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F. M. FOX.

ADVERTISING DEVICE AND CIGAR CUTTER.

APPLICATION FILED SEPT. 17, 1902.

NO MODEL.

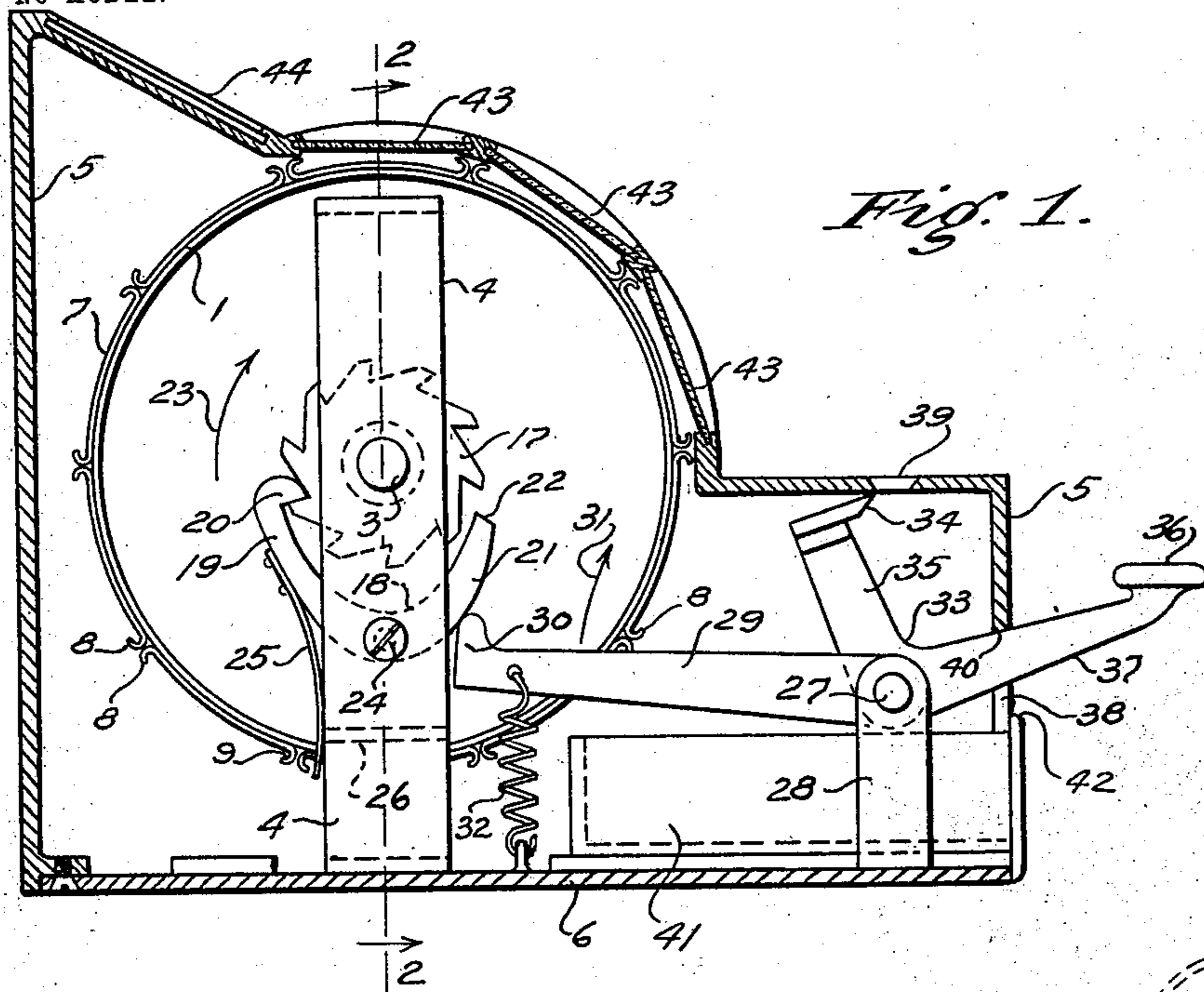


Fig. 1.

Fig. 3.

