(No Model.)

E. WALKER.

ADVERTISING DEVICE.

No. 524,745. Patented Aug. 21, 1894.

Fig. 1.

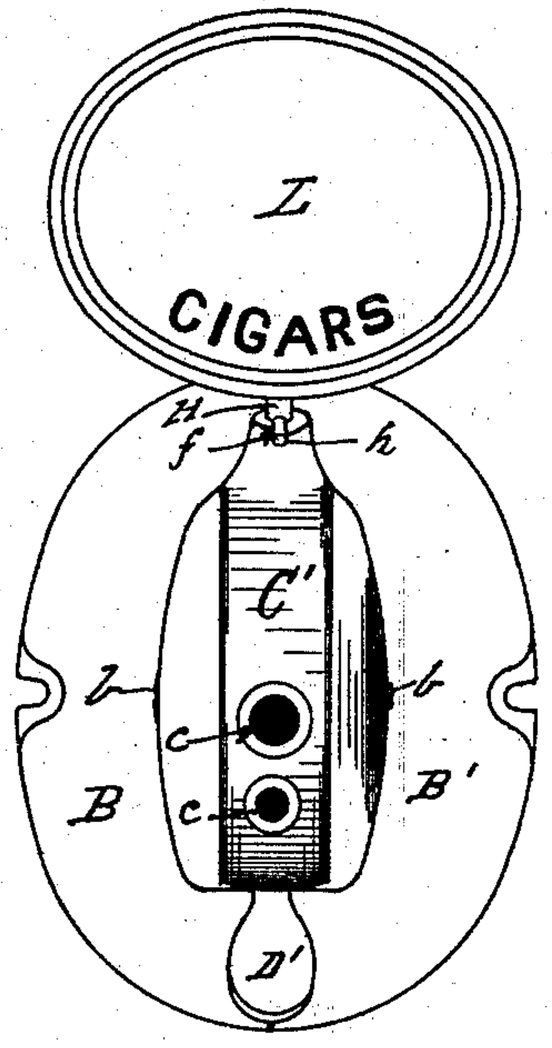


Fig. 4.

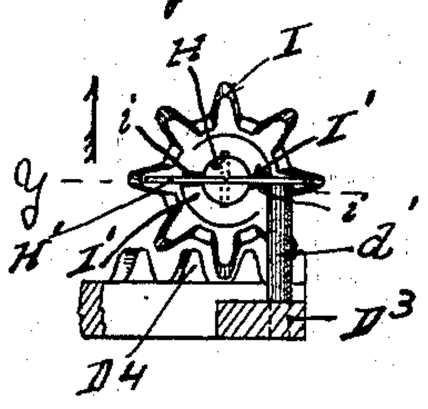


Fig. 5.

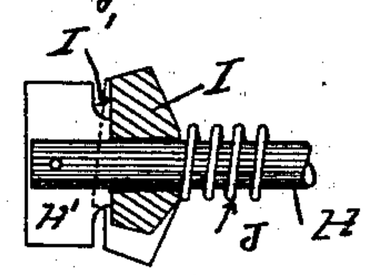


Fig. 2.

