Feb. 21, 1933. G. W. BOWMAN 1,898,077

COMBINATION CIGARETTE HOLDER, ASH RECEIVER, AND IGNITER

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Fig. 1.

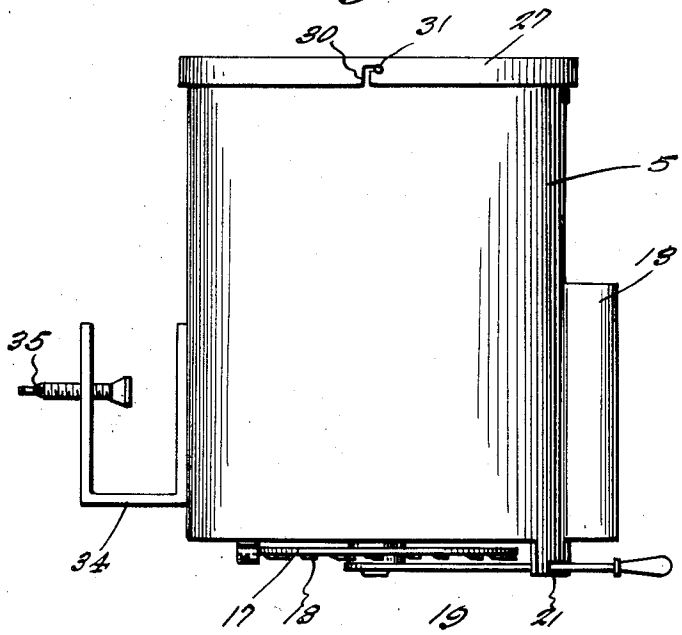


Fig. 2.

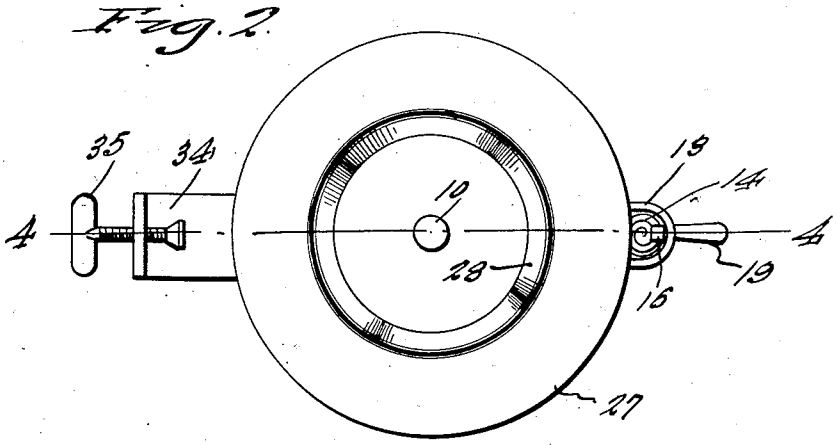
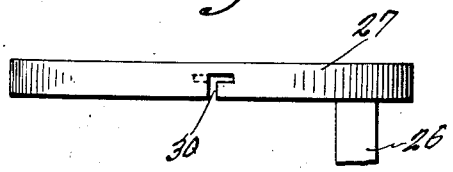


Fig. 12.



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Fig. 3.

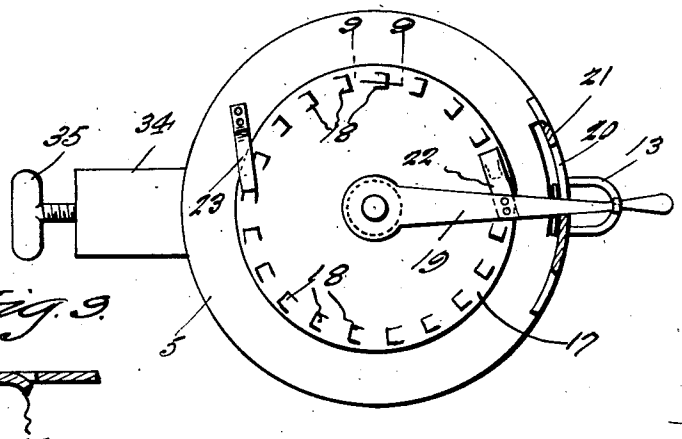


Fig. 9.

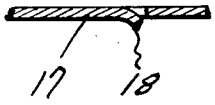


Fig. 4.

