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G. HENNINGS

2,220,449

CIGARETTE AND CIGAR HOLDER

Filed Feb. 9, 1939

Fig. 1

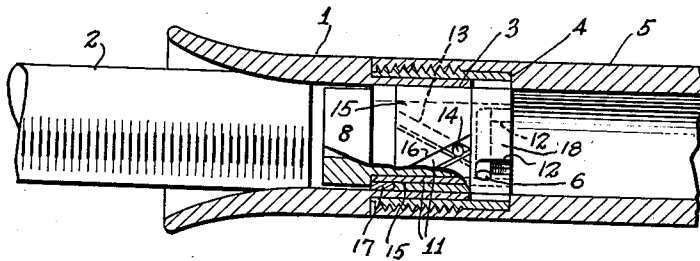


Fig. 2

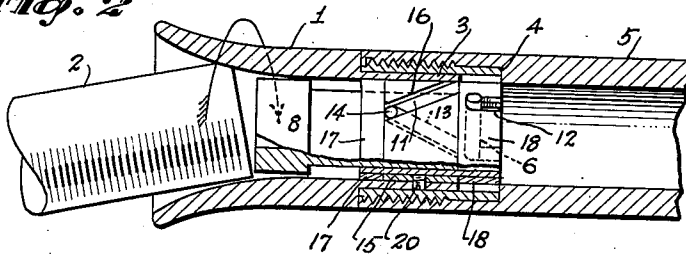


Fig. 3

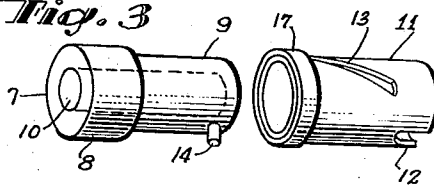


Fig. 4 Fig. 5

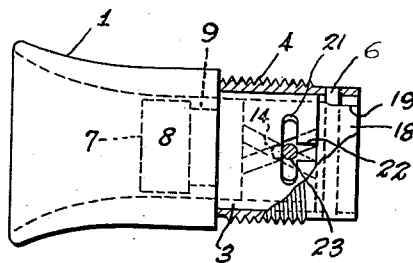
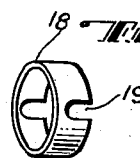


Fig. 7

Fig. 6



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CIGARETTE AND CIGAR HOLDER

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Application February 9, 1939, Serial No. 255,370

1 Claim. (Cl. 131—182)

This invention is a cigarette or cigar holder and is primarily directed to improvements on the invention of my prior application Serial No. 245,423, filed December 13, 1938, which issued as Patent No. 2,149,523 on March 7, 1939. The said prior invention embodies a cigarette holder comprising a bit having a hollow tip adapted to support a cigarette and provided therein with an ejector plunger adapted, through relative rotation between the bit and the tip, to be moved axially for the purpose of ejecting a cigarette. The rotary movement between the tip and bit is imparted to the ejector by relative rotation of coaxial tubes provided with right and left hand slots acting upon a pin carried by the ejector plunger and these tubes are contained within the shank of the tip which projects into the bit. The shank of the bit has a sliding fit with the bit so that it can be readily inserted into and removed therefrom. This constitutes a convenient form of assembly and is thoroughly practical. Certain users, however, prefer to have the shank of the tip locked to the bit, so that these parts cannot be inadvertently separated and the object of the present invention is to provide a convenient locking or securing means to accomplish this purpose but to permit of detachment or separation of the parts when this is desired.

According to the present invention, in its preferred practical form, the shank of the tip is provided with a circumferentially disposed locking slot extending for a portion of the circumference of such shank and spaced from the free end of the latter and intermediate the ends of said locking slot is an entrance slot extending therefrom to the free end of the shank. With these slots is adapted to cooperate a locking pin, carried by the bit or by a bushing with which said bit may be provided and this pin is adapted to be passed through the entrance slot into the locking slot to engage with the latter when the bit and tip are relatively rotated. The locking slot is of such length as not to interfere with such relative rotation of the parts as is necessary for the proper functioning of the ejector and the entrance slot is so located that the locking pin can enter into or leave the locking slot only when the ejector plunger is in an intermediate position. In other words, when the ejector plunger is in either fully retracted or in fully advanced position, the locking pin and locking slot serve to lock the tip to the bit and it can only be removed in the intermediate position of which it does not normally partake except in a transitory state. Consequently the parts are normally locked to-

gether but may be assembled or dismantled at the will of the operator.

