May 2, 1933. N. ARVIDSSON 1,906,945

AUTOMATIC CIGARETTE DISPENSER AND LIGHTER

Filed Oct. 23, 1929

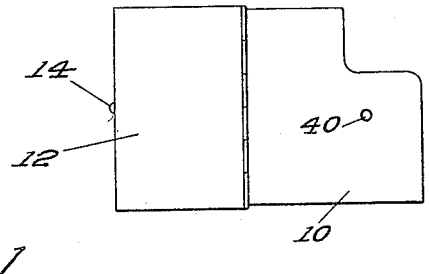


FIG. 1

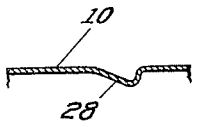


FIG. 4

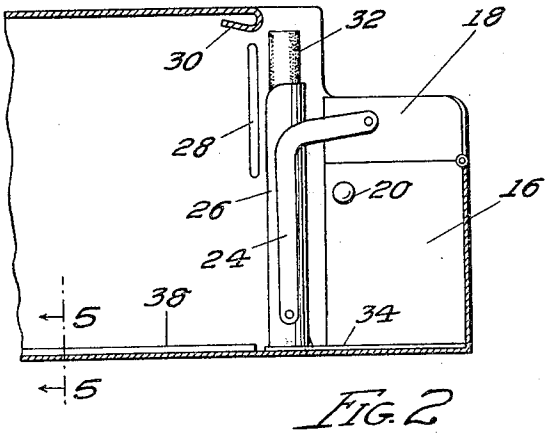


FIG. 2

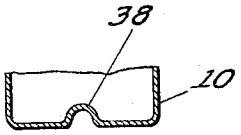


FIG. 5

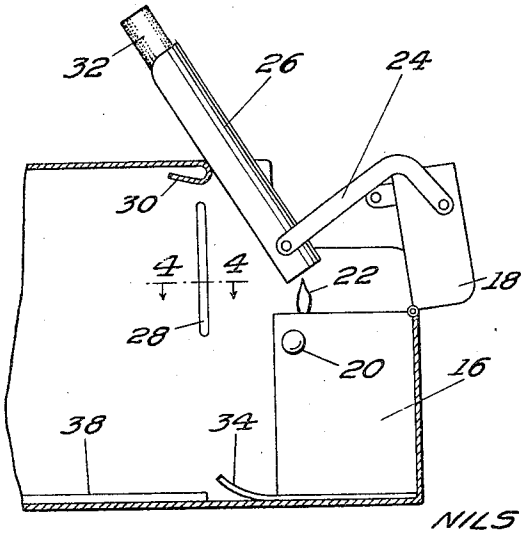


FIG. 3

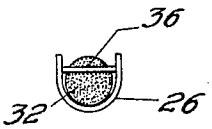


FIG. 6

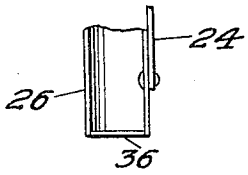


FIG. 7

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UNITED STATES PATENT OFFICE

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AUTOMATIC CIGARETTE DISPENSER AND LIGHTER

Application filed October 23, 1929. Serial No. 401,656.

This invention relates to an improved automatic cigarette dispenser and lighter and has for one of its principal objects the provision of a device which will automatically and simultaneously dispense and light a cigarette.

One of the important objects of this invention is to provide in combination with a cigarette lighter of the self-lighting type now in use a containing and dispensing means for cigarettes which shall be compact and readily operated, and not likely to get out of order.

Another important object of this invention is the provision of an automatic cigarette dispenser and lighter which by using the outwardly impelled spring-operated cover of an ordinary cigarette lighter as a source of power will automatically light and dispense a cigarette in position for smoking with a simple single pressure of the thumb.

Other and further important objects of the invention will be apparent from the disclosures in the accompanying drawing and following specification.

The invention, in a preferred form, is illustrated in the drawing and hereinafter more fully described.

In the drawing:

Figure 1 is a side elevation of the improved combination automatic cigarette dispenser and lighter of this invention.

Figure 2 is a side elevation of the interior thereof showing the same in closed position.

Figure 3 is a similar side elevation showing the device in cigarette dispensing and lighting position.

Figure 4 is a detail sectional view taken on the line 4—4 of Figure 3, looking in the direction indicated by the arrows.

Figure 5 is a sectional view taken on the line 5—5 of Figure 2.

Figure 6 is a detail end view of the cigarette dispensing tube showing a cigarette in position therein.

Figure 7 is a sectional view of the end of this tube showing its connection to the operating arm.

