

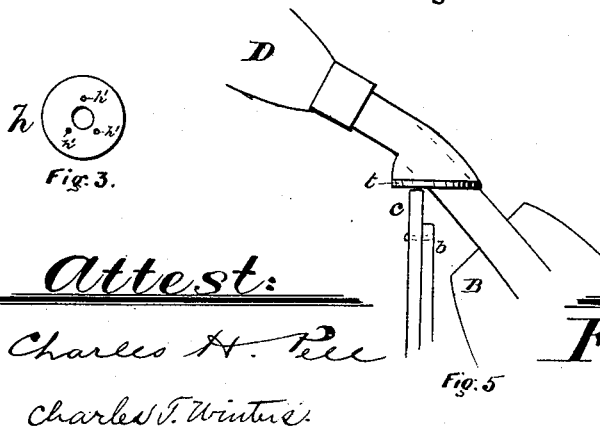
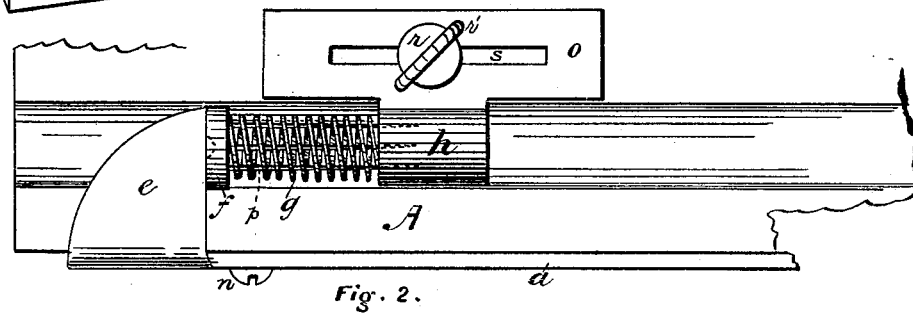
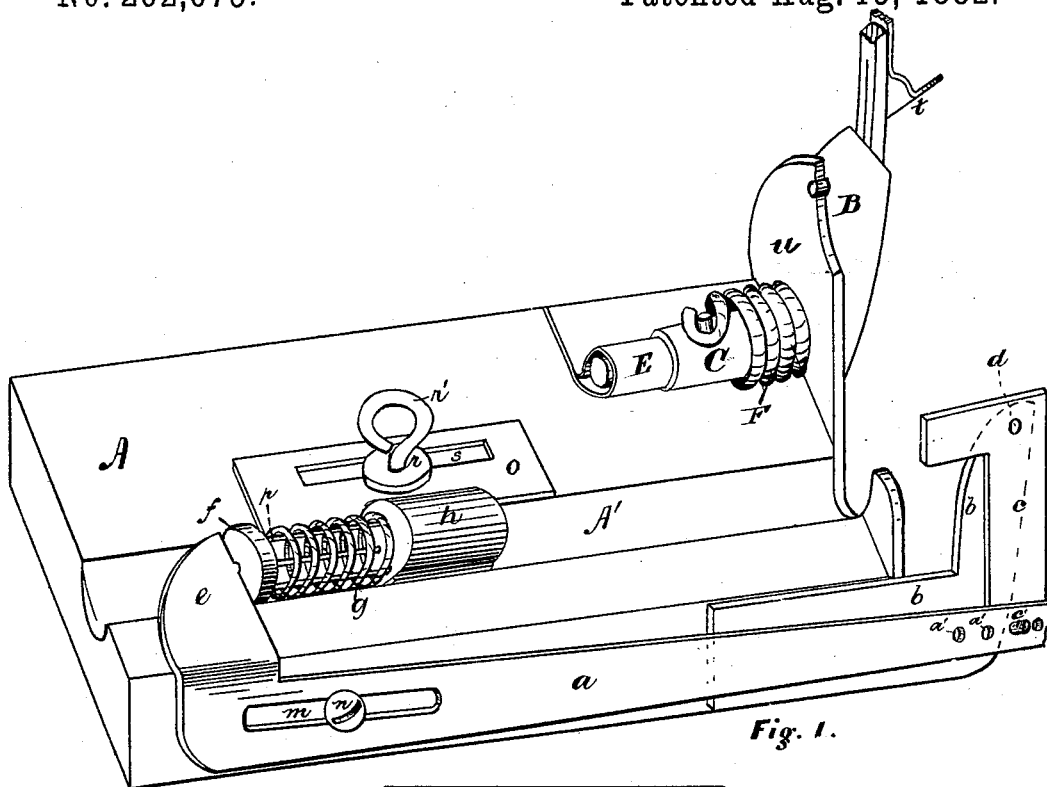
(No Model.)