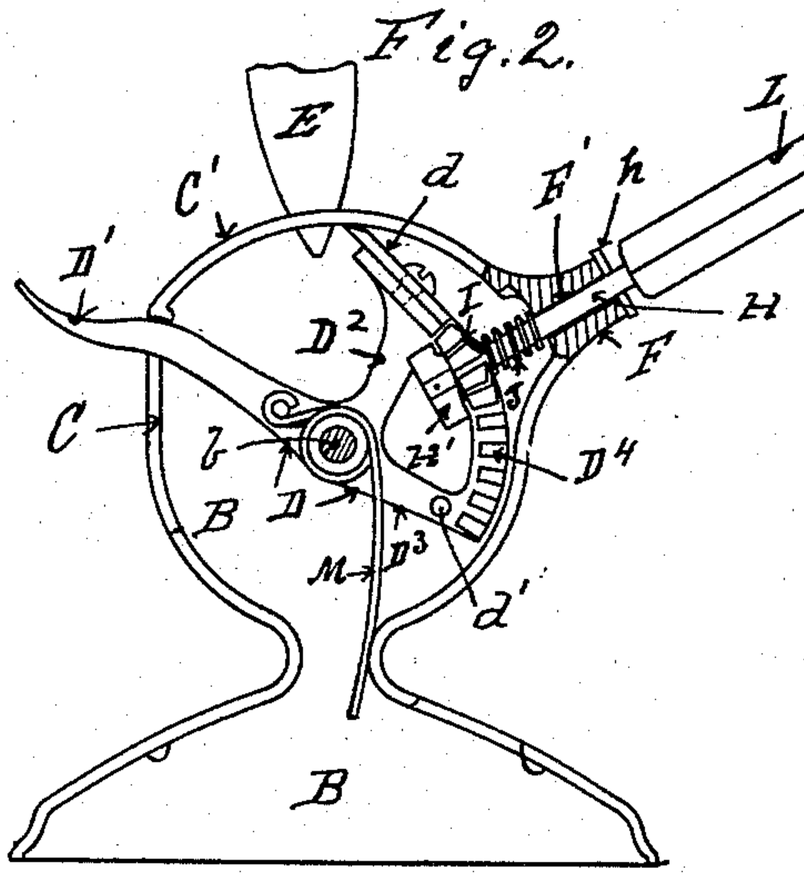
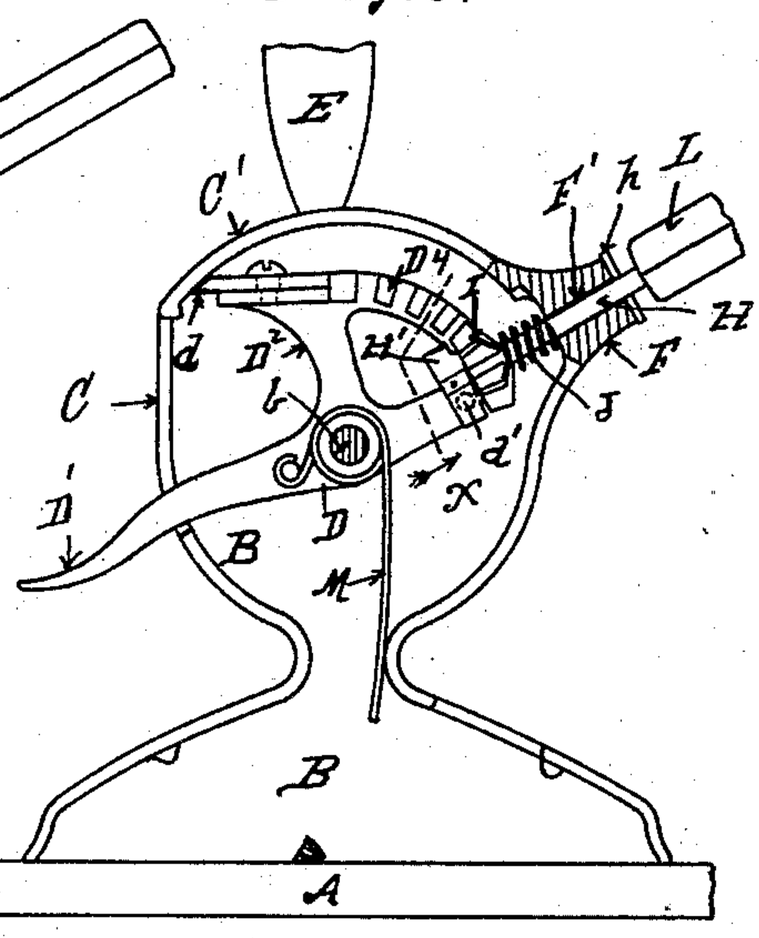


Fig. 3.



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UNITED STATES PATENT OFFICE.

EDWIN WALKER, OF ERIE, PENNSYLVANIA.

ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 524,745, dated August 21, 1894.

