

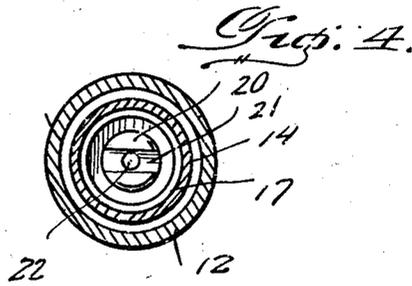
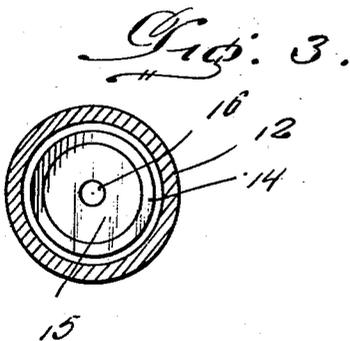
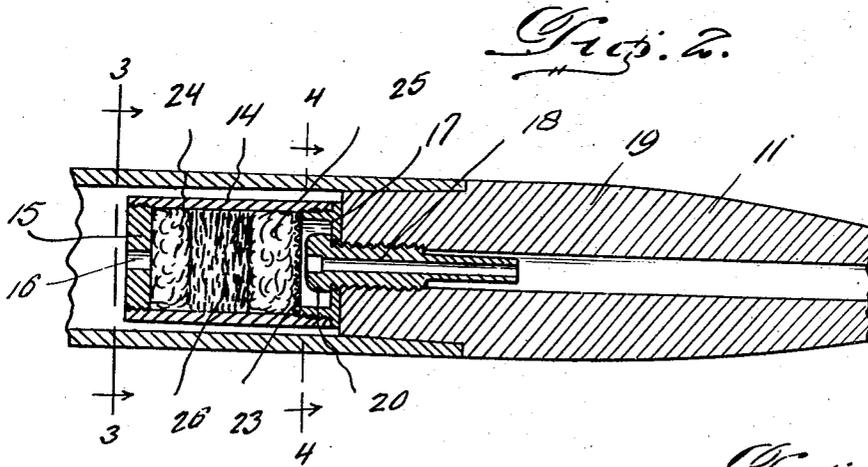
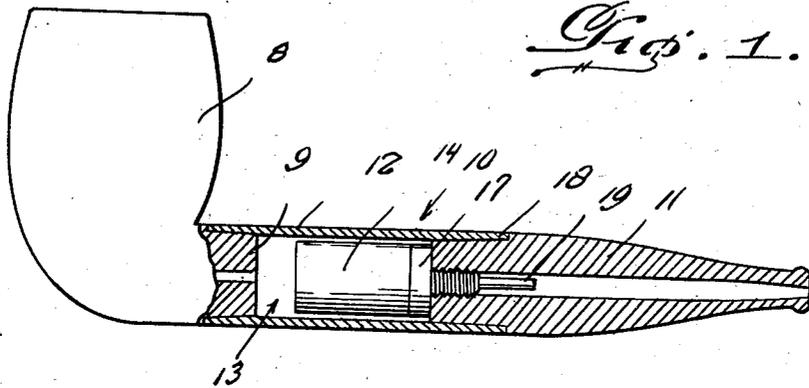
Jan. 14, 1930.

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SMOKER'S APPLIANCE

1,743,698

Filed Sept. 14, 1927

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 5.

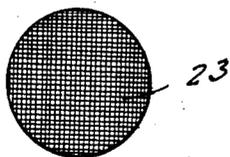


Fig. 6.

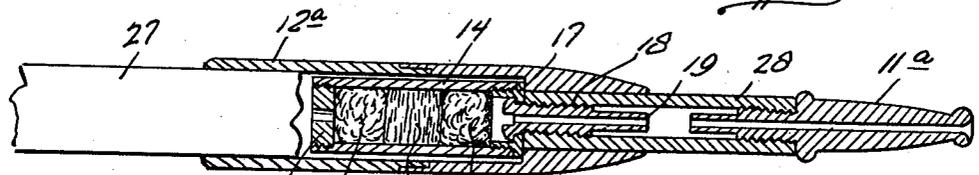


Fig. 7.

