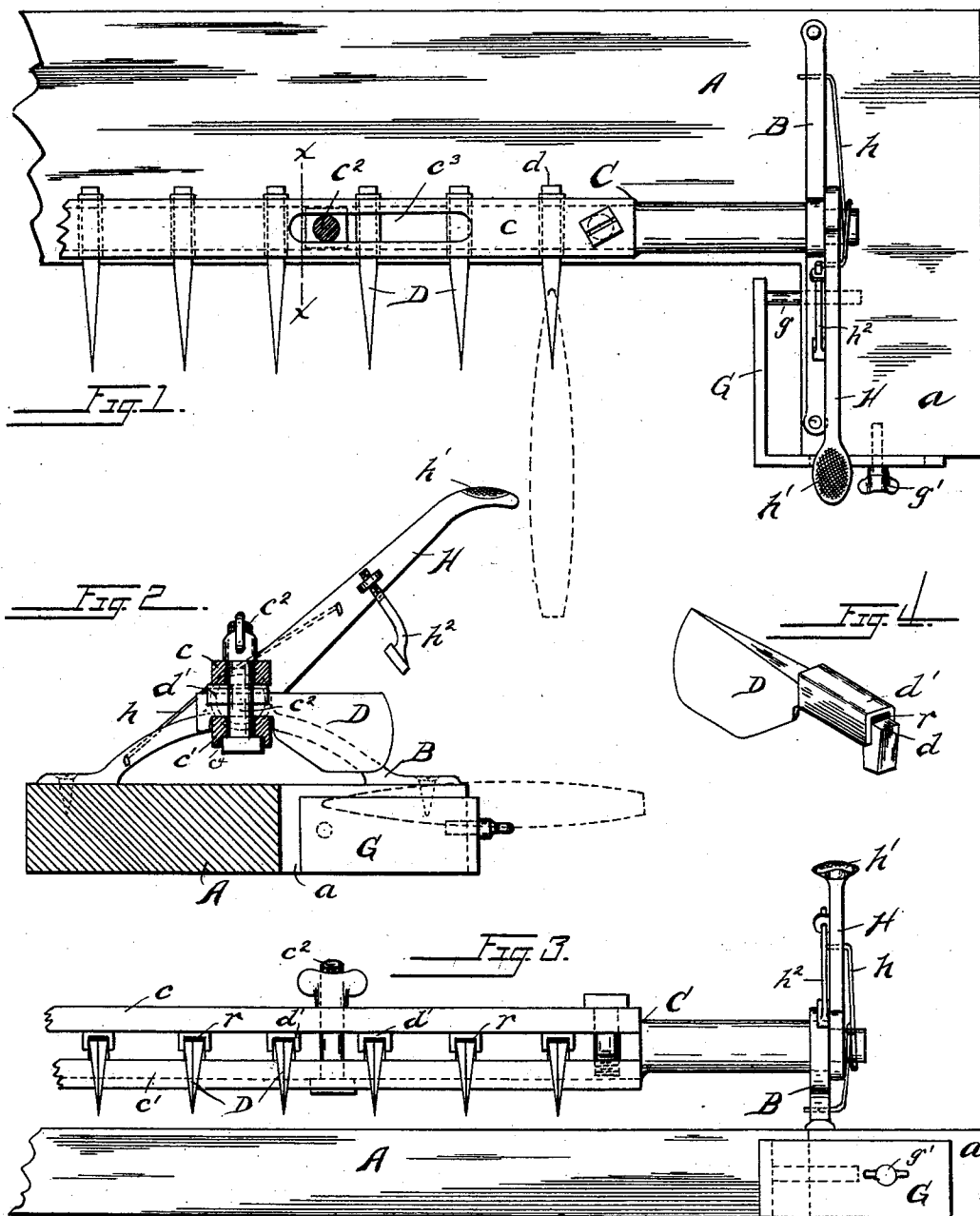


(No Model.)

J. G. MILLER & E. YEISER.
CIGAR BUNCH CUTTER.

No. 483,077.

Patented Sept. 20, 1892.



Witnesses

Edw. A. Kelly
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By their Attorney

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UNITED STATES PATENT OFFICE.

JOHN G. MILLER AND EDMUND YEISER, OF NEWMANSTOWN, PENNSYLVANIA.

CIGAR-BUNCH CUTTER.

SPECIFICATION forming part of Letters Patent No. 483,077, dated September 20, 1892.

Application filed December 9, 1891. Serial No. 414,494. (No model.)

To all whom it may concern:

Be it known that we, JOHN G. MILLER and EDMUND YEISER, citizens of the United States, residing at Newmanstown, in the State of Pennsylvania, have invented certain Improvements in Cigar-Bunch Cutters, of which the following is a specification.

