provided with rearwardly-extending arms P', mounted to slide in the rear portion of the casing and connected by means of a cross-bar U, the ends of which have guided movement in extensions A' from the casing, and screws and wing-nuts V are provided to secure the cross-bar U in position after attachment. It will be understood that after adjusting the cross-bar D the bar P will also be arranged in such a manner as to afford proper guidance for the wedge-bar O.

The operation of the machine is as follows: The parts being in the position shown in Fig. 1, with the lid Q open and the plunger C outside of the cigarette-receptacle K, the cigarettes are inserted by hand into the said receptacle, the lid Q is closed, and a suitable bag is placed over the projections K' and a projection Q² on the lid, the spring-pressed pin T engaging with the catch Q' and holding the lid in a closed position. The lever E is then moved toward the right, and by this movement will first actuate the sliding bar O, thereby forcing the spring-pressed block forward (see Fig. 2) until the said block is substantially flush with the slideway for the plunger C. Thereupon the lever E will engage the right-hand shoulder G on the plunger C and operate the plunger to force the cigarettes out of the receptacle K into the bag. When the plunger reaches its extreme position, it collides with the left-hand end of the slide T', thereby forcing the pin T out of engagement with the catch Q' and allowing the spring R to open the lid Q. (See Fig. 2.) The plunger is then moved back to its forward position, the spring M returning the block L, and the receptacle is then ready to be filled again.

It will be understood that the lever E may be operated manually or by means of machinery.

I do not limit myself to the exact construction shown in the drawings, but desire it to be understood that various modifications may be made without departing from the spirit of my invention.

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

1. The combination of a casing having a slide-way, and a receptacle in a continuation of the slide-way, one of the walls of the slide-way being mounted to slide bodily toward and from the other wall thereof in such a manner that the movable wall remains parallel to its initial position during its sliding

movement, a plunger held to reciprocate in the said slide-way and adapted to enter the said receptacle means for operating the plunger, and means for sliding the movable wall of the receptacle toward the other wall thereof, substantially as described.

2. The combination of the casing having a slide-way and a receptacle, the said receptacle having a spring-controlled wall which is movable toward and from the opposite wall of the receptacle, a plunger held to reciprocate in the slide-way and receptacle, a slide engaging the spring pressed wall of the receptacle and constructed to move the said wall toward the other wall of the receptacle, and means for operating the plunger and the slide, substantially as described.

3. The combination of the casing having part of a slide-way for a plunger, a cross-bar having the other part of the said slide-way, made adjustable toward and from the first named part of the slide-way so that plungers of different widths may be received in the said slide-way, a plunger-operating mechanism, and a receptacle at one end of the said slide-way, the said receptacle having a movable wall adjacent to the adjustable cross-bar, substantially as described.

4. The combination, with the casing having a part of the slide-way, the adjustable cross-bar having the other part of the slide-way for the plunger, a receptacle located at one end of the said slide-way and provided with the movable wall adjacent to the said cross-bar, another adjustable cross-bar in the rear of the first named bar, a slide held to move between the two cross-bars and engaging the movable wall of the receptacle, and means for operating the said slide and plunger, substantially as described.

5. In a machine of the class described, a casing having an adjustable slide-way for the plunger, one part of the said slide-way being produced in the body of the casing, the said body also having a series of apertures arranged in pairs at different distances from the said slide-way, and a cross-bar having the other part of the slide-way and provided with apertures whose distances and positions correspond to those of the apertures in the body of the casing, substantially as described.

6. The combination of the casing having a slide-way, a plunger held to move therein, a receptacle at one end of the slide-way, a spring-pressed lid for closing said receptacle, a catch on the lid, a sliding pin on the casing to engage the said catch, means for operating the plunger, and a slide connected to the pin and projecting into the path of travel of the said operating means to open the lid when the plunger is in its extreme position, substantially as described.

ELOY NORIEGA.

Witnesses:

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WILLIAM J. CRITTENDEN.