F. JACOB.

COMBINED CIGAR PERFORATOR AND CUTTER.

No. 262,675.

Patented Aug. 15, 1882.



Attest:  
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# UNITED STATES PATENT OFFICE.

FREDRICK JACOB, OF NEWARK, NEW JERSEY.

## COMBINED CIGAR PERFORATOR AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 262,675, dated August 15, 1882.

Application filed March 17, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FREDRICK JACOB, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Cigar-Puncturers and Tuck-Cutters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The primary object of this invention is to facilitate the operation of piercing or puncturing the end of a cigar which is taken into the mouth, and overcome certain objections to the method heretofore practiced; and it consists in the peculiar construction, combination, and arrangement of mechanical devices by means of which these results are obtained, as will be hereinafter set forth, shown, and finally embodied in the claims.

In the accompanying drawings, in which similar letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a perspective view of a cigar cutter and puncturer embodying my improvements. Fig. 2 is a partial plan view, and Figs. 3, 4, and 5 are detail views.

A, Figs. 1 and 2, represents the bed; B and D, the cutting-knife and handle, respectively; C, the shaft which carries the same; *u* and E, the guide-plate and box, respectively, in which said shaft is journaled; and F, a spring which acts automatically to throw the knife back after it has cut off the end of a cigar, all of which may be constructed in the usual well-known forms.

In carrying out my invention I construct a thimble or cylinder, *h*, having a conical socket, *h'*, which is attached to a slotted-plate, *o*, and thereby to the bed A by means of a set-screw, *r'*, which passes through said slot *s* into the bed, which, in connection with the thimble, holds the cigar while it is being cut and punctured, all as indicated in Figs. 1 and 2.

The needles *p*, by means of which the end of a cigar is punctured, are secured to a head or disk, *f*, Figs. 1 and 2, and penetrate the thimble from the back through guide-holes *h'* there-

in, which intersect at the sides with said socket. Said head *f* engages with an elbow, *e*, formed upon a bar, *a*, by means of a nipple and socket with which said elbow and head respectively are provided; or the head and elbow may be rigidly connected, if preferred. The bar *a* is provided with a slot, *m*, and perforations *a'*, and is connected by means of a set-screw, *n*, and pin or pintle *c'* with the bed A and an elbow plate or lever, *e*, which latter is pivoted at *d* to a standard, *b*, attached to and projecting from the bed A, as indicated in Figs. 1 and 2. A spiral spring, *g*, encircles the needles and abuts against the head *f* and back of the thimble *h*, as indicated in the same figures.

The thimble is rendered adjustable longitudinally with relation to the bed by means of the set-screw *r'* and slot *s* in the plate *o*, as will be readily understood, to accommodate cigars of varying lengths. So, also, is the bar *a*, which actuates the needles for the same purpose by means of the set-screw *n*, the slot *m*, and the several perforations *a'* in said plate *a*, the latter being also loose in its bearings and subject to a backward and forward movement when in operation for puncturing a cigar. A shoulder, as *t*, should be formed upon the handle D to secure a more even bearing when the handle is brought down and the part or parts made to engage with the lever C.