This invention relates to improvements in machines for slitting the ends of cigar-bunches before they are incased in the finishing wrapper for the purpose of making them smoke more freely. Heretofore machines have been constructed for this purpose; but their construction has been more expensive and complicated and their work less satisfactory than is desirable. With our improved machine we accomplish the object aimed at in a very simple and satisfactory manner and in a much shorter time than can be done by hand.

The invention is fully described hereinafter in connection with the accompanying drawings, and is specifically pointed out in the claims.

Figure 1 is a plan view of one end of the machine. Fig. 2 is a section on line *x x*, Fig. 1. Fig. 3 is a front elevation of that portion of the machine shown in Fig. 1. Fig. 4 is a perspective view of one of the knives.

A represents the base-plate of the machine, to either end of which are journaled the ends of the oscillating knife holder or frame C. This knife-holder is formed in two parts *c* and *c'*, between which are held the shank ends *d* of the cutting-knives D by means of bolts *c²* and thumb-nuts thereon, said bolts being capable of longitudinal adjustment in slots *c³*, so as to permit the knives D to be shifted to any required position and spacing. To effect this, the thumb-nuts are merely loosened and the bolts *c²* are moved in the slots *c³* so as to bring them between two of the knives D. The heads of these bolts travel in a groove *c⁴* in the bottom of the lower plate *c'* of the knife-holder, and are thus prevented from turning. It will be seen that the knives can be easily arranged to suit press-blocks of the various sizes provided for cigars of different thicknesses.

To the journaled ends of the knife-holder are attached operating-handles H, and the holder is returned to its normal position by

means of springs *h*, which are coiled around the projecting end of the holder and have one end fixed to the supporting-stand B and the other to the handle H. In order to firmly secure the knives between the plates *c* and *c'* by means of as few clamping-bolts *c²* as possible and to insure a firm holding of each knife with comparatively light pressure, we provide a cap-piece *d'*, which fits over the shank *d* of each knife and incloses an elastic lining *r*, as of rubber, which yields sufficiently to cause a practically equal pressure upon each knife, notwithstanding slight differences in the thickness of the shanks, &c. The cigar-bunches are pressed in the press-blocks, as usual, and before taking them out to be wrapped the blocks are entered between the protruding ends *a* of the machine-base A, which are provided with guides G, which are adjustable by means of dowel-pins *g* and set-screws *g'*, so as to bring the cigar-bunches in the blocks to their proper position under the knives, the latter being regulated to suit the distance between the cigar-bunches, as already described. The handle *h'* is pressed downward and the knife-holder C oscillates upon its bearings in the supporting-brackets B, causing the cutting-knives to descend upon the cigar-bunches under them with a sweeping rearward movement, which produces a clean smooth cut. Upon releasing the pressure upon the handle the springs *h* return the knives to their normal position and the machine is ready to operate on another series of bunches. The adjustable stop *h²* limits the downward swing of the knives by coming in contact with the bracket B.

Instead of forming the blades of the knives D integral with the shanks *d*, as shown, they may conveniently be formed separately from sheet-steel and removably secured thereto.

It is evident that other details of our machine may easily be modified to a considerable extent, and we do not, therefore, limit ourselves to the exact construction shown; but

What we claim is—

1. A machine for slitting cigar-bunches, having an oscillating frame with a series of knives secured thereto, substantially as described, in combination with means for holding the cigar-bunches below the center of the oscillating frame, whereby a sweeping rear-

ward cut is produced, substantially as set forth.

2. The combination of the fixed brackets B, the oscillating frame mounted therein and having knives adjustably secured thereto, the operating-handle H, stop h^2 , and spring h , all arranged upon the base-plate A, substantially as and for the purpose set forth.

3. The combination, with the oscillating knife-frame having knives adjustably secured thereto, of the base-plate A, having the portion below the oscillating knives cut away and the projecting end or ends a thereof provided with an adjustable guide-facing G, substantially as and for the purpose set forth.

4. The combination, with the oscillating frame comprising clamping-plates c and c' , of the knives having shanks d , adjustably located between said plates, and means, substantially

as described, for pressing said plates together to clamp the knives, all substantially as set forth.

5. The combination, with the oscillating frame comprising clamping-plates c and c' , of the knives having shanks d , adjustably located between said plates, caps d' upon said shanks inclosing an elastic lining r , and means, substantially as described, for pressing said plates together to clamp the knives, all substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN G. MILLER.
EDMUND YEISER.

Witnesses:

WM. J. STEWART,
ADAM L. OTTERBEIN.