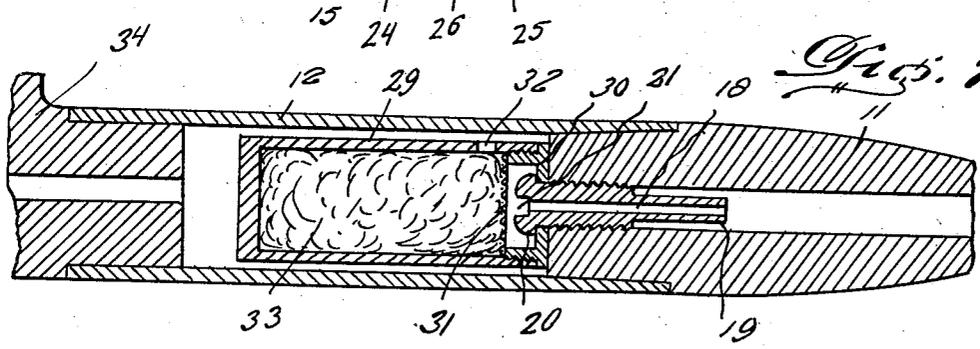
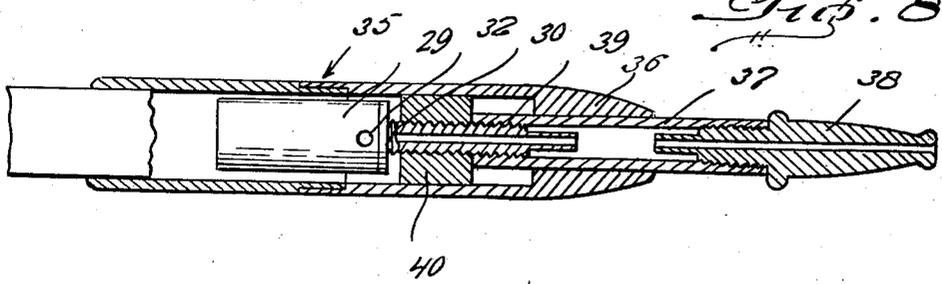


Fig. 8.



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SMOKER'S APPLIANCE

Application filed September 14, 1927. Serial No. 219,445.

This invention relates to what is broadly referred to as a smoker's appliance because of the fact that it has reference, in one instance, to an improved smoking pipe, and secondly to an improved cigarette holder.

Generically speaking, the invention has reference to an improved article which embodies an appropriate mouth piece, a sleeve carried thereby and adapted to function in one instance as a cigarette holder, and in another instance as an attachment for an ordinary pipe, together with an improved saliva collecting device for disposition within the sleeve to intercept, purify, and filter the smoke.

The chief feature of construction is the smoke purifying and moisture collecting device which embodies a container coupled through the medium of a novel connection, with the mouth piece, the container being constructed to accommodate filtering and absorbent material.

In the drawings:—

Figure 1 is a side view in section and elevation of the improved pipe.

Figure 2 is an enlarged fragmentary sectional view showing the details of the filtering device more plainly.

Figures 3 and 4 are cross sections taken on the lines 3—3 and 4—4 of Figure 2.

Figure 5 is a detail view of a filtering screen.

Figure 6 is a view showing the invention embodied as a cigarette holder wherein the same is constructed to permit the filtering device to act additionally as an ejector.

Figure 7 is a view like Figure 2 showing a slightly different embodiment of filtering device.

Figure 8 is a view like Figure 6 showing a further improvement in the cigarette holder.

Attention is first invited to Figures 1 to 4 inclusive. In these figures the reference character 8 designates the bowl of a smoking pipe which is provided at its bottom with a right angularly disposed attaching neck 9 upon which the invention, generally designated at 10, is mounted. Incidentally the connection may be through the medium of a

friction fit or a screw threaded connection, whichever is preferable.

