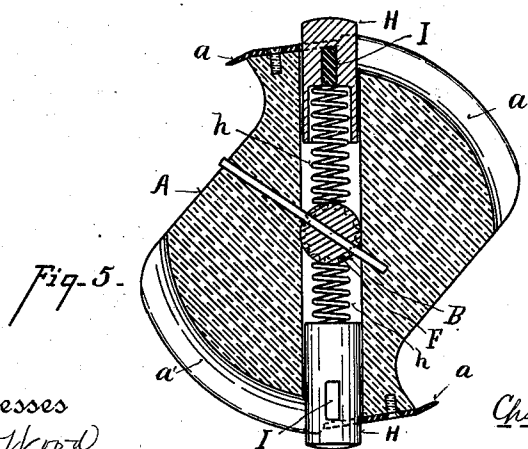
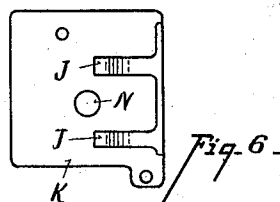
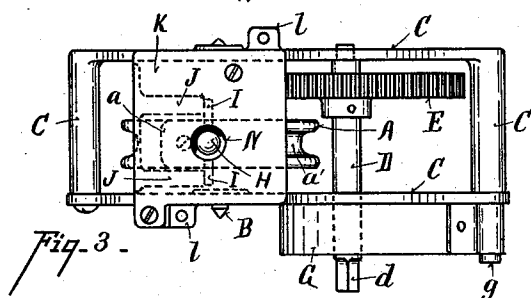
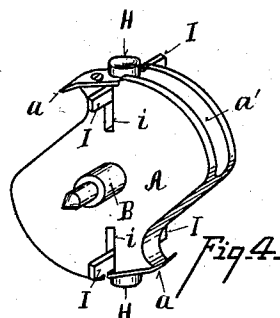
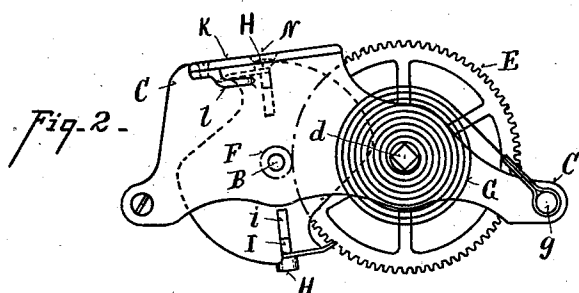
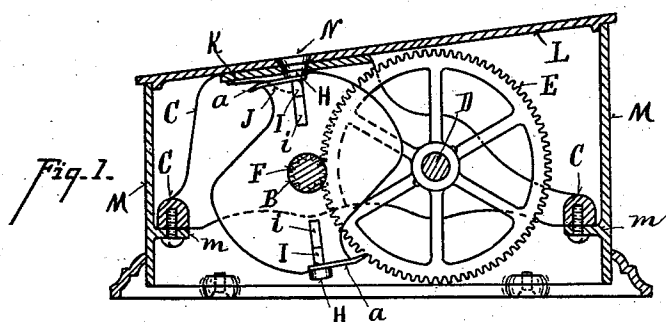


(No Model.)

C. LEHMANN & E. BRUNHOFF.
AUTOMATIC CIGAR TIP CUTTER.

No. 567,277.

Patented Sept. 8, 1896.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES LEHMANN AND EDWARD BRUNHOFF, OF CINCINNATI, OHIO.

AUTOMATIC CIGAR-TIP CUTTER.

SPECIFICATION forming part of Letters Patent No. 567,277, dated September 8, 1896.

Application filed January 27, 1896. Serial No. 577,037. (No model.)

To all whom it may concern:

Be it known that we, CHARLES LEHMANN and EDWARD BRUNHOFF, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Automatic Cigar-Tip Cutters, of which the following is a specification.

Our invention relates to improvements in automatic cigar-tip cutters.

One of its objects is to provide an improved cutter operated by a spring or other suitable driving mechanism to automatically cut off cigar-tips.

Another object is to provide suitable tripping and stop mechanism for the same.

