Jan. 20, 1953 W. E. SPERRY 2,625,937

COMBINATION TOBACCO HOLDER AND CIGARETTE MAKER

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Fig 3

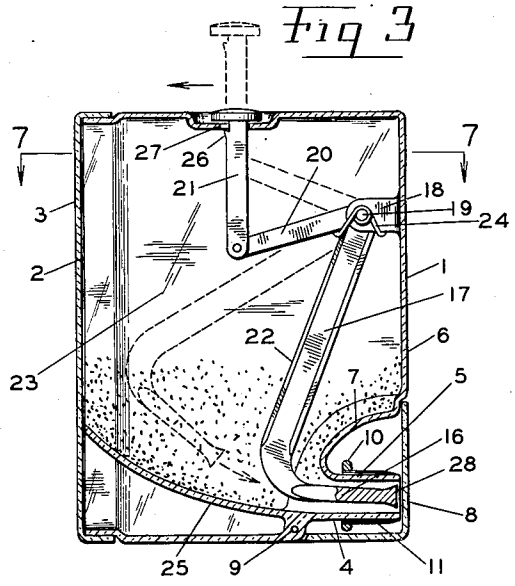


Fig 1

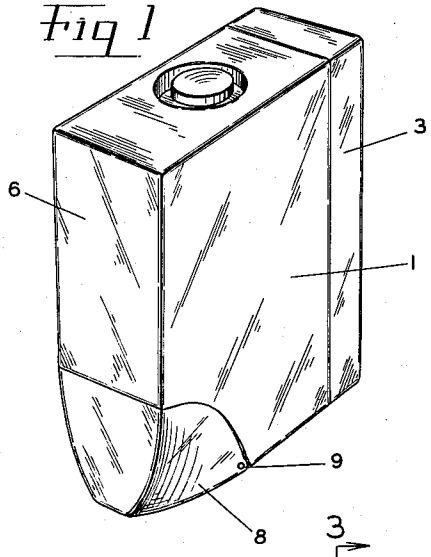
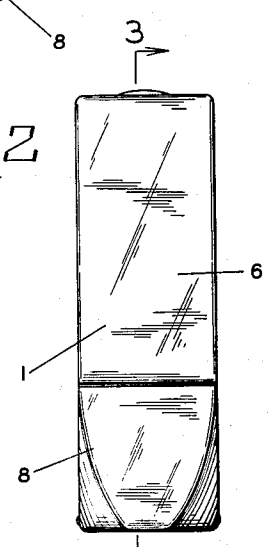


Fig 2



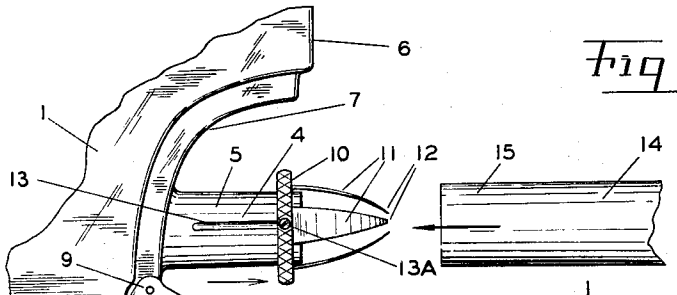
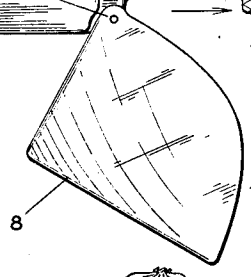