As shown in the drawing:

The reference numeral 10 indicates generally the casing of the improved automatic cigarette dispenser and lighter of this invention, the same being provided with a hinged cover 12 whereby a plurality of cigarettes may be inserted into the casing in a position transverse to the length thereof, and the lid is then locked in closed position by means of a snap lock or the like 14.

In the forward end of the casing adjacent the cut-away portion is positioned an ordinary cigar or cigarette lighter 16 of one of the common types now on the market, the same having a hinged cover 18 which is adapted to be automatically thrown open by a spring construction upon release of a latch positioned at 20. As is well-known, the opening of the lid 18 automatically lights a wick at the point 22.

Affixed to the lid 18 is an L-shaped arm 24, the longer end of which is pivotally attached to the lower end of a cigarette dispensing tube 26, the tube being open on one side as shown in Figure 6 so as to receive a cigarette from the container portion of the casing, the cigarette being adapted to be delivered to the tube 26 by gravity when the casing is held accordingly and shaken slightly. Stops 28 and 30 are provided to prevent the cigarette 32 from falling out of the tube 26, the stop 28 being in the nature of an inwardly struck portion of the wall of the casing 10 as shown in Figure 4, and the stop 30 being merely the pointed and inwardly turned end of one of the side walls of the casing, this inward turning likewise providing an opening through which the tube 26 is projected upon operation of the device as shown in Figure 3.

Another stop 34 is provided in the bottom of the casing, this being in the nature of a leaf spring the end of which is normally impelled upwardly when the device is in dispensing position, thereby preventing another cigarette from dropping into the space usually occupied by the tube 26. This also accelerates the operation of the apparatus.

The lower end of the tube 26 is provided with a cross bar 36 which supports the ciga-

rette 32 in dispensing position without interfering with the lighting thereof by means of the frame at the point 22, and in order to insure that the end of the cigarette will ride over this cross bar 36, the bottom of the casing 10 is provided with a longitudinally extending integral ledge 38 which is slightly higher than the end of the leaf spring 34 when the same is in flat position as best shown in Figure 2.

Any suitable release means in the form of a push button of the like 40 may be provided for co-operation with the latch 20 in the lighter 16 whereby the lid 18 is released, and as these lighters have springs in their lids to retain the same in open position, the tube 26 with the contained cigarette will be positively maintained in the position shown in Figure 3.

It will be seen that herein is provided a simple yet efficient combination cigarette case, dispenser and lighter which can be operated with one hand, the dispensed cigarette being in a position to be immediately placed between the lips of the user, and the lighting thereof being assured.

I am aware that many changes may be made and numerous details of construction varied throughout a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon otherwise than as necessitated by the prior art.

I claim as my invention:

1. An automatic combined cigarette container, dispenser, and lighter, the lighter cover comprising a spring-opened lid, and cigarette dispensing means pivotally attached to said lid, said means comprising a tube open at one side for the reception of a cigarette and a cross bar at the end of the tube for supporting the cigarette in dispensing position.

2. An automatic combined cigarette container, dispenser, and lighter, the lighter cover comprising a spring-opened lid, and cigarette dispensing means pivotally attached to said lid, said means comprising a tube open at one side for the reception of a cigarette and a cross bar at the end of the tube for supporting the cigarette in dispensing position, and in position for lighting.

3. An automatic combined cigarette container, dispenser, and lighter, the lighter cover comprising a spring-opened lid, and cigarette dispensing means pivotally attached to said lid, said means comprising a tube open at one side for the reception of a cigarette and a cross bar at the end of the tube for supporting the cigarette in dispensing position, and stop means in the container adjacent the dispensing tube for retaining the cigarette in position.

4. An automatic combined cigarette container, dispenser and lighter, the lighter cover comprising a spring-opened lid, and cigarette dispensing means pivotally attached to said lid, said means comprising a tube open at one side for the reception of a cigarette and a cross bar at the end of the tube for supporting the cigarette in dispensing position, and stop means in the container adjacent the dispensing tube for retaining the cigarette in position, and additional stop means for preventing the ingress of another cigarette into the space usually occupied by the dispensing tube.

5. An automatic combined cigarette container, dispenser, and lighter, the lighter cover comprising a spring-opened lid, and cigarette dispensing means pivotally attached to said lid, said means comprising a tube open at one side for the reception of a cigarette and a cross bar at the end of the tube for supporting the cigarette in dispensing position, and stop means in the container adjacent the dispensing tube for retaining the cigarette in position, and additional stop means for preventing the ingress of another cigarette into the space usually occupied by the dispensing tube, said last-named stop means comprising a leaf spring positioned adjacent the arm of the tube when in closed position, and further acting as an additional force to impel the tube into dispensing position.

In testimony whereof I affix my signature.

NILS ARVIDSSON.