

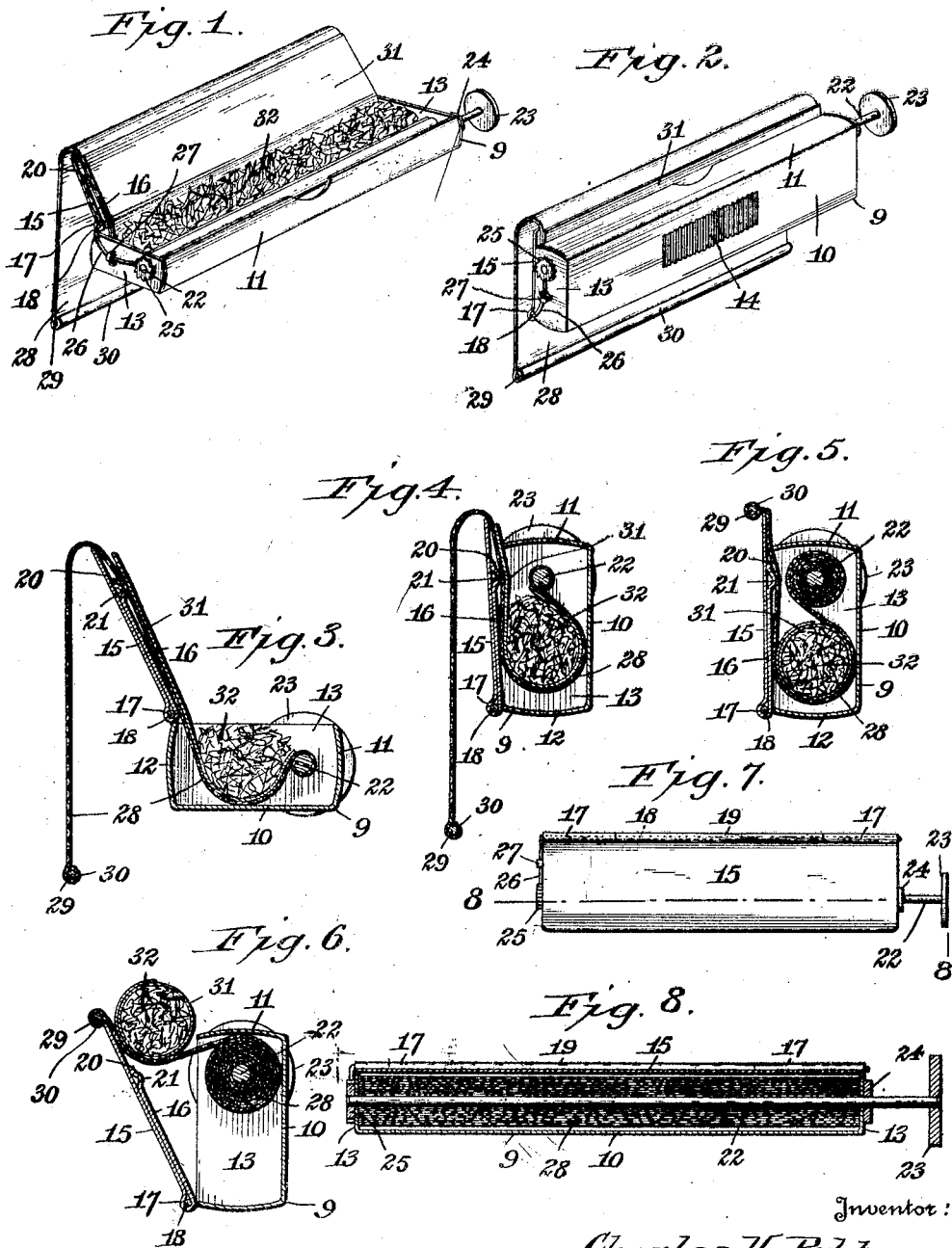
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C. H. FOHLE

CIGARETTE MAKING DEVICE

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# UNITED STATES PATENT OFFICE.

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CIGARETTE-MAKING DEVICE.

Application filed August 9, 1921. Serial No. 490,853.

*To all whom it may concern:*

Be it known that I, CHARLES H. POHLE, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Cigarette-Making Devices, of which the following is a specification.

My invention relates to improvements in cigarette making devices.

