Dec. 19, 1950 E. R. SCHWINN 2,534,799

SMOKING DEVICE

Filed Jan. 18, 1946

Fig. 1

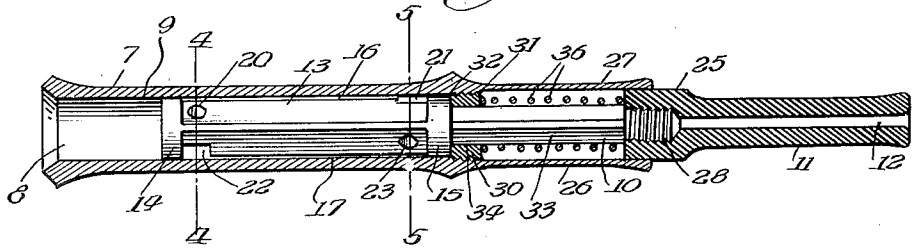


Fig. 2

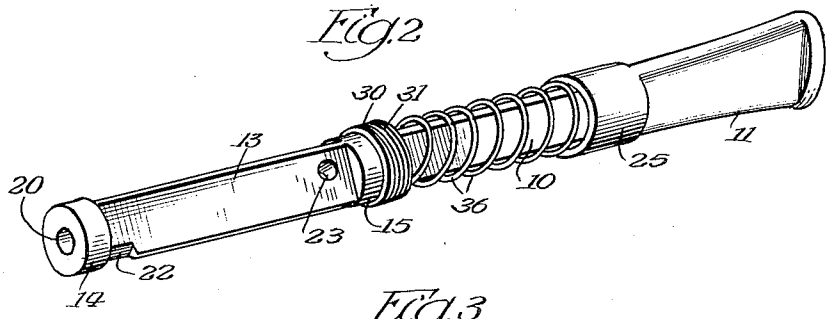


Fig. 3

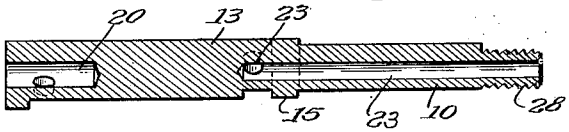


Fig. 4

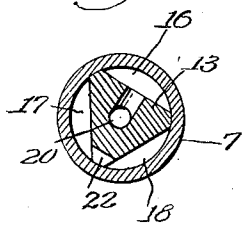


Fig. 5

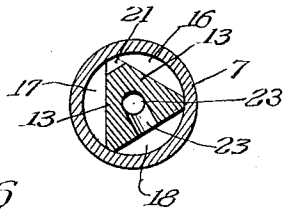
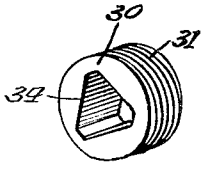


Fig. 6



INVENTOR.
Elmer R. Schwinn
BY
Fred Gerlach
his Atty.

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SMOKING DEVICE

Elmer R. Schwinn, Chicago, Ill.

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2 Claims. (Cl. 131—182)

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The invention relates to smoking devices or holders for cigarettes or cigars.

One object of the invention is to provide a cigarette or cigar holder which is provided with efficient means for retaining the tobacco juices and condensate from the smoke in the holder to prevent them from reaching the mouthpiece, and includes a tubular casing and a core which is slidably mounted in the casing and serves when slid in one direction to eject the cigarette or cigar.

Another object of the invention is to provide a holder of this type in which the assembled core and mouthpiece are slidably retained in the tubular casing for conjoint removal for cleaning purposes.

Another object of the invention is to provide a holder of the ejector type which is efficient in use and can be fabricated at a low cost.

Other objects of the invention and the various advantages and characteristics of the present holder will appear from the following detailed description.

The invention consists in the several features which are hereinafter set forth and are more particularly defined by claims at the conclusion hereof.

In the drawing:

Fig. 1 is an enlarged longitudinal section of a holder embodying the invention, the core being shown in elevation.