Features of the invention, other than those adverted to, will be apparent from the hereinafter detailed description and claim, when read in conjunction with the accompanying drawing.

The accompanying drawing illustrates one practical embodiment of the invention, but the construction therein shown is to be understood as illustrative, only, and not as defining the limits of the invention.

Figure 1 is a longitudinal central section through a cigarette holder embodying the present invention with certain elements of this construction shown partly in elevation, in the interest of clearness. In this view the plunger is shown retracted, with a cigarette in normal smoking position in the tip.

Figure 2 is a view similar to Figure 1, but showing the cigarette as ejected and with the plunger in forward position.

Figures 3, 4, 5 and 6 are perspective views showing various parts of the structure dismantled.

Figure 7 is an elevation of the tip removed from the bit, but associated with the tip bushing which in this view is shown partly in section and partly in elevation.

Referring to the drawing, 1 indicates the cigarette holding tip of substantially tubular form and flared at its outer end to permit a cigarette to be readily introduced therein. The rear portion of the tip is in the form of a reduced section 3, adapted to be rotatably received with a snug, removable fit into the interior of a bushing 4 to which it is locked against inadvertent separation in a manner hereinafter described in detail. This bushing is externally threaded to screw into internal threads formed, either directly in the bit of the holder, or in an intermediate filter holding section 5. The bushing 4 is adapted to remain immovable within the section 5 and the threads may be cut to provide for this without further means, although, if desired, the forward end of the section 5 may be spun or swedged to lock the bushing 4 in place. The bushing carries adjacent its inner end a transverse or diametrically disposed rod 6, rigidly supported in the bushing and fixed with respect to the section 5 when the bushing is associated therewith.

Mounted for rectilinear reciprocation within the tip 1, is an ejector plunger 7 provided with a head 8 and a reduced cylindrical shank 9, the diameter of which is appreciably less than the

internal diameter of the bore of the tip, so as to leave, between the shank 9 and the wall of the tip, sufficient space for the interposition of two tubular members. This plunger 7 has a smoke passage 10 therethrough as is usual.

Rotatably embracing the shank 9 of the plunger is a tube 11 shown in detail in Figure 4 and provided in its rear end with cut-outs or castellations 12, adapted to embrace the rod 6 of the bushing and form therewith a slip coupling. The tube 11 is provided intermediate its ends with a right hand helical slot 13 through which projects a pin 14, extending radially from and rigid with the shank 9 of the plunger.

Embracing the tube 11 is a sleeve 15, shown in detail in Figure 5, and in which is formed a left hand helical slot 16, also adapted to receive the pin 14 of the plunger. The sleeve 15 is somewhat shorter than the tube 11 and said sleeve is held upon the tube between collars 17 and 18, the latter of which is shown in detail in Figure 6. These collars are soldered, sweated or otherwise secured to the tube 11, after the sleeve 15 has been placed thereover and serve to retain the sleeve on the tube, while permitting of relative rotation between said sleeve and tube. It will be noted that the collar 18 has cut-outs or castellations 19 which correspond to and are registered with the cut-outs 12 of the tube 11 and this collar thus serves to reinforce the wall of the tube 11, which in practice is made quite thin, against undue wear of the bushing rod 6. The sleeve 15 is locked against rotation to the reduced portion 3 of the tip by means of a locking screw 20 shown best in Figures 1 and 2.

The parts, when assembled, appear as in these two latter figures, from which it will be seen that the bushing 4, its rod 6 and the tube 11 with its collars 17 and 18 are rigid with respect to the section 5. On the other hand, the sleeve 15 is rigid with the reduced extension 3 of the tip 1, while the plunger 7 is caused by none of these parts save through the pin 14 which extends through both the right hand and left hand helical slots 16 and 13.

With this arrangement it will be apparent that, if the tip is grasped in one hand and the section 5 in the other hand and these parts are rotated relative to one another, the plunger will be caused to reciprocate in a direction appropriate to the direction of relative rotation and in this way the plunger is caused to be retracted to the position shown in Figure 1 or advanced to the position shown in Figure 2. Figure 1 shows the position for smoking, while Figure 2 shows the position for ejecting a cigarette.