The primary object of my invention is the production of a simple and inexpensive cigarette making device whereby cigarettes can be quickly made and perfectly formed with the tobacco evenly rolled or packed within the paper wrapper from end to end thereof.

A further object of my invention is the production of a device of this kind, which is comparatively small so that it can be conveniently carried in a vest pocket.

A still further object of my invention is to provide a cigarette making device, so constructed, that any inexperienced person can conveniently and quickly make his own cigarettes and so that the tobacco will be evenly distributed during the process of rolling the same within the paper wrapper.

A further object of my invention is the provision of a cigarette making device in which the rolling of a cigarette takes place within a container or enclosure and wherein the cigarette when completed is automatically ejected therefrom.

The invention consists in an elongated container provided with a pivoted cover, a roller within the container having one end of an apron secured thereto, which apron is adapted to lie over said cover preparatory to placing a paper wrapper and tobacco within the container, and means for rolling up said roller with the tobacco and wrapper therein and limiting the lengthwise movement of the tobacco during rolling action.

The invention also consists in a container having a cigarette rolling element therein, and novel means for preventing the turning of said cigarette rolling element in the wrong direction.

It further consists in the novel features of construction and in the arrangement and combination of parts to be hereinafter described and more particularly pointed out in the subjoined claims.

In the drawings:—

Fig. 1 is a perspective view of my im-

proved cigarette rolling device, showing the same with a paper wrapper positioned therein and tobacco placed in position to be rolled within said wrapper. 60

Fig. 2 is a perspective view of the device showing the paper wrapper in the act of being rolled up to form a cigarette.

Fig. 3 is an enlarged transverse section showing a paper wrapper and tobacco placed within the device preparatory to closing the cover of the device and rolling a cigarette. 65

Fig. 4 is a similar view showing the cover of the device closed, preparatory to rolling up the cigarette rolling apron, the device being positioned in what I consider the most convenient way for rolling a cigarette. 70

Fig. 5 is a view similar to Fig. 4, with the cigarette completely rolled. 75

Fig. 6 is a view similar to Fig. 5, showing the cover slightly released during the final rolling operation and the cigarette automatically exposed so that it can be taken hold of. 80

Fig. 7 is a plan view of the device.

Fig. 8 is an enlarged longitudinal section taken on line 8—8, Fig. 7.

My device comprises an elongated container 9 formed in any suitable manner, but preferably stamped from a single piece of tin or other thin metal, said container having a bottom wall 10, a front wall 11, a rear wall 12, and end wall 13, thus forming a trough-like structure. 85

The bottom is preferably provided with a series of transversely-disposed V-shaped corrugations or otherwise roughened, as at 14, to provide a part against which matches may be struck. 15 designates a cover which is pivotally secured to the upper edge of the rear wall 12, it being formed of material similar to the container or trough-like member and having a portion doubled upon itself, as at 16, thus forming a loop 17 at one edge of the cover through which a pivot pin 18 is passed which also extends through a loop 19 formed at the upper edge of the rear wall 12, the loop 19 being alined with the loops 17 of the cover. The doubled-over portion 16 of the cover terminates short of the outer edge of the cover proper, as at 20, and near its outer end has a longitudinal inwardly-directed rib 21. 100 105

Extending lengthwise through the container or trough-like member 9 is a roller 22, which is journaled in opposite end walls 110

13, said roller extending outwardly beyond the outer surface of each of said end walls, one end extending outwardly a greater distance than the other and having a disk 23 secured thereto, which serves as a handle for conveniently rotating said roller. A stop collar 24 is soldered or otherwise secured to said roller near one end thereof and bears against one of the end walls 13 and at the other end of said roller a ratchet wheel 25 is secured, said ratchet wheel being adapted to rotate in contact with the outer face of the other end wall 13. The pivot 17 extends from one end of the cover and is bent at a right angle, as at 26, and directed toward the toothed edge of said ratchet wheel, it being adapted for engagement with the teeth thereof. Said pivot extension serves as a pawl for said ratchet wheel and is retained in position by a clip 27 stamped from the adjacent end wall 13, said clip being bent over said pivot extension or pawl to prevent movement of the latter and being placed a suitable distance from said ratchet wheel so that the end thereof is free to flex, thus permitting said ratchet wheel to rotate in one direction, during which action the pivot extension or pawl flexes and acts as a spring pawl, thus permitting the teeth of the ratchet wheel to ride over the end thereof. The extremity of said pivot extension or pawl enters the notches formed by said teeth to prevent movement of said ratchet wheel in an opposite direction.