Fig. 2 is a perspective showing the assembled core and mouthpiece and the screw collar for slidably retaining the latter in the tubular casing, separated from the casing for cleaning.

Fig. 3 is a longitudinal section of the core.

Fig. 4 is a section taken on line 4—4 of Fig. 1.

Fig. 5 is a section taken on line 5—5 of Fig. 1.

Fig. 6 is a perspective of the screw-collar for slidably retaining the core with the mouthpiece attached in the tubular casing.

The invention is exemplified in a holder which comprises a tubular casing 7, having its end 8 adapted to receive the tip of a cigarette; and a core, generally designated 13, slidably fitting in and rotatable in the bore 9 of the casing, and provided with an integral stem 10 to which is attached a mouthpiece 11 with a draft-duct 12.

The core 13 is provided with a cylindrical outer end 14 and a cylindrical inner end 15 which slidably and rotatably fit within the bore 9 of the casing 7. Between these cylindrical ends, the core is substantially triangular in cross-section in order to provide three flat sides which form three transversely separated chambers 16, 17 and 18. The

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latter are segmental in cross-section and extend longitudinally between the cylindrical ends 14 and 15. The core 13 is provided at its outer end 14 with an angular or L-shaped duct 20 which communicates with the portion of the bore 9 in which the cigarette is held and the chamber 16 between the core and the casing. A notch 21 adjacent the cylindrical inner end 15 of the core forms a passage between chambers 16 and 17; and a notch 22 adjacent the cylindrical outer end 14 of the core forms a passage between chambers 17 and 18. A duct 23 communicates with chamber 18, extends longitudinally to the inner end of the stem 10 on the core 13, and communicates with the draft-duct 12 in the mouthpiece 11.

The mouthpiece 11 is provided at the end thereof that is nearer the casing 7 with a cylindrical portion 25 which slidably and rotatably fits in cylindrical bore 26. The latter is formed in an integral longitudinal extension 27 of the casing. The stem 10 on core 13 is secured to the mouthpiece 11 by a screw-thread connection 28. The mouthpiece 11 is adapted slidably to shift the core 13 in bore 9 of casing 7 and also to rotate the stem 10 and core 13. The cylindrical portion 25 of mouthpiece 11 is guided in the bore 26 for this purpose.

The core 13 and stem 10 are held for limited sliding movement in the casing 7 and extension 27 by a collar 30 which is provided with a male screw-thread 31 for engaging a female screw-thread in the central portion of the casing. The collar 30 seats against a shoulder 32. The stem 10 on the core 13 is triangular in cross-section, as at 33, and extends through a correspondingly shaped opening 34 in collar 30. Because of this the stem is permitted to slide through the collar and when slid forwards it releases or ejects the cigarette. Because the stem is triangular rotation of the mouthpiece 11 in one direction serves to unscrew the collar and thus release the core 13 and mouthpiece 11 for removal from the casing. A coil spring 36 in extension 27 of casing 7 is interposed between the collar 30 and the inner end of mouthpiece 11 and yieldingly holds the mouthpiece and core in their retracted position in the casing.

The operation of the device will be as follows: when the device is assembled and a cigarette is held in the outer end of the casing 7, the draft applied to the duct 12 in mouthpiece 11 will draw the smoke successively through duct 20 into chamber 16, longitudinally through chamber 16, through notch 21, longitudinally through cham-

