

S. SCHOLFIELD.

Improvement in Cigar-Machines.

No. 131,567.

Patented Sep. 24, 1872.

Fig. 1.

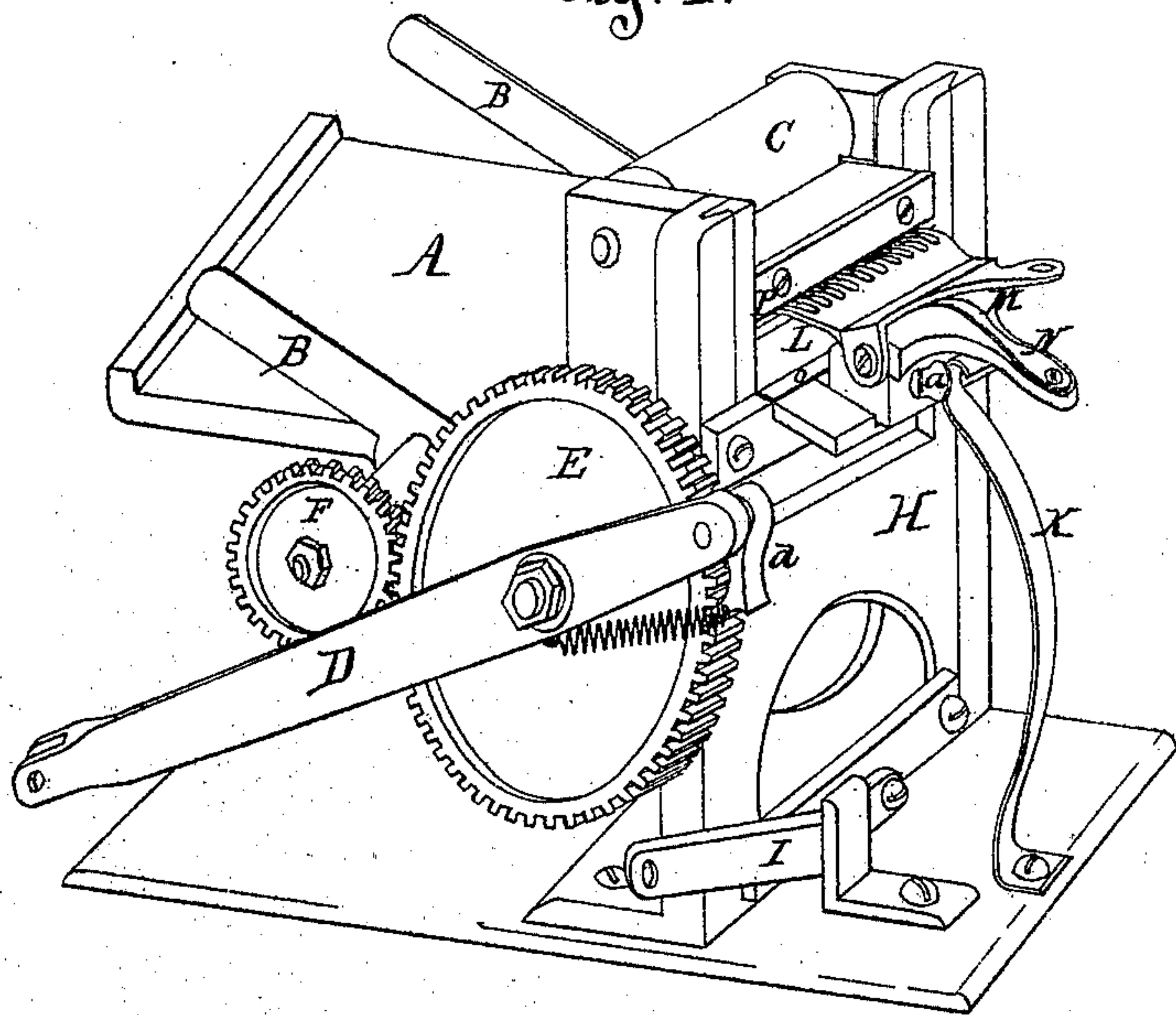
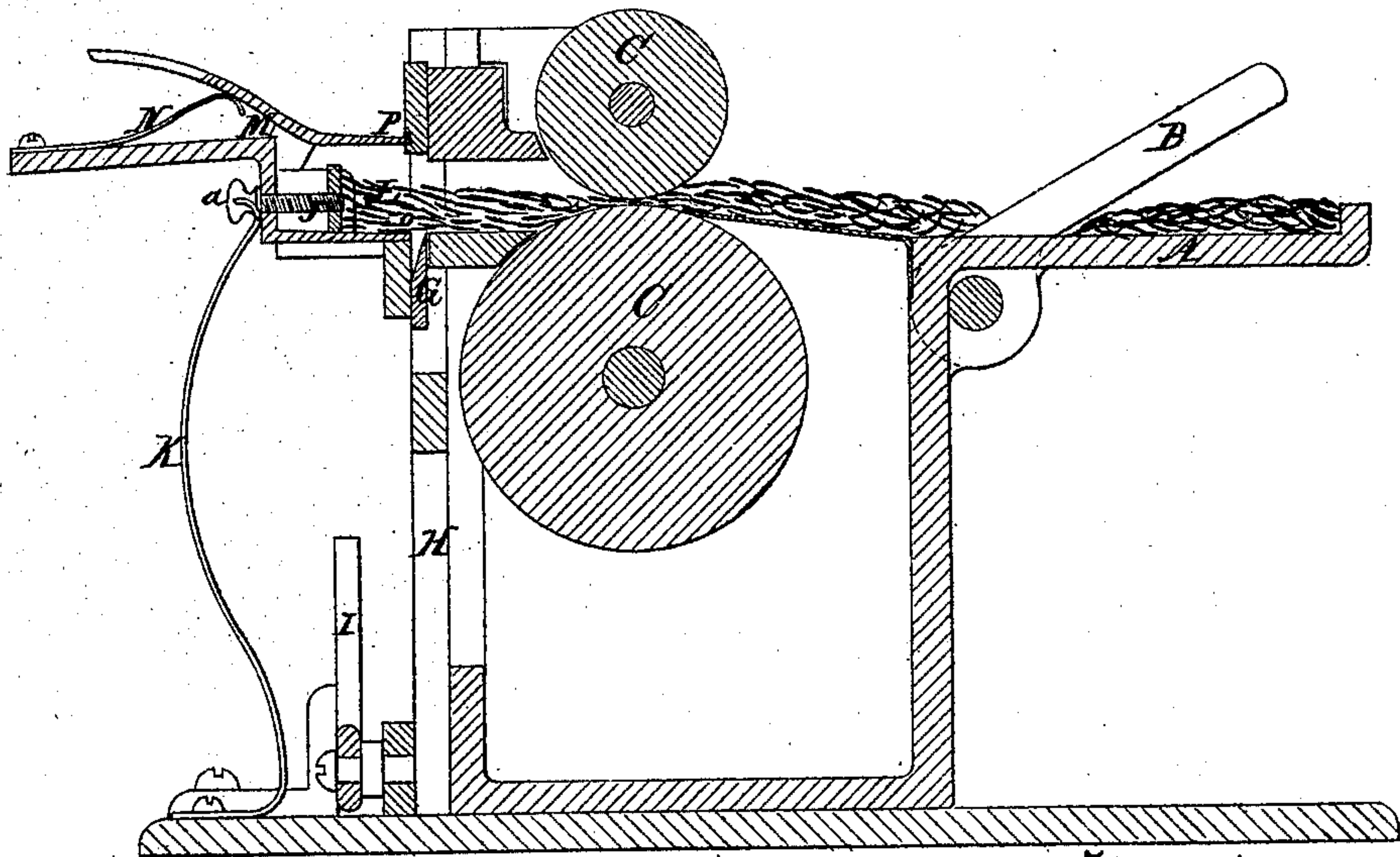