Fig 4



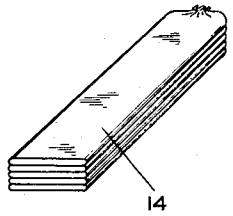


Fig 6

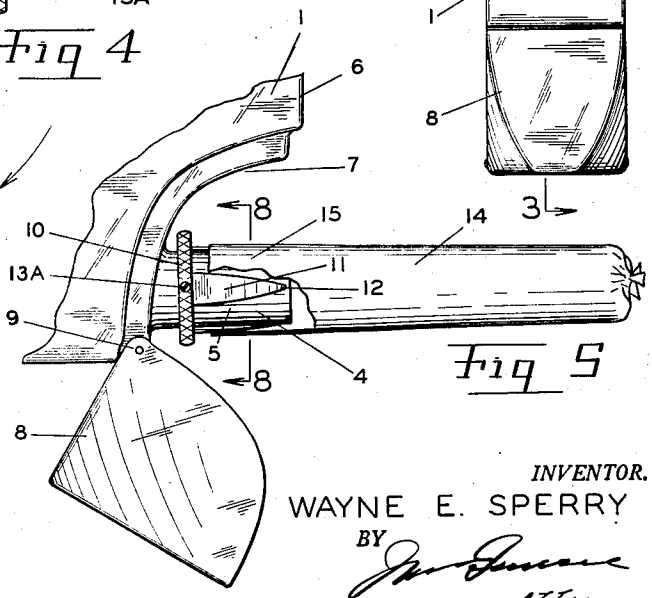


Fig 5

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Fig. 9

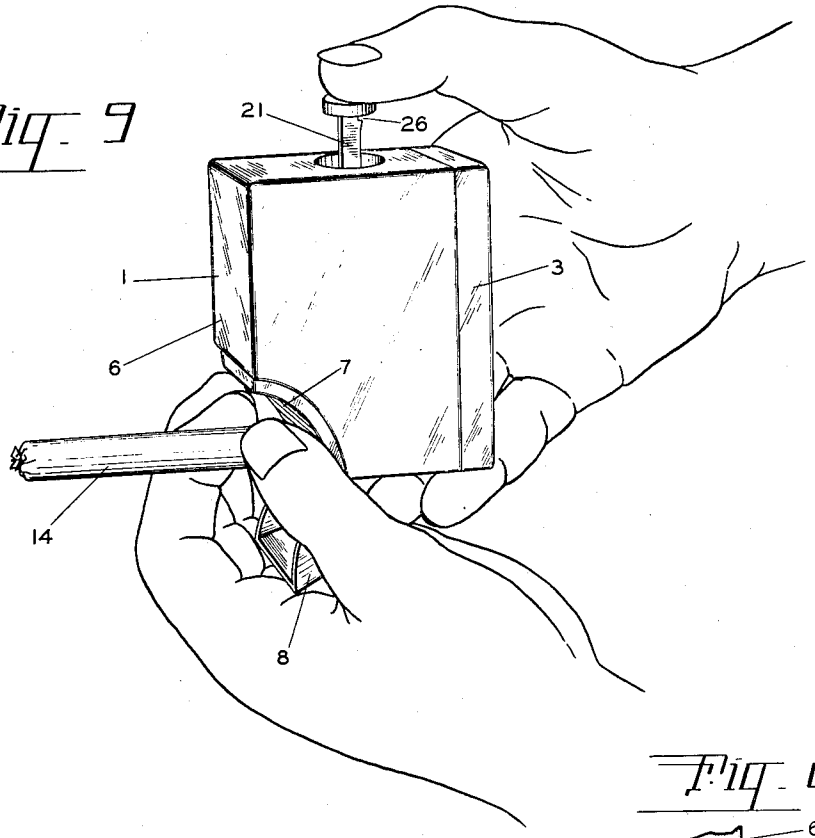
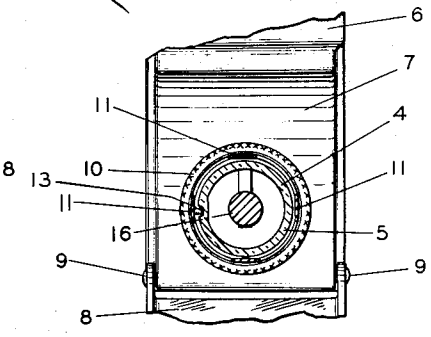


Fig. 8



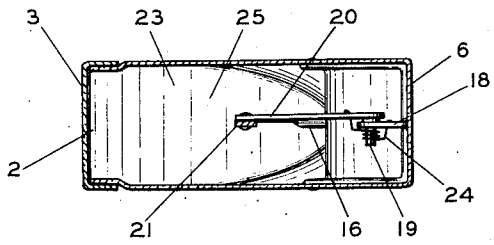


Fig. 7

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COMBINATION TOBACCO HOLDER AND CIGARETTE MAKER

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Application March 2, 1950, Serial No. 147,280

1 Claim. (Cl. 131—75)

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This invention relates to combination tobacco holder and cigarette makers, and it is primarily adapted to filling and forming cigarettes as they are used.

The primary object of the invention is to make a cigarette filling device that will make a cigarette from the tobacco contained in the device.

In the carrying out of this object, the cigarette papers are preformed into tubes that are adapted to work in connection with my filler in the making of a cigarette.

A special constructed cigarette paper in the form of a tube is placed over a filling nozzle of my filler and the tobacco forced into the tube to any desired firmness. The control of firmness is one of the outstanding features of my new and improved cigarette maker.

These and other incidental objects will be apparent in the drawings, specification and claim.

Referring to the drawings:

Figure 1 is a perspective view of my new and improved combination tobacco holder and cigarette maker.

Figure 2 is a front elevation of Figure 1.

Figure 3 is a side sectional elevation, taken on line 3—3 of Figure 2.

Figure 4 is an enlarged fragmentary detail illustrating the filling nozzle in position to receive the tubular formed cigarette paper.

Figure 5 is the same as Figure 4, except that the paper has been inserted on the nozzle and is being held thereto by a special threading and holding feature.

Figure 6 illustrates how the cigarettes would pack one above the other before filling.

Figure 7 is a plan sectional view taken on line 7—7 of Figure 3.

Figure 8 is a front sectional view taken on line 8—8 of Figure 5 through the filling nozzle.

Figure 9 is a perspective view of my combination tobacco container and cigarette making device being operated by the operator.

Referring more specifically to the drawings:

My new and improved combination tobacco holder and cigarette maker consists of a case 1, having a side opening 2 with a lid 3 provided for covering the same. A tobacco dispensing nozzle assembly 4 is located adjacent the bottom of the container 1 and consists of a nozzle 5 extending from the main body of the container, best illustrated in Figures 3, 4, 5 and 8.