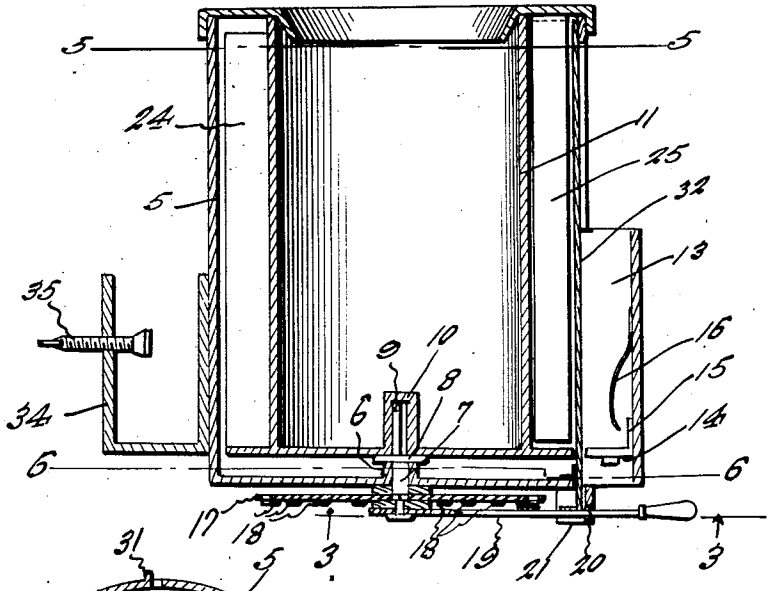
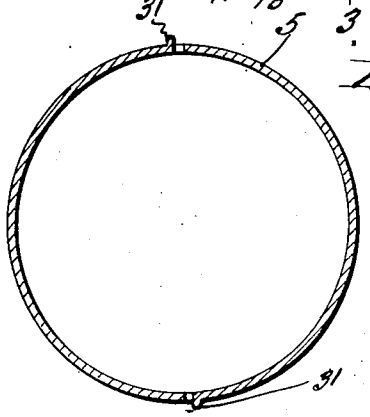


Fig. 11.



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Fig. 5.

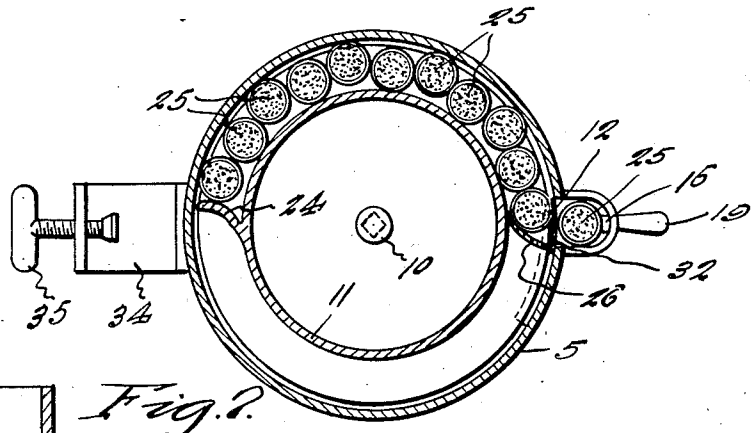


Fig. 7.

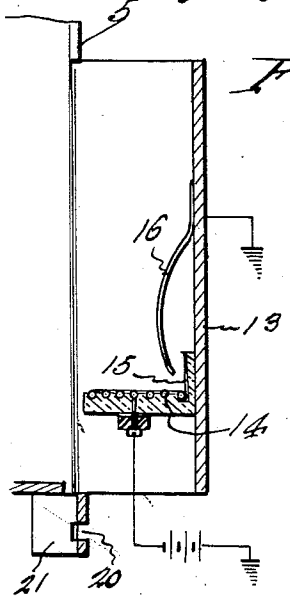


Fig. 6.

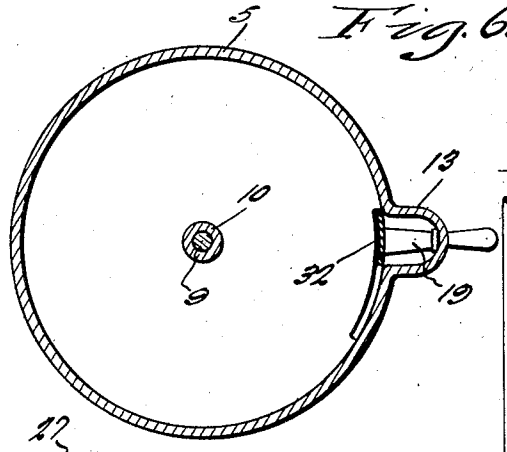


Fig. 8.