Fig. 2.



Witnesses.

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SOCRATES SCHOLFIELD, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN CIGAR-MACHINES.

Specification forming part of Letters Patent No. **131,567**, dated September 24, 1872; antedated September 21, 1872.

To all whom it may concern:

Be it known that I, SOCRATES SCHOLFIELD, of Providence, in the county of Providence and State of Rhode Island, have invented an improved mode of determining the proper size of cigar-filler bunches by machinery, of which the following is a specification:

The nature of my invention consists in a machine for sizing cigar-fillers to be operated by hand, and in which a loose detachable sizing-chamber is placed, in combination with geared feeding-rolls, and a knife for cutting off the required amount of tobacco.

Figure 1 is a perspective view of the machine. Fig. 2 is a sectional side view of the same.

A is an apron, upon which the tobacco is to be first placed. B B are shears for trimming the ends of the fillers to the required length. C C are two geared feed-rolls operated by means of the lever D, upon which is pivoted the ratchet-dog *d* engaging with the ratchet-wheel E. The shears B B may have either a reciprocating or a rotary motion; and in the latter case they may be connected with the gear E by means of the gear F, as shown. The knife G is secured to the slide H and operated by means of the lever I. The tobacco, after passing the rolls C C, gradually fills the chamber L, into which it enters, and expands against the force of the spring K. When the tobacco has been fed into the chamber L in sufficient quantity to overcome the tension of the opposing spring it will produce a movement of such chamber, which may be indicated in any suitable manner, as, by means of a pointer, or by striking a bell preparatory to the action of the knife G by the operator,

in order that the proper quantity of tobacco may be cut off and removed from the machine. The chamber L, shown in the drawing, is made detachable, and is arranged with an upper and lower jaw hinged at the points M M. The spring N presses against the upper jaw to close the same upon the chamber. The fillers, when cut off by the action of the knife, are firmly held by the springing together of the jaws, and may then be conveyed by hand to the point desired and emptied from the chamber. In placing this detachable chamber in the machine the lower jaw may be caught under the strip O, the upper jaw being also caught in the groove P, with the spring K pressing against the rear to hold it in place. Now, whenever the chamber is forced back by the resulting pressure, the upper jaw will pass out of the groove P and snap down upon the inclosed fillers, thus indicating the proper time for the action of the knife, or any other suitable mode of indicating the enlargement or movement of the chamber L may be used.

It will be readily seen that by this improved mode of sizing fillers the proper adjustment of the tension of the spring K will produce either a large or a small sized filler in the same chamber, since in one case it may be packed harder than in the other.

I claim as my invention—

The geared pressure-rolls C C, knife G, loose detachable chamber L, and spring K, operating substantially as described.

SOCRATES SCHOLFIELD.

Witnesses:

D. B. POTTER,
A. M. SCHOLFIELD.