Aug. 19, 1952 G. R. WILSON 2,607,354

CIGARETTE HOLDER

Filed April 22, 1950

Fig. 1.

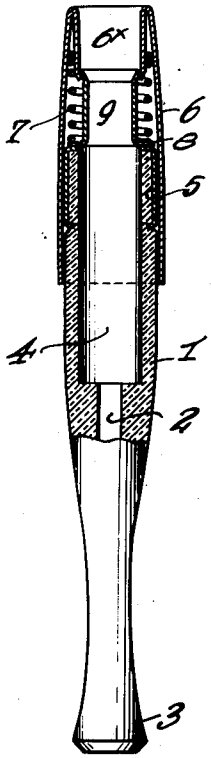



Fig. 2.

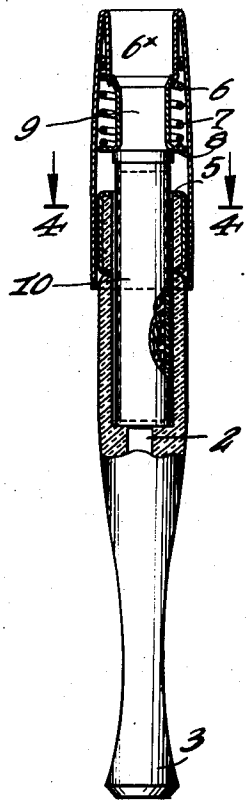



Fig. 3.

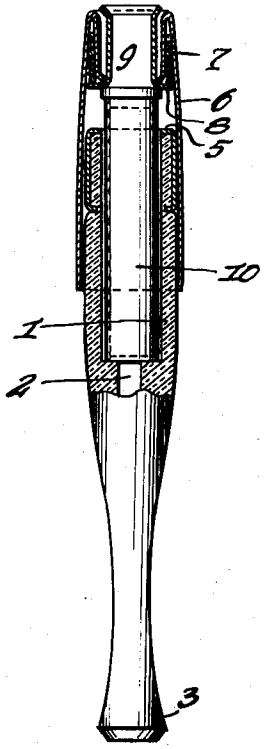



Fig. 5.

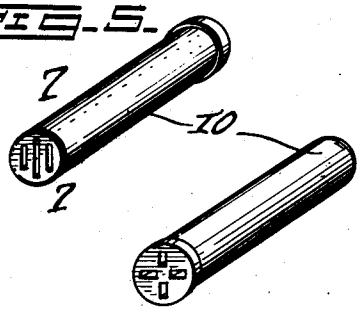



Fig. 6.

Fig. 7.

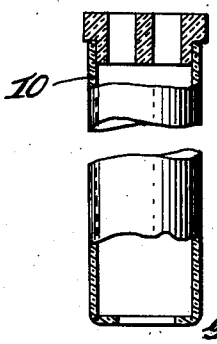
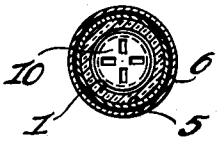



Fig. 4.




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# UNITED STATES PATENT OFFICE

2,607,354

## CIGARETTE HOLDER

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Application April 22, 1950, Serial No. 157,501

3 Claims. (Cl. 131—182)

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The object of the present invention is to provide a cigarette holder which will be provided with an ejecting assembly of such a nature as to eliminate the necessity for any external ejecting device, which will be very simple in form and operation, and also inexpensive to manufacture. In the embodiment illustrated and described, the holder is adapted to receive a cartridge holding an absorbent material.

The invention will be described in reference to the accompanying drawing in which

Fig. 1 is a view in elevation, partly broken away, showing an embodiment of the invention.

Fig. 2 is a view similar to Fig. 1 showing the said embodiment with a suitable form of cartridge therein, the holder being ready to receive the cigarette.

Fig. 3 is a view similar to Fig. 2 showing the position of the parts at the end of an ejecting movement.

Fig. 4 is a transverse section on the line 4—4, Fig. 2.

Fig. 5 is a perspective of a suitable kind of cartridge looking toward one end thereof.