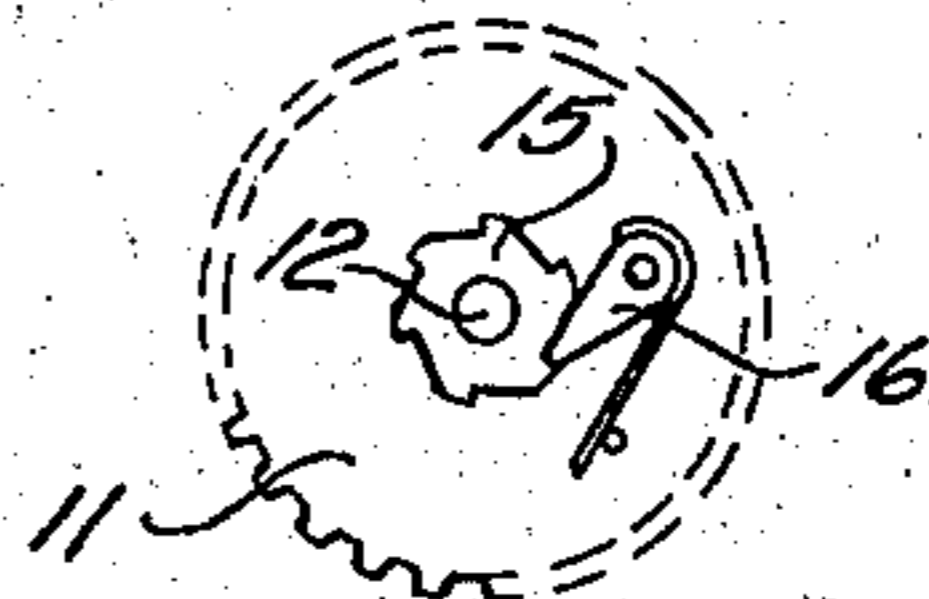
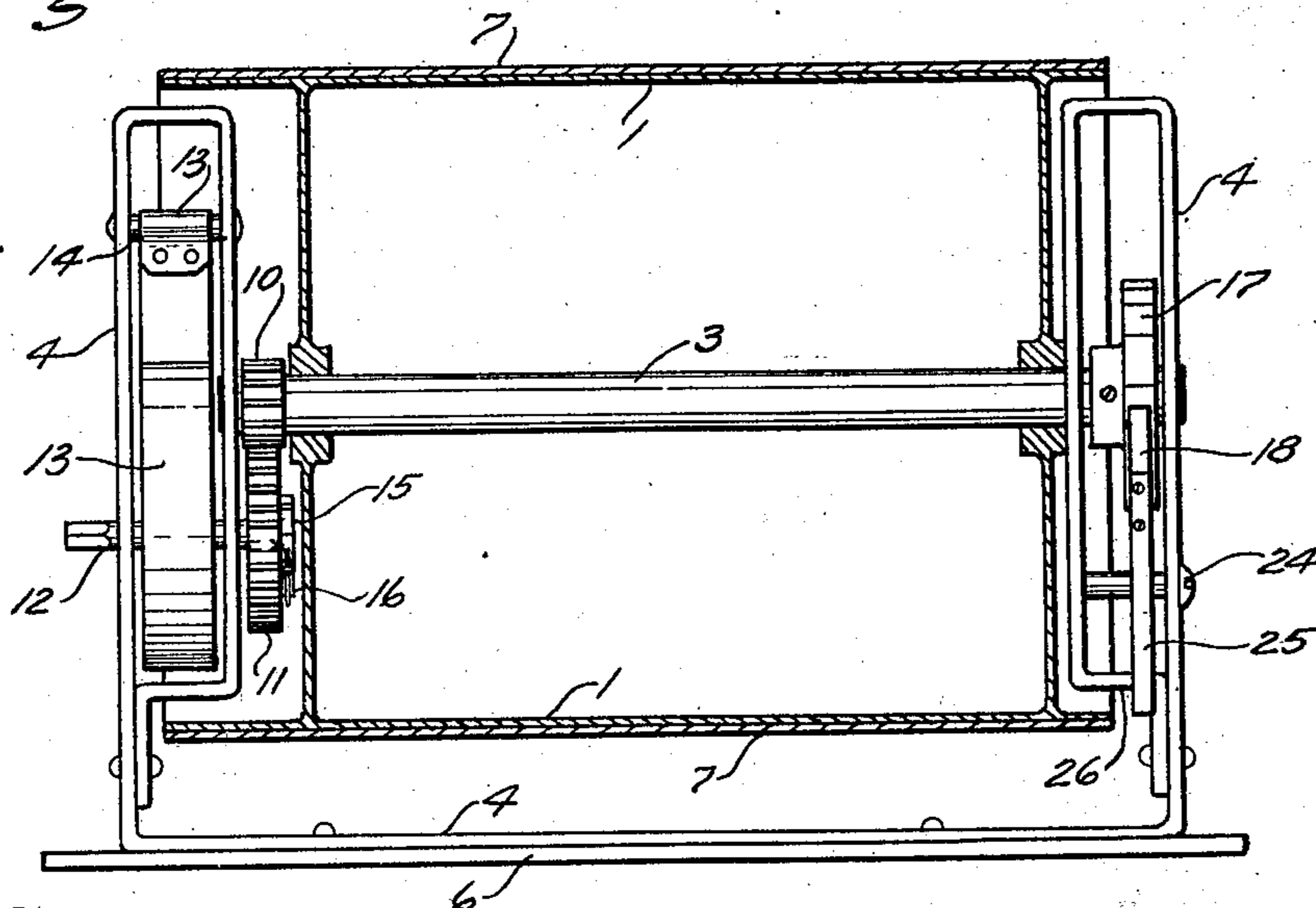