The features of our invention will be more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a central vertical section through the cigar-tip cutter and operative mechanism located therein. Fig. 2 is a side elevation of the operative mechanism and its supporting-frame. Fig. 3 is a top plan view of the same.

Fig. 4 is a perspective view of the wheel carrying the cutter-knives. Fig. 5 is an enlarged central vertical section through the same. Fig. 6 is a bottom plan view of the plate and lugs against which the stop mechanism engages.

A represents the cutter-wheel armed with one or more knives *a* and journaled by means of a shaft B in a frame C.

D represents a shaft likewise journaled in frame C and carrying a spur-gear E, which engages and drives a spur-gear F on the shaft B, in order to rotate the cutter-wheel.

G represents a spiral spring, one end of which is looped over the stud *g*, while the other end is secured to shaft D.

d represents a wrench or key seat by means of which shaft D is turned to wind up the spring.

H represents the tripping-boss, which seats in a recess in the cutter-wheel and is held in position by means of a spiral spring *h*, seating in a socket at its inner end.

I represents cross-arms extending from opposite sides of boss H and seating in slots *i*, cut in the opposite faces of the cutter-wheel. The rear end of the knife is cut out in a semicircle around the boss H, and its rear-

wardly-projecting arms form bridges across the slots *i* to limit the outward movement of the boss H and cross-arms I.

J represents lugs or stops projecting downwardly from the under face of plate K, upon opposite sides of the cutter-wheel, and against which the cross-arms I strike or engage to stop the rotation of the cutter-wheel.

The operative parts are secured in the case in the following manner: The top plate L is secured to the plate K by means of screws passing through lugs *l*. The shell M is secured to the frame C by means of screws passing through lugs *m*.

Mode of operation: The spring G being wound up by means of a key on shank *d*, the cross-arms I engage with the lugs J and prevent the spring unwinding. When it is desired to cut off a cigar-tip, the tip is pressed upon the head of boss H through the opening N. As the cigar-tip is pressed against the boss H the boss yields, compressing the spring *h* and carrying arms I downwardly until they are free of the lugs J, when the wheel A revolves rapidly, bringing the knife around to cut off that part of the cigar-tip projecting through the opening N, after which the arms I, which follow the knife, engage with lugs J and stop the wheel with the boss H, closing the opening N, after which it may again be released in the same manner.

We have shown two knives and sets of tripping mechanism upon the cutter-wheel, but a less or greater number may be employed if desired.

a' represents grooves cut in the face of the cutter-wheel behind the bosses H, into which the cigar-tip projects as the cutter-wheel commences to revolve. It will be observed that centrifugal force as well as the spring *h* tends to hold the boss H in its outward position, causing it to act reliably and quickly, and the cross-arms I, simultaneously engaging lugs upon opposite sides of the wheel, relieve it of any tendency to torsional strain which would occur if a stop were used upon one side of the wheel only.

We claim—

1. In a cigar-tip cutter, the combination with a case having an opening for the insertion of the cigar-tip, of stop-lugs arranged upon the opposite sides of said opening, a

power-driven cutter-wheel journaled in fixed bearings and provided with a radial recess, said cutter-wheel being adapted to rotate beneath said opening, a radially-movable spring-actuated tripping-boss seated in said recess, laterally-projecting arms on the opposite sides of said tripping-boss operating to simultaneously engage the said stop-lugs, and a knife fixed on the cutter-wheel in front of the tripping-boss and provided with rearwardly-extending arms projecting across the said recess and operating to limit the outward movement of the tripping-boss, substantially as described.

2. In an automatic cigar-tip cutter, the combination with a case having an opening for the admission of the cigar-tip, of stop-lugs

arranged upon opposite sides of said opening, a solid power-driven cutter-wheel having a radial recess in its body, a spring arranged in said recess, a tripping-boss seated in said recess on said spring, laterally-projecting arms on opposite sides of said tripping-boss, said arms projecting through radial slots formed in the cutter-wheel and operating to simultaneously engage said stop-lugs, substantially as described.

In testimony whereof we have hereunto set our hands.

CHARLES LEHMANN.
EDWARD BRUNHOFF.

Witnesses:

ALBERT L. JONES,
PETER J. MOORHEAD.