Fig. 6 is a view similar to Fig. 5 looking at the opposite end of the cartridge.

Fig. 7 is an enlarged fragmentary view of a cartridge similar to that of Fig. 5, inverted and, partly in central longitudinal section.

Referring to the drawings, it will be noted that the holder comprises a stem 1, formed with a bore 2, the holder being formed with the mouth piece and shown at 3. The front end portion of the holder is formed with an enlarged bore at 4 for the reception of an absorbent cartridge.

Preferably the front end of the holder is provided with an external metallic friction ferrule 5.

Received upon friction ferrule 5 and thus held by such sliding fit as to withstand normal holding of the holder, is a cigarette receiving and ejecting member 6.

The cigarette receiving and ejecting member is preferably formed as a metallic cylinder of uniform internal diameter at that portion which will embrace the friction ferrule 5, thence inwardly tapering from such portion to its front end. The front end of the said cylinder is turned inwardly. By reason of the gradual tapering or funnelling and hence gradual reduction of diameter the said inturned end, 6x, will be spaced from the adjacent wall of the tapering portion and thus adapted to receive and hold a light spring 7.

Spring 7 bears upon the out-turned flange 8 of an ejector tube 9. At its front end the

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ejector tube 9 is flared outwardly so that spring 7 biases the tube 9 rearwardly in the element 6 so that 6x may be used as a cigarette receiving socket. The inter-engagement between the front flange of 9 and the rear flange of 6x limits the rearward movement of the tube 9, with respect to the sleeve 6, and also indicates the rearward displacement of the element 6 upon the mouthpiece, which may be executed before the spring 7 will be compressed and so, oppose further rearward movement of the elements 6, 7, 6x and 9 with respect to the mouthpiece. The elements 6, 7, 6x and 9 may be removed as a unit. In this manner the sliding movement of the sleeve 6 is limited. This movement, in an ejecting operation, is from the position of the elements shown in Fig. 2 to the position of the same elements shown in Fig. 3.

It will be understood that a cigarette held within the inturned end 6x of sleeve 6 will lie in register with the outwardly flanged end of ejector tube 9. Thus when sleeve 6 is pressed inwardly from the position of Fig. 2 to the position of Fig. 3, the cigarette will be ejected, and the release of sleeve 6 will enable spring 7 to return the elements 6, 7, 6x and 9 to the position of Fig. 1.

The present embodiment is adapted to receive an absorbent cartridge, in the enlarged bore 4 of holder 1.

The cartridge preferably is of that type which embodies a rigid plastic casing with apertured ends and holding an absorbent material, a suitable form being shown in Figs. 4 to 7 inclusively.

In commercial usage the cartridges may be made of transparent plastic and enclosing an absorbent material of that type which changes color when it approaches its maximum absorption and thus indicating that the cartridge should be replaced by a fresh cartridge.

In the form of the cartridge indicated at 10, each end is slotted for the passage of smoke from the cigarette, and the cartridge is shown as of a length greater than that of the cartridge receiving bore 4. Thus the cartridge may initially engage the ejector sleeve 9 and also the inner end of bore 4 so that a rearward movement of sleeve 6 will cause outward movement of ejector tube 9 by direct action of the cartridge itself.

Having described my invention, what I claim and desire to secure by Letters Patent, is as follows:

1. A cigarette holder comprising a mouthpiece, a sleeve slidably mounted on one end of

said mouthpiece and held in a stationary position thereon by friction, an ejector comprising a tube having a flange at one end adapted to engage one end of the mouthpiece, said ejector being positioned within the sleeve, a spring surrounding the ejector and engaging the flange at one end and the inner surface of the sleeve at the other end, said ejector being tapered outwardly at its opposite end and said sleeve being tapered inwardly at its free end, the tapers constituting stops to prevent movement of the ejector out of the end opposite from the tapered end of the sleeve.

2. The cigarette holder of claim 1 wherein said mouthpiece has a small bore abutting and in axial alignment with a large bore, said large bore being adapted to hold a filter cartridge.

3. The cigarette holder of claim 2 wherein the rear end of the ejector engages the front end of the filter cartridge.



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