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

FRANCES M. FOX, OF CHICAGO, ILLINOIS.

ADVERTISING DEVICE AND CIGAR-CUTTER.

SPECIFICATION forming part of Letters Patent No. 762,815, dated June 14, 1904.

Application filed September 17, 1902. Serial No. 123,714. (No model.)

To all whom it may concern:

Be it known that I, FRANCES M. FOX, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Advertising Devices and Cigar-Cutters, of which the following is a specification.

The main object of my invention is to provide an improved and simple mechanical advertising novelty for revealing in succession a series of different advertisements, said device being combined with and operated by a cigar-cutter. I accomplish this object by the device shown in the accompanying drawings, in which—

Figure 1 is a side elevation of the device constructed according to my invention, the casing being partly broken away to show the interior mechanism. Fig. 2 is an elevation of the mechanism for operating the advertising-drum, the casing being omitted and the drum being broken away along the line 2 2 of Fig. 1. Fig. 3 is an elevation of the gear 11, showing its pawl-and-ratchet connection with the shaft 12.

In the construction shown a cylindrical drum 1 is rigidly secured to a horizontally-disposed shaft 3, which is journaled at its ends in a supporting-frame 4. The frame 4 is preferably made of a flat strip of metal bent to the form shown. The drum is inclosed in a casing 5, the supporting-frame 4 being rigidly secured to the bottom plate 6 of said casing. A plurality of frames 7 are secured to the periphery of the drum 1 and extend longitudinally of same. Each of the frames 7 is preferably made of a rectangular piece of sheet metal, having its longitudinal edges 8 curled back upon themselves to form grooves 9 for holding an advertising-card in position on the periphery of the drum 1.

One end of the shaft 3 carries thereon a pinion 10, which meshes with a gear 11. The gear 11 is mounted on a shaft 12, which is journaled in the frame 4 below the shaft 3 and has mounted thereon a spiral spring 13. One end of the spring 13 is secured to the shaft 12, and the other end is secured to a pin 14 in the frame 4. The gear 11 is loosely mounted on

the shaft 12. A ratchet-wheel 15 is rigidly secured to the shaft 12 at one side of the gear 11 and connects with the gear 11 by means of a spring-actuated pawl 16. This pawl-and-ratchet mechanism is so arranged that the turning of the shaft 12 through the unwinding of the spring 13 will drive the drum 1, while the turning of the shaft 12 in an opposite direction will wind the spring 13 without turning the drum 1.

Mounted on the end of the shaft 3 that is at the right in Fig. 2 is an escape-wheel 17, which coöperates with an anchor-pawl 18 for controlling the rotation of the drum 1. The arm 19 of the pawl 18 terminates in a hook 20, while the arm 21 has its free end 22 formed as shown in Fig. 1. It will be seen that the pawl 18 is of suitable form to check the rotation of the escape-wheel 17 in the direction of the arrow 23. The pawl 18 is pivoted to the frame 4 at 24 and is of such form that one or the other of its ends is always in position for engaging the teeth on the escape-wheel 17. A flat spring 25 is secured to the pawl 18 and bears against the part 26 of the frame 4 in suitable manner to normally urge the hook 20 into engaging position with the escape-wheel 17.