The device, when connected with a cigar-cutter, as herein shown, is operated as follows, to wit: The cigar being laid in the groove in the bed with the end to be cut off under the knife, as usual, and the other end pressed snugly into the conical socket of the thimble *h*, the parts being relatively adjusted, as shown in Figs. 1 and 2, the handle of the knife is seized and the latter pressed down in the act of cutting off the end of the cigar, when just before the act of cutting is completed the shank of the handle or the shoulder *t* engages with the lever *e*, which, as the pressure upon the handle is continued, acts upon the bar or rod *a*, and by it upon the needles, which are thereby forced into the end of the cigar for the distance of three-quarters of an inch, (more or less, according as the machine may be set,) the downward motion of the handle being limited by means of a suitable stop, as will be understood. The pressure upon the handle being removed, the

needles are automatically withdrawn from the cigar by means of the spring *g*, as will be readily understood by reference to the drawings.

It may be remarked in this connection that the wrapper of a cigar is saved from injury when it is being punctured by means of the conical socket in the thimble, which for this purpose is designed to hug snugly and closely the end of a cigar when the operation is being performed.

It may also be observed that, as herein shown, the needles (the points of which may be round or angular) are so arranged as to penetrate the cigar in slightly-different directions, (though this is not absolutely essential,) so as to pierce diagonally any hard shreds of tobacco which may be in the cigar, and also to insure them against puncturing the wrapper below the point at which they enter the same, which results are secured by the arrangement of the guide-holes in the thimble, through which said needles have to pass. A central aperture passes entirely through the thimble, which aids in centering the cigar and saves the point thereof from injury. In the present instance I have arranged three needles, (two or more may be used,) so as to pierce the end of the cigar at three different points around the center, the latter not being disturbed, but left intact. In this way the draft through the cigar is facilitated and more evenly distributed, rendering it easy to be smoked, as will be obvious. This process obviates the necessity of cutting or biting off the end of the cigar, and is therefore much more desirable.

The two machines combined in one are more especially designed for manufacturers of cigars. The puncturing device may, however, be made separately and used in this way by retailers or consumers, in which case the guide-plate *u* and knife *B* may be substituted by a simple guard or head plate placed at the end of the groove on the bed to hold the cigar in position. The needles also may be operated by means of other equally-simple but equivalent mechanical devices, as will be evident, and as will readily occur to any skilled mechanic.

Having thus described my invention, what I claim, and wish to secure by Letters Patent, is—

1. A combined cigar-puncturer and tuck-cutter composed of the following elements, to wit: a suitable bed or support, as *A*, a cutting blade or knife, as *B*, having a reciprocating motion, a guide-plate, as *u*, a socketed cylinder or thimble, as *h*, provided with a central aperture intersecting with said socket to receive the head and point of a cigar, and smaller apertures outside of said central aperture to receive and guide the needles, a needle head or carrier provided with two or more puncturing-needles whose points enter the said smaller apertures, as described, and means, substantially as herein shown, for operating the said cutting and puncturing devices, as and for the purposes set forth.

2. The combination of a suitable bed or support, as *A*, a socketed cylinder or thimble, as *h*, provided with two or more apertures passing longitudinally therethrough and intersecting with said socket to receive and guide puncturing-needles, a needle head or carrier provided with two or more puncturing-needles whose points enter the said apertures, as described, and a spring arranged and acting in conjunction with said needle-head and cylinder, as set forth, whereby a cigar is pierced longitudinally and eccentrically, as and for the purposes described.

3. In a cigar puncturer and cutter, the combination, with a bed, knife, and handle, of a socketed cylinder or thimble provided with a central and surrounding apertures passing therethrough and intersecting with said socket, as described, a needle head or carrier provided with two or more puncturing-needles whose points enter said surrounding apertures, a bar, as *a c*, and lever, as *e*, operating in conjunction with said handle and needle-head, as described, for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of March, 1882.

FREDRICK JACOB.

Witnesses:

CHARLES H. PELL,  
CHAS. T. WINTERS.