ber 17, through notch 22, and longitudinally through chamber 18, and into duct 23, which communicates with the draft-duct 12. This sinuous path of the smoke will cause the tobacco juices and the condensate from the smoke to be retained in the chambers between the core and the casing. When it is desired to eject the cigarette, the mouthpiece 11 is pushed forwards while the casing is held, and end 14 of the core 13 will then eject the cigarette from the casing 7. After this ejection, the mouthpiece will be released and spring 36 will retract the core 13 and mouthpiece 11 to their normal position. When it is desired to clean the device and remove the accumulated juices and condensate in the bore 9, the casing 7 and the core 13, the user will rotate the mouthpiece 11 and the attached stem 10 which rotates therewith, so that said stem will rotate collar 30 and unscrew it from the casing until it is free, so it will permit the core 13, collar 30, spring 36 and mouthpiece 11 to be withdrawn from the casing. The core and mouthpiece may remain assembled after removal from the casing, as shown in Fig. 2. The core 13 and the bore 9 of the casing 7 may be easily cleaned. After being cleaned, the core 13 will then be inserted through extension 27 into the bore 9 of the casing 7 and the mouthpiece 11 will be inserted in extension 27 until collar 30 meets the screw-thread in the casing. The mouthpiece will then be rotated in the proper direction to cause collar 30 to become connected to the screw-thread and seated against shoulder 32. The core and mouthpiece will then be restored to their operative relation to the casing.

In practice the mouthpiece may be formed of any suitable material and the casing and core may be formed of metal, such as aluminum. The screw-thread 28 between mouthpiece 11 and stem 10 permits the collar 30 and spring 36 to be assembled with the core 13 and mouthpiece 11.

The construction described exemplifies a holder in which the mouthpiece, stem and core are slidably mounted in the casing for removal of the cigarette and the tobacco juices and the condensate from the smoke are entrapped in the chambers between the core and the casing. It also exemplifies a holder wherein rotation of the mouthpiece effects either connection or disconnection of the core and mouthpiece with respect to the casing.

While the holder has been described more particularly for a cigarette, it will be understood that it may also be used for smoking cigars, without change in construction other than the shaping of the holding end of the casing.

The invention is not to be understood as limited to the details described, since these may be modified within the scope of the appended claims without departing from the spirit and scope of the invention.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:

1. A smoking device comprising a tubular casing having one of its ends adapted to hold an article for smoking, a core extending longitudinally of, and slidable and rotatable in the casing, adapted when slid in the direction of said one

end of the casing to eject the article from the casing, and provided at one of its ends with an inlet-duct for smoke, at its other end with an outlet-duct and with means between said ends and independent of the ducts for retaining tobacco juice and condensate from the smoke within the casing, a mouthpiece disposed normally at the other end of the casing, connected to the core for sliding and rotative movement therewith, and provided with a draft-duct communicatively connected to receive smoke from the outlet-duct in the core, and a collar extending around and serving to support the core and connected by a screw-thread connection to the interior of the casing, the core being non-circular in cross section and the collar having its interior of corresponding cross section in order that turning of the core by the mouthpiece causes connection or disconnection of the collar with respect to the casing.

2. A smoking device comprising a tubular casing having one end thereof adapted to hold an article for smoking and embodying at its other end an integral extension, a core extending longitudinally of, and slidable and rotatable in the casing, adapted when slid in the direction of said one end of the casing to eject the article therefrom, and provided at one of its ends with an inlet-duct for smoke, at its other end with an outlet-duct and with means between the said ends for directing the smoke longitudinally back and forth and retaining tobacco juice and condensate from the smoke within the casing, a mouthpiece having its inner end slidable and rotatable in said extension and provided with a draft-duct, a stem of polygonal cross section connected fixedly to the end of the core that is opposite the mouthpiece, removably and rotatably connected to the mouthpiece, and provided with a duct communicating with the outlet-duct in the core and the draft-duct in the mouthpiece, a retaining collar extending around and serving slidably to support the stem, connected to the casing by a screw-thread connection, and adapted in response to turning of the stem by the mouthpiece to be brought into connected or disconnected relation with the casing, and a spring in the extension between the collar and the mouthpiece for retracting the mouthpiece and the stem-equipped core, the collar, core, stem, spring and mouthpiece being conjointly and slidably removable when the collar is disconnected from said screw-thread.

ELMER R. SCHWINN.

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