A second horizontal shaft 27 is journaled in the frame 28, which is also secured to the bottom plate 6 of the casing 5. The shaft 27 has rigidly secured thereon an arm 29, which has its free end 30 of suitable form for engaging the arm 22 of the pawl 18 and which is adapted when moved in the direction of the arrow 31 to push the end 22 of the pawl 18 into position for engaging the escape-wheel 17 and to release the hook 20 from such engagement. The arm 29 is normally held in the position shown in Fig. 1 by the spring 32. The shaft 27 has also mounted thereon a bell-crank lever 33, having a knife-blade 34 mounted at the end of one of its arms 35 and a handle 36 at the end of its arm 37. The arm 37 extends through a slot 38 in the front of the casing 5, and the arm 35 extends in suitable direction to cause the knife 34 to move across the aperture 39 in the casing 5. The aperture 39 is of suitable form for receiving the point of a cigar. The slot 38 in the front of the casing 5 is of suitable length vertically to

limit the movement of the arm 37, the upper end 40 of the slot 38 forming a stop for limiting the upward movement of the arm 37, and consequently limiting the downward movement of the arm 29. A suitable drawer 41 is seated in the lower part of the casing 5 and is adapted for receiving the cuttings from cigars inserted in the aperture 39. The top 42 of the drawer 41 serves as a stop for limiting the downward movement of the arm 37.

The upper part of the casing 5 is provided with glass panes 43, which are disposed in suitable position for exposing the advertisements on the adjacent parts of the drum 1. The casing 5 is also provided with a space 44, which is suitably arranged for receiving an advertising-card which will always be visible.

The escape-wheel 17 is provided with the same number of teeth as there are advertising-spaces upon the periphery of the drum 1, so that the movement of the escape-wheel 17 through an angle corresponding to a single tooth-space will move the drum 1 through an angle corresponding to one of the advertising-spaces.

The operation of the device shown is as follows: When it is desired to cut off the top of a cigar, the point of the cigar is inserted into the aperture 39, and the handle 36 is pressed downward. This movement causes the knife 34 to move across the aperture 39 and moves the arm 29 upward, forcing the pawl 18 against the spring 25 and moving the hook 20 of the pawl 18 out of engagement with the escape-wheel 17. This permits the drum 1 to revolve slightly under the action of the spring 13 and its connected gearing until stopped by the end 22 of the pawl 18. As soon as the handle 36 is released the arm 29 will be drawn outwardly by the spring 32, and the spring 25 will release the end 22 of the pawl 18 from engagement with the escape-wheel 17 and move the hook 20 into its engaging position. The drum will now continue to revolve until the escape-wheel 17 has advanced one tooth-space and has been stopped by the hook 20. This will have advanced the advertising-cards through one of the angular intervals of the movement

of the drum 1 and will bring a new card into opposition with the upper pane 43. It will thus be seen that each advertising-card on the surface of the drum is successively brought into position to be seen by the user of the device and that each card will be visible during three successive operations of the cigar-cutter.

It will be understood that many of the details of the device shown may be altered without departing from the spirit of my invention. I therefore do not confine myself to such details except as hereinafter limited in the claims.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination with the casing provided with a sight-opening, and an opening for the reception of an end of a cigar, of a spring-actuated drum journaled in said casing beneath the sight-opening, an escapement-wheel mounted to rotate with said drum, a pawl having its opposite ends adapted to alternately engage said escapement, a shaft journaled beneath the other opening of the casing, a spring-retracted arm secured to said shaft and being adapted to actuate said escapement-wheel, a bell-crank lever secured to said shaft, and a knife-blade carried by one arm of said lever, substantially as and for the purpose specified.

2. In combination with the advertising-wheel, the means for moving the same, and the escapement mechanism comprising a ratchet-wheel moving in unison with said advertising-wheel and a spring-actuated anchor-pawl, a shaft journaled in front of said wheel, an arm carried by said shaft and having its inner end engaging said pawl, and a bell-crank lever secured to said shaft and having one of its ends provided with a knife-blade, substantially as and for the purpose specified.

Signed at Chicago this 15th day of September, 1902.

FRANCES M. FOX.

Witnesses:

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