

L. SCHOLFIELD.
Cigar Tuck Cutters.

No. 134,222.

Patented Dec. 24, 1872.

Fig. 1.

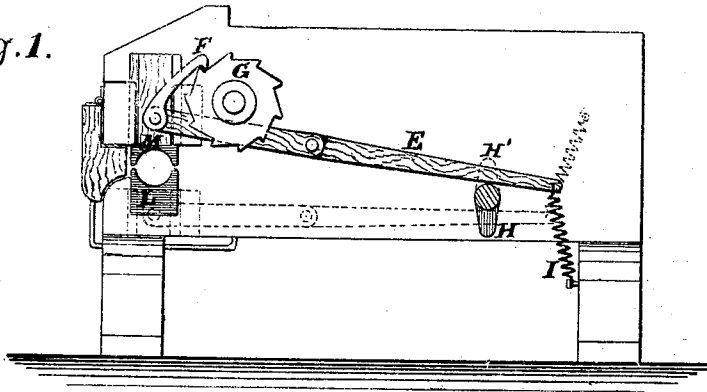


Fig. 2.

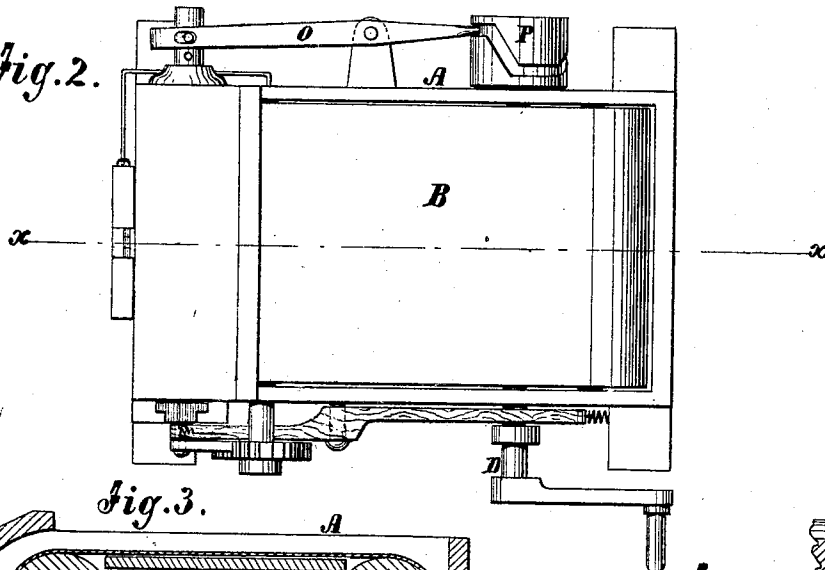


Fig. 3.

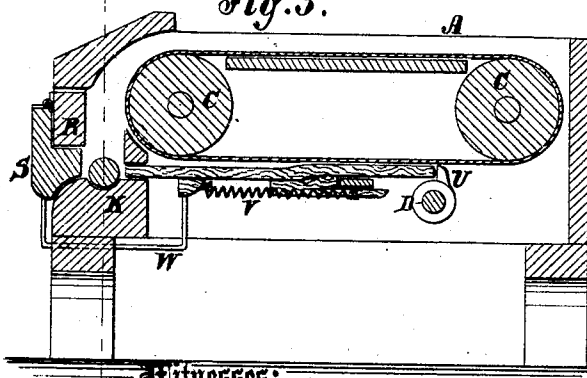
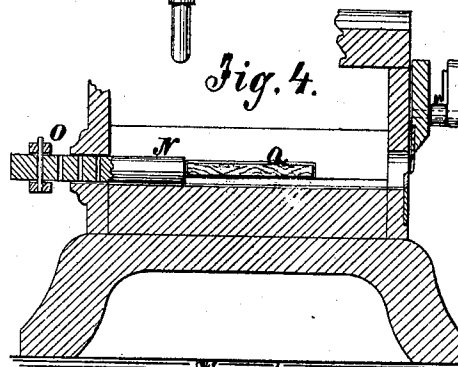


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

LE GRAND SCHOLFIELD, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO
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IMPROVEMENT IN CIGAR-TUCK CUTTERS.

Specification forming part of Letters Patent No. 134,222, dated December 24, 1872.

To all whom it may concern:

Be it known that I, LE GRAND SCHOLFIELD, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Cigar-Tuck Cutter, of which the following is a specification:

My invention consists of a machine for automatically feeding, adjusting, cutting, and discharging cigars, in which the cigars are placed on an intermittingly-acting endless carrier, and delivered by it into or upon a cutting-bed, when a plunger pushes them along the right distance for presenting the "tuck" ends to a pair of cutters, which cut off the said end, and there a discharger ejects them from the bed, the said discharger at the same time opening a discharge-passage by raising a movable side of the bed, used to prevent the cigars from bounding off when falling upon said bed, and closing it again ready for the next, all as will be hereinafter described.

Figure 1 is a side elevation of my improved machine. Fig. 2 is a plan view. Fig. 3 is a longitudinal sectional elevation taken on the line *x x* of Fig. 2. Fig. 4 is a transverse section taken on the line *y y* of Fig. 3.

Similar letters of reference indicate corresponding parts.

A represents a case, open at the top, with an endless belt-carrier, B, running from one end to the other on the rollers C. This belt is caused to move intermittingly about the distance of the breadth of a cigar toward the left-hand end one movement at each revolution of a crank-shaft, D, by the lever E, pawl F, ratchet-wheel G, and cam H. Said lever and pawl are retracted by the spring I. The cigars are placed crosswise on this belt, which is about as wide as the length of the cigars, and at each movement one is delivered on the bed K, with its "tuck" end in front of the cutters L and M. As soon as this takes place a pusher, N, comes against the opposite end and pushes the "tuck" end as far between the cutters as the length to be cut off. This pusher is connected to the end of the lever O, which is worked by the cam P on the shaft D, and it is arranged adjustably in this connection so as to be shifted as may be required for long or short cigars. When the cigar has

been so adjusted the cutter M comes down and cuts off the end; or in case the machine is so arranged—which may be, and which I prefer—the cutter L will move up simultaneously with the down movement of the cutter M; then the ejector Q comes forward against the cigar and pushes it off the bed, at the same time opening the passage R by swinging the door S outward.

The cutter M is worked by the pawl-lever E, and if cutter L is worked it will be attached to a lever, T, shown dotted, to be worked by a cam, H', on shaft D. The ejector Q is pushed forward by the tappet U on the shaft D and back by the spring V. This ejector is connected to the guard-door S by the rod W, and moves said door by positive action.

It is not absolutely essential, however, that the said guard-door and ejector be connected, for the door may be opened by the cigar pushed against it.

Instead of the endless carrier I may have a descending chute, down which the cigars will roll to the bed, with a separating apparatus of any kind adapted to let only one cigar fall on the bed at once.

I propose to have a socket in the end of the plunger to receive the end of the cigar in such manner that it will not be so liable to break it as it will if the end be flat.

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

1. The combination of an automatic feeding device for delivering the cigars on the cutting-bed, a pusher for adjusting them in a lengthwise direction, and a pair of cutters for cutting off the "tuck" ends, the said pusher being adjustable lengthwise, and either one or both of the cutters being movable, all substantially as specified.

2. The combination, with the cutting-bed, of the ejector and guard-door, substantially as specified.

3. The combination of lever E, cutter M, pawl F, and ratchet-wheel G, substantially as specified.

LE GRAND SCHOLFIELD.

Witnesses:

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