Application filed October 12, 1893. Serial No. 487,937. (No model.)

To all whom it may concern:

Be it known that I, EDWIN WALKER, a citizen of the United States, residing at the city of Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Advertising Devices; 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 the letters of reference marked thereon, forming part of this specification.

My invention consists in the improvements in advertising devices hereinafter set forth and explained and illustrated in the accompanying drawings, in which—

Figure 1. is a top or plan view of a cigar cutter embodying my improved advertising device. Fig. 2. is a vertical central section of the same, with the mechanism in position ready to be operated to cut the tip of a cigar and simultaneously rotate an advertising tablet. Fig. 3. is a like central section of the same secured to its base, and showing the position of the mechanism after the tip is cut and the advertising tablet is rotated. Fig. 4. is an enlarged sectional view of a portion of the mechanism of my improved advertising device, on the line *x* in Fig. 3, looking in the direction of the arrow. Fig. 5. is an enlarged view of a portion of the mechanism of my improved advertising device, partially in elevation and partially in section, on the line *y* in Fig. 4, looking in the direction of the arrow.

In the construction of my advertising device shown in the drawings A is the base, to which the frame of the device is secured; this frame consisting preferably of two halves or sections B and B′ which are preferably secured together by means of a central screw bolt *b* which also forms a pivot or axis upon which the operating lever hereinafter described is mounted; these parts B and B′ of the frame when placed together forming a shell or case, the upper part of which incloses the operating mechanism of the device, and the lower part, together with the lever A, forming a receptacle for the tips cut from cigars.

On the central screw bolt *b* is pivoted an operating lever D, which is provided with arms D′ D^2 D^3, the arm D′ thereof, extending outward through an oblong opening C in the frame, so as to be reached by the operator; the arm D^2 thereof, extends upward at an angle to the arm D′, and has secured thereto a cutter *d* which, as the arm D′ of the lever D is depressed moves over the under surface C′ of the upper part of the frame, and cuts the tip of a cigar E inserted in one of the holes *c* therein.

The arm D^3 of the lever D extends some distance beyond the axis *b* of the operating lever D, and between the ends of the arms D^2 and D^3 is a segment of bevel rack gear D^4, as and for the purpose hereinafter set forth, and in the arm D^3 of the operating lever is a laterally projecting stud pin *d′*, as and for the purpose hereinafter set forth.

On the section B of the frame, opposite the oblong lever opening C is a sleeve like projection F, through which is an opening F′ radial to the axis *b* of the lever D, and in the opening F′ is a shaft H adapted both to rotate and move longitudinally in the bearing F′.

On the inner end of the shaft H is loosely mounted a bevel gear pinion I adapted to intermesh with the segment of rack gearing D^4, and in the end of the shaft H is secured a cross piece H′ and through the shaft H at the outer end of the sleeve bearing F is a transverse pin *h* adapted to engage depressions *f* (see Fig. 1.) on the outer end of the sleeve bearing F and on the shaft H, between the inner end of the sleeve bearing F and the hub of the loose pinion I, is a spiral spring J, which normally operates to force the pin *h* into close contact with the outer end of the sleeve bearing F and to force the outer end of the hub of the spur gear pinion I into close contact with the transverse piece H′.

Secured in the end of the shaft H and on the outer end of the spur gear pinion I are radial ratchet teeth I′ adapted to engage the transverse piece H′ in the shaft H at each half revolution of the pinion I, so as to rotate the shaft H half around; these projections being shown in the enlarged views, Figs. 4 and 5; at the end of the catches I are slight depressions *i* to receive the edges of the cross piece H′ after it has passed over the ends of the catches I′ and retain the cross piece H′

in engagement until moved out therefrom, as and for the purpose hereinafter set forth.

Upon the shaft H is secured a reversible tablet or other suitable device L, for the purpose upon the opposite sides of which are placed such advertising devices as may be desired, so that at each half revolution of the shaft H, as hereinafter described, the faces of the tablet will be reversed, and the advertisement thereon presented to the operator, and will remain in this position while the lever D is returned to its normal position by the operation of the retracting spring M, as shown in Fig. 2, when, by again depressing the lever D the tablet L may again be reversed.