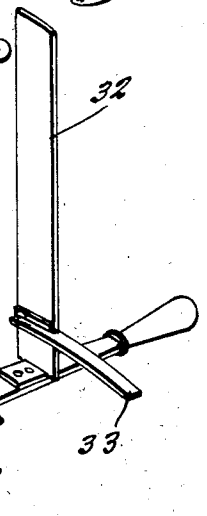
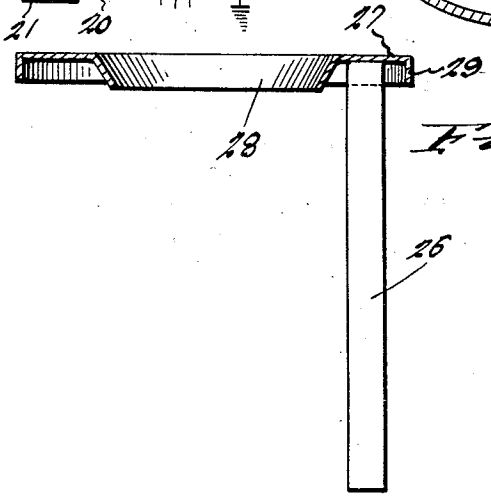


Fig. 10.



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1,898,077

UNITED STATES PATENT OFFICE

GLENN W. BOWMAN, OF HAYMARKET, VIRGINIA, ASSIGNOR TO EVOLY L. GOUGH, OF NOKESVILLE, VIRGINIA

COMBINATION CIGARETTE HOLDER, ASH RECEIVER, AND IGNITER

Application filed April 10, 1931. Serial No. 529,185.

This invention appertains to new and useful improvements in smokers' appliances, and more particularly to a device adapted for holding cigarettes, receiving ashes, and providing means for igniting cigarettes.

The principal object of this invention is to provide a cigarette holder and igniter wherein the cigarettes are automatically ignited as they are dispensed.

Another important object of the invention is to provide a cigarette holder wherein an ash receiver is provided around which the cigarettes are arranged.

Another important object of the invention is to provide a cigarette holder wherein the cigarette can be dispensed singularly in a convenient and easy manner.

Still another important object of the invention is to provide a combination device of the character stated, which because of its simple construction, can be manufactured at a low cost.

These and other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:—

Figure 1 represents a side elevational view of the device.

Fig. 2 is a top plane view of the invention.

Fig. 3 represents a sectional view taken substantially on the line 3—3 of Fig. 4.

Fig. 4 represents a vertical sectional view taken substantially on the line 4—4 of Fig. 2.

Fig. 5 represents a horizontal sectional view taken substantially on the line 5—5 of Fig. 4.

Fig. 6 represents a horizontal sectional view taken substantially on the line 6—6 of Fig. 4.

Fig. 7 represents an enlarged fragmentary detailed sectional view through the igniter.

Fig. 8 represents a perspective view of the actuator for the dispensing means.

Fig. 9 represents a sectional view taken substantially on the line 9—9 of Fig. 3.

Fig. 10 represents a vertical view through the cover with the depending ejector.

Fig. 11 represents a horizontal sectional view through the shell showing the lugs.

Fig. 12 represents a side elevational view of the cover showing one of the lug receiving slots.

Referring to the drawings wherein like numerals designate like parts, it can be seen that numeral 5 represents a cylindrical shell, open at its top and closed at its bottom. The bottom of the shell has a centrally located bearing 6 through which the shaft 7 is journalled. This shaft 7 is provided with a thrust collar 8 and a polygonal-shaped extension 9 for disposition in to the polygonal-shaped interior of the socket 10, which projects into the tubular ash receiver 11 from the bottom thereof. This ash receiver is open at its top and the top of this ash receiver is normally substantially flush with the upper edge of the shell 5.

As is clearly shown in Fig. 5, the shell 5 has a vertically extending opening 12 therein, serving to communicate the space between the shell and the receiver 11 with the interior of the pocket 13. Substantially this is half as high as the shell 5, so that the upper portion of a cigarette located therein will project a substantial distance above the upper end thereof, so that the same can be readily extracted therefrom.