The end wall 6 of the case 1 is recessed at 7 to provide space for the nozzle assembly 4 within the confines of the case. A closure 8 is pivotally mounted at 9 and is adapted to encase the nozzle

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assembly while the same is not in use. A ring 10 encircles the nozzle 5 and has fingers 11 extending therefrom parallel to the nozzle 5. These fingers are made of spring material tending to come together at their tips 12 when the ring 10 is forced by the fingers of the operator to the position shown in Figure 4. The ring 10 is prevented from slipping over the end of the nozzle 5 by the action of the keyway 13 formed in the nozzle, and terminates short of the end of the nozzle. A pin 13A is threaded into the ring 10 and is slidable in the keyway 13, as best illustrated in Figures 4 and 8.

The cigarette papers 14 come in the form of tubes, which may be stacked upon one another, as indicated in Figure 6, then opened up as illustrated in Figures 4 and 5, the open end 15 of the cigarette paper tube being placed over the fingers 11. The ring 10 is then pulled back as illustrated in Figure 5, which will allow the fingers to expand over the nozzle within the end 15 of the cigarette. This expansion is such as to somewhat expand the tip of the end of the cigarette. The thumb and forefinger of the operator is then slipped down over the end 15 and around the nozzle, which will hold the cigarette tube firmly in place during the filling operation.

A plunger 16 forms part of one arm of a bell-crank lever 17, referring to Figures 3, 7 and 8. The lever 17 is pivotally mounted to the bracket 18 by the cross pin 19. The other arm 20 of the lever 17 is operated by a manually operable push rod 21. The lever 17 and the push rod 21 are preferably made from flat material and have their edges preferably sharpened at 22, the object of which is to permit said parts to easily work within the tobacco that is contained within the compartment 23 of the box 1.

A spring 24 forces the lever 17 to retract the plunger 16 and expell the push rod 21, as shown in broken lines in Fig. 3, but when the push rod 21 is forced down by the thumb of the operator the plunger 16 will carry tobacco with the same over the baffle plate 25 into the nozzle assembly 4, forcing the same out the end of the nozzle and into the cigarette paper 14.

The push rod 21 is pumped up and down by the thumb of the operator until the cigarette has been filled with tobacco, the operator holding his forefinger and thumb outside of the end 15 of the cigarette, resisting the tendency of the plunger to push the cigarette off of the nozzle assembly 4. The amount of pressure he applies to the nozzle assembly will determine the firmness of

the finished cigarette, which is the outstanding feature of my invention.

As the push rod 21 is operated, moving the lever from the dotted to the full line position, the tobacco within the case 1 is fed down into the nozzle assembly, continually supplying the same with tobacco. When the last stroke of the push rod takes place the operator pulls the push rod 21 in the direction of the arrow (Fig. 3), engaging the notch 26 of the said plunger with the edge 27 of the top of the box which holds the plunger 21 in the position illustrated in Figure 3. The tip 28 of the plunger 16 provides a gate for the end of the nozzle 5, preventing the tobacco from coming out of the nozzle when the same is not in use as indicated.

When my new and improved tobacco holder and cigarette making device is not in use the cover 8 is in the position indicated in Figures 1, 2 and 3 enclosing the nozzle assembly. The ring 10 being withdrawn to the position best illustrated in Figures 3 and 5.

When the same is to be used, the lid 8 is opened as shown in Figures 4, 5 and 8. The operator touches the ring 10 with his forefinger and thumb and the inward tension of the fingers 11 cause the same to snap over the end of the nozzle 5 to the position illustrated in Figure 4 ready to receive the end 15 of the cigarette paper 14, and as stated above when the end is inserted over the fingers 11, the ring is withdrawn by the operator to the position illustrated in Figure 5, expanding the fingers and pulling the end 15 of the cigarette over the tip of the nozzle 5 ready for filling.

Although certain specific embodiments of the invention have been shown and described, it is obvious that many modifications thereof are possible. The invention, therefore, is not to be restricted except in so far as is necessitated by the prior art and by the spirit of the appended claim.

What I claim is:

In a cigarette maker comprising a casing for containing tobacco and having a protruding nozzle for receiving a cigarette tube, and plunger means in said casing and movable through said nozzle to push tobacco from said casing into the cigarette tube, the improvement in said plunger means comprising a Z-shaped bell crank lever pivotally mounted to said casing at one of its angles between one crank arm and the intermediate branch of said lever with the free arm carried by said branch in alignment with and forming a plunger for said nozzle, said intermediate branch having beveled edges to facilitate passage through tobacco in said casing, a spring between said lever and said casing and biasing said lever to retract said plunger arm from said nozzle, a manually operable push rod pivotally connected to said first mentioned crank arm and extending through an aperture in said casing, and a lug on said push rod adjacent the outer free end thereof for engaging the edge of said casing at said aperture to hold said lever in opposition to said spring with said plunger in and closing said nozzle.

WAYNE E. SPERRY.

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