28 designates a cigarette rolling apron in the form of a piece of fabric or other suitable material, which is of a length capable of extending rearwardly and upwardly over the cover and thence hang from the free end of the cover when opened, said piece of fabric or apron being of a width to reach from end wall to end wall of the container. One end of said apron is secured to the roller 22 and the other end is preferably rolled around a stick or rod 29 so as to form a stop bead 30 at the outer end of said apron.

It is to be noted that the roller 22 is spaced a sufficient distance from the front wall 11 so as to provide clearance for the apron to be rolled around the same, and it is also elevated a distance from the bottom of the container for a double purpose, namely,—to provide clearance for the roller to be wound around the same, and also to permit the apron to hang downwardly therefrom toward the bottom 9 of the container when unrolled, as best shown in Fig. 3, thereby forming a depressed portion in the apron to receive tobacco.

The cover 15 is first opened up, after which the apron is unwound, this being permitted by flexing the pivot extension or pawl 26 so that it will be out of contact with the ratchet wheel 25. When the apron is unwound it is brought upwardly over the cover

and the loose outer portion thereof allowed to hang over the free end of the cover, as shown in Fig. 3, the portion near the roller being permitted to sag or depend from the roller so as to form a trough-like portion into which is placed a paper wrapper, designated by the numeral 31, the wrapper being extended upwardly onto that portion of the apron lying against the cover 15, also shown in Fig. 4. Tobacco, designated by the numeral 32, is then placed on that portion of the paper wrapper given a trough-like formation, after which the cover 15 is closed, as best shown in Fig. 4. When the cover is closed the rib 21 presses the apron and cigarette paper inwardly, slight pressure being applied to the cover by the fingers of the left hand. The device may be retained in the same position as shown in Fig. 3, but is preferably set with its bottom wall and cover vertical, as this appears to be the most convenient position for rolling the cigarette. The handle 23 on the roller is now rotated counter-clockwise, during which operation the apron is rolled around the roller and the tobacco rolled within the paper wrapper 16. It is of course understood that sufficient tobacco is to be placed upon the paper wrapper when the parts are in the position shown in Fig. 3 to assure proper filling of the wrapper when rolling the same around the tobacco. The rib 21 formed on the rebent portion of the cover acts to prevent the tobacco moving outwardly through the space between the roller and that portion of the apron lying in contact with said rib. It is of course understood that the pressure applied to the tobacco while rolling, is regulated by the pressure applied to the cover, and during this rolling action the tendency is to crowd the tobacco toward opposite ends. In this manner, tobacco is forced against the end walls 13 of the container during the rolling operation, and is therefore compressed evenly from end to end of the cigarette, thus avoiding loose or unfilled ends, which are usually produced when rolling cigarettes.

The cigarette is rolled until the stop bead 30 comes in contact with the free edge of the cover and further rotation of the roller 22 at such time with slight relief of pressure on the cover will tend to open the cover and automatically eject the cigarette from the container, as shown in Fig. 6. The marginal portion of the paper 16 is to be moistened, either before closing the cover or after the cover is closed provided said marginal portion is then exposed, in consequence of which the rolling of the cigarette within the apron will bring the moistened portion in contact with another part of the wrapper and adhere thereto so that a perfectly formed cigarette will be

ejected when the apron is rolled up to the proper extent.

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

5 1. A cigarette making device, comprising a trough-like container, a cover for said container pivotally secured thereto, the pivot of said cover extending along the end of said  
10 container and serving as a pawl, a roller extending lengthwise through said container, a ratchet wheel on said roller with which said pawl engages, and a rolling apron secured to said roller.

15 2. A cigarette making device, comprising a trough-like container having a bot-

tom wall, a front wall, a rear wall, and end walls, a cover for the upper end of said trough-like container, a roller extending through said container, a ratchet wheel secured to said roller and positioned outside 20 one of said end walls, a pivot for pivotally connecting said cover to the upper edge of said rear wall and having a right-angled projection extending along said last-men-  
25 tioned end wall, said extension serving as a pawl and being adapted to co-act with said ratchet wheel, and a rolling apron having one end thereof secured to said roller.

In testimony whereof I affix my signature.  
CHARLES H. POHLE.