Mounted within the pocket 13 is the electrical igniter 14 which has a stationary contact 15 engageable by the spring finger 16 secured to the inner side of the pocket 13. Normally this spring finger 16 is spaced from the contact 15, however, when a cigarette is projected into the pocket 13, its pressure against the spring finger 16 will urge the spring finger against the contact 15 and close a circuit for supplying energy to the igniter 14. Obviously, as the cigarette is resting upon the igniter 14, the contacting end will ignite and when the cigarette is removed from the pocket, it is ready to be smoked.

The lower end of the shaft 7 has the disk 17 secured thereto and this disk adjacent its periphery is provided with struck-out teeth 18, disposed downwardly in the manner substantially shown in Fig. 4. To the lower extremity of this shaft 7 is secured the lever 19 which extends laterally through a slot 20 in the depending plate 21. Extending from

this arm 19 is the finger 22 which is engageable with the teeth 18. A spring dog 23 is secured to the bottom of the shell 5 and engages the teeth 18 as the disk 17 is fed around by the lever 19.

Obviously, the operation of the lever 19 serves to move the ash receiver 11 so that the follower 24 thereon will urge the cigarette 24 around in the space between the ash receiver 11 and the shell 5 toward the opening 12. In order to eject the cigarettes one by one through this opening and into the pocket 13, a curved deflector plate 26 is provided and this depends from the annular cover 27. This cover is provided with a central opening, the edge portion of which is provided with a downwardly tapering flange 28 for disposition into the ash receiver 11 in the manner shown in Fig. 4. The periphery of the cover 27 is provided with a flange 29 having bayonet slots 30 therein for receiving the lugs 31 on the shell 5.

While the receiver 11 is free to move independently of the cover 27, the latter is fixed to the shell 5 by the bayonet connections, and obviously this results in the fixing of the deflector plate 26 in substantially the position shown in Fig. 5, so that, as the cigarettes are pressed against the same, they will be deflected outwardly through the opening 12 and singularly into the pocket 13, where they are ignited and subsequently withdrawn.

To prevent the cigarettes from entering the pocket 13 when a cigarette is not desired, a shutter 32 is provided on the lever 19 and projects upwardly through an opening in the bottom of the shell 5 for normal disposition over the opening 12 at the inside of the shell. This shutter 32 is provided with a guide strip 33 which maintains the slot in which the shutter 32 slides, normally closed besides acting as a guide for the shutter.

The shell 5 is equipped with a U-member 34 in which a clamp screw 35 operates, so that the novel device can be mounted conveniently on suitable supporting structures.

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having thus described my invention, what I claim as new is:—

1. A device of the character described comprising a shell, a cylinder in the shell, a cap for the shell, said cylinder and shell being spaced apart to provide a chamber for receiving articles to be dispensed, said shell being provided with an opening therein, means for rotating the cylinder, a single follower on the cylinder projecting into the article space, and a deflector plate on the cap depending into the article space adjacent the said opening in the said shell.

2. A device of the character described comprising a shell, a rotary cylinder in the shell, a cap for the shell, said cylinder and shell being spaced apart to provide a chamber for the reception of cigarettes, said shell being provided with an opening therein, a single follower on the receiver for feeding the cigarettes toward the said opening, and a stationary deflector for disposition in the cigarette chamber and adjacent the opening in the shell for deflecting cigarettes through the openings as they are fed against the same.

3. In a cigarette dispenser comprising a shell having an opening therein, through which cigarettes are discharged, a pocket on the outer side of the shell adjacent the said opening, an igniter in the lower portion of the pocket, a switch, said switch comprising a stationary contact, and a weak leaf spring secured at one end to the pocket structure and normally spaced at its opposite end from the contact and being located in the path of discharging cigarettes.

4. A device of the character described comprising a shell, a rotary cylinder in the shell, said cylinder and shell being spaced apart to provide an annular chamber for the reception of cigarettes, said shell being provided with an opening therein for the discharge of the cigarettes, a deflector for deflecting cigarettes through said opening, means for holding a cigarette which has passed through said opening, a follower on the cylinder for feeding cigarettes toward and through the opening, oscillatable means for advancing the shell and follower step by step, an igniter for lighting a cigarette in said holding means, a cigarette-operated switch for effecting the operation of said igniter when a cigarette is in said holding means, and means for closing said opening and operatively connected to said reciprocable means whereby to prevent ignition of a cigarette in said chamber from a cigarette which has passed through said opening into said receiving means.

In testimony whereof I affix my signature.

GLENN W. BOWMAN.