In operation, the operator inserts a cigar E into one of the openings *c* in the top C′ of the frame, and then depresses the arm D′ of the lever D which brings the cutter *d* around, so as to sever the tip of the cigar, and at the same time, by means of the rack D^4, rotates the pinion I half around, and the catches I′ thereon being in engagement with the transverse piece H′ in the end of the shaft H, carries the shaft H and the tablet L thereon half around until the pin *d′* in the arm D^3 of the lever D engages the cross piece H′ as illustrated in Figs. 3 and 4, which stops the movement of the mechanism at this point and at the exact time the transverse pin *h* reaches the depression *f* in the outer end of the sleeve bearing F, the arm D′ of the lever D being then released, the rack D^4 operates on the loose pinion I to rotate it backward; the edges of the cross piece H′ traveling up the wedge shaped catches I′ until it passes over them and down into the depressions *i* in the face of the pinion I, the spiral spring J during this time has performed the double function of yielding to the longitudinal movement of the pinion I on the shaft H, while at the same time it has operated to retain the transverse pin *h* in the depression *f* in the outer end of the sleeve bearing F and prevented the rotation of the shaft H backward during the reverse movement of the pinion I. Suppose, however, the arm D′ of the lever D is not depressed sufficiently far to rotate the pinion I and shaft H fully half around, the notches or depressions *i* in the pinion I, then serve to retain the cross piece therein and instead of leaving the shaft H and the tablet L in the position they would be in if rotated, say one third around, on the arm D′ being released the whole mechanism returns to its normal position; thus, it is impossible to so operate the device as to leave the tablet L otherwise than in its normal position.

Having thus fully described my invention, so as to enable others to construct and operate the same, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination in an advertising device, of a lever carrying a segment of bevel rack gear, a retracting spring operating on said lever, with a shaft mounted and rotating radially to the axis of said lever, a tablet secured to said shaft adapted to be reversed at each half revolution of said shaft, a loose bevel ratchet pinion on said shaft intermeshing with the bevel rack gear on said lever, and a spring operating both on said shaft and on said loose bevel pinion, substantially as and for the purpose set forth.

2. The combination in an advertising device, of a lever carrying a cutting blade and a segment of rack gear, and a retracting spring adapted to return said lever to its normal position, a shaft mounted radially to the axis of said lever, a reversible tablet on the outer end of said shaft, a transverse pin in said shaft adapted to engage depressions in the outer end of said shaft bearing, a loose bevel pinion mounted on said shaft intermeshing with the rack gear on said lever, a transverse piece in the end of said shaft adapted to engage catches in the end of said pinion, and a spiral spring on said shaft, between the inner end of the bearing thereof and the loose bevel pinion thereon; substantially as and for the purpose set forth.

3. The combination in the tablet rotating mechanism of an advertising device, of a rack D^4 on the operating lever D, a shaft H mounted radially to the axis *b* of the cutter lever, a loose pinion I on said shaft intermeshing with said rack gear, and a transverse piece H′ in the end of said shaft adapted to engage ratchet catches I′ in the end of said pinion, a spiral spring J operating on said shaft H and on the pinion I, and a stop *d′* adapted to engage the transverse piece H′; substantially as and for the purpose set forth.

4. The combination in the tablet rotating mechanism of an advertising device, of an operating lever D, rack gear D^4 on said lever, a shaft H mounted in a sleeve bearing F radially to the axis *b* of the operating lever, depressions *f* in the outer end of said shaft bearing, a transverse pin in said shaft adapted to enter said depressions *f*, a loose pinion I intermeshing with the rack gear D^4, a transverse piece H′ in the end of the shaft H, adapted to engage catches I′ in the end of the pinion I, and a spiral spring operating on the shaft H and on the pinion I; substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN WALKER.

Witnesses:
F. EINFELDT,
H. J. CURTZE.