The employment of the bushing 4 has a pronounced advantage in a construction of this character for it permits any particular bit, with or without filter holding tube, to be immediately equipped with either an ejector tip or an ordinary tip by merely carrying in stock these two kinds of tip. If a person desires an ejector tip, one of the character hereinbefore described may be simply inserted into the bushing, whereas if the customer prefers a holder without an ejector, an ordinary tip having a tubular reduced section can simply be slipped into the bushing to meet the customer's requirements. This greatly economizes in the stock which a dealer is required to carry to meet the requirements of his customers and is important from a commercial standpoint.

As hereinbefore stated, the holder tip with its ejector mechanism may be associated either directly with a bit or with an interposed tubular

filter section, which two latter parts I shall refer to generally in the claims as the bit.

The structure thus far described has given highly satisfactory results and is thoroughly efficient in the ejection of cigarettes in a purely manual manner through rotation of the tip and the bit. However, it will be noted that the slip connection hereinbefore described between the shank 3 of the tip and the bushing 4 is such as to permit the tip to be withdrawn from the bushing at any time unless these parts are positively locked together and after the holder has been used for a time it may become loose so that these parts inadvertently separate.

It is the primary object of this invention to obviate this inconvenience by locking said parts together, so that they cannot inadvertently separate but can, nevertheless, be readily assembled and dismantled when it is desired to do so. A very practical way of accomplishing this result is shown in the drawings.

By reference particularly to Figure 7 it will be noted that the shank 3 of the tip is provided, in spaced relation to its free end, with a locking slot 21 which extends circumferentially of the shank for an appreciable distance and midway of its length is an entrance slot 22 which extends to the free end of the shank. Both of these slots may extend completely through the wall of the shank and are adapted for cooperation with a locking pin 23 supported by and projecting inwardly from the bushing 4, although if no bushing is used, this pin will be supported on and carried by the wall of the bit. This pin is so positioned with reference to the entrance slot 22 that it can only enter said slot when the ejector plunger 7 is in a position intermediate its termini illustrated in Figures 1 and 2, i. e., in the position shown in dotted lines in Figure 7. When in this intermediate position, the entrance slot 22 will be aligned with the locking pin 23, so that the shank of the tip can be withdrawn from or inserted into the bushing. When inserted into the bushing the locking pin 23 will pass through the entrance slot 22 into the locking slot 21, which extends circumferentially from both sides of the entrance slot and for a sufficient distance in both directions to permit of free rotation between the tip and bit as is necessary to normally actuate the plunger. In practice the locking pin 23 will occupy one end of the locking slot 21 when the ejector is in ejecting position and the opposite end of the locking slot when the ejector is in retracted position. Only in the intermediate position shown in Figure 7 is the locking pin 23 aligned with the entrance slot 22, so that the parts can be dismantled or assembled and it occupies this position only in a transitory way. In practice, the parts are seldom, if ever, left in this position in the normal use of the cigarette holder. It thus becomes apparent that, when the cigarette holder is in either of its normal conditions of smoking or of ejection the parts are firmly locked together and there is practically no possibility of the inadvertent separation of such parts.

The foregoing detailed description sets forth the present invention in its preferred, practical form, but the invention is to be understood as fully commensurate with the appended claim.

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

A cigarette or cigar holder comprising a hollow bit, a hollow tip rotatably telescoping into the bit, an ejector plunger mounted for axial recipro-

cation within the tip, operating connections between the tip, bit and plunger to reciprocate the plunger from its retracted to its ejecting positions, and vice versa, when the bit and tip are relatively rotated, there being formed in that 5 portion of the tip within the bit a circumferential locking slot with an entrance slot extending from midway of the length of the locking slot to the inner end of the tip, and a locking pin carried by the bit and projecting into the locking 10

slot and positioned at one terminus of the locking slot when the ejector plunger is retracted and at the other end of the locking slot when the ejector plunger is in fully ejecting position, said pin being shiftable by relative rotation between the tip and bit into an intermediate position to aline it with the entrance slot to permit the tip and bit to be removed from one another. 5

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