The invention 10 comprises a mouth piece 11 of ordinary form which carries an open ended sleeve 12. The sleeve telescopes at one end on the mouth piece and at its opposite end is telescoped onto the neck 9. It will be noticed that the sleeve thus forms an internal compartment 13 which accommodates the improved filtering device. This device is better represented in Figure 2 wherein it will be observed that it comprises an open ended cylinder 14 of appropriate material which is internally screw threaded at its opposite ends. Fitted into the outer or left hand end is a disc-like plug 15 having a central smoke intake port 16. Fitted in the opposite end is a screw cap 17 which abuts the adjacent end of the mouth piece 11. This cap is formed with a central opening through which the improved coupling passes. This coupling is in the form of a short tube which has an enlarged threaded portion 18 threaded into the correspondingly threaded portion in the bore of the mouth piece 11. The right hand end portion is reduced somewhat as at 19, the same being of a diameter considerably less than the diameter of the bore. On the opposite end is an enlarged head 20 which bears against the cap and serves to connect the latter to the mouth piece. This cap is formed with a kerf 21 to accommodate a screw driver which is used in assembling the structure. The coupling is of course formed with a longitudinal passage 22 through which the filtered smoke passes into the bore of the mouth piece. Associated with the cap and mounted thereon if desired is a strainer or screen 23. Disposed between the plug 15 and the screen 23 is the filtering material. In this embodiment of the invention the filtering material comprises two sponges 24 and 25 bearing against the plug and screen respectively and spaced apart to provide space for granular absorbent material 26. This may be, and preferably is sand. Thus, we have a cylindrical container for an absorbent and filtering material wherein the same abuts the mouth piece, is located in the

sleeve 12 and is connected to the mouth piece through the medium of the headed tubular coupling. The filtering device is preferably of a length less than the length of the aforesaid chamber 13 in Figure 1, thus providing a saliva collecting pocket here.

In Figure 6 I have shown a cigarette holder. In this instance the reference character 11^a designates the mouth piece and 12^a the sleeve. The sleeve, which is made up of separable telescopic sections, is constructed to accommodate the cigarette 27. It will be noted however, that the right hand end of the sleeve is thickened somewhat to provide a shoulder for the filtering device to bear against. This also forms a bearing for a tubular connection 28 between the sleeve and the mouth piece. Incidentally this is a sliding joint, thus permitting the mouth piece and connection 28 to telescope as a unit into the sleeve 12^a for ejecting the cigarette. The filtering device shown here is identical with the one already described, and therefore the same reference characters apply to corresponding parts. The form of the invention shown in Figure 7 is also very similar to the form presented in Figure 2. However, attention is called to the fact that the container comprises a cup 29 which is closed at one end and open and screw threaded at its opposite end, the opposite end receives the screw cap 30 which carries the filtering screen 31. Close to this screen is a smoke intake port 32. The cup is filled with a suitable absorbent and filtering material 33. Otherwise the construction is the same. In this arrangement, however, the container is of a diameter considerably less than the internal diameter of the sleeve 12. Thus, the incoming smoke encircles the filtering device or container and finds its way into the same through the restricted portion 32.

In Figure 7 it will be noted that the reference character 34 designates a portion of a pipe bowl which has its reduced neck telescopically fitted into the end of the sleeve 12. In this connection it is desired to point out that the invention is adaptable either to a pipe of a curved form, of a straight form, or of some other configuration, or to a cigarette holder, either of the solid type or of the slidable ejector type.

Referring further to Figure 8 it will be observed that the reference character 35 represents a sectional sleeve having a reduced end portion 36 forming a guide and bearing for the tubular coupling 37 carried by the mouth piece 38. Here the purifying and saliva collecting device is of the form represented for example in Figure 7 and therefore includes the container 29, smoke intake port 32 and closing cap 30. The cap has a screw threaded stem 39 threaded into the coupling 37. Also threaded on this stem and interposed between the coupling 37 and

the cap 30 is a plug or bushing 40 which fits snugly in the sleeve 35 to provide a smoke-tight joint.

From the foregoing description and drawings it will be seen that I have evolved and produced a simple and inexpensive appliance, the principal feature of which is the filtering device which is so constructed as to purify and cool the smoke. Thus the smoker is assured of an enjoyable and appealing smoke of a more recreational nature than is provided through the ordinary cigarette holder or pipe. The device is believed to be more sanitary than similar devices and is regarded as thoroughly efficient in action.

Minor changes in the shape, rearrangement, and size, coming within the field of invention claimed may be resorted to if desired.

Having thus described the invention, what I claim as new is:—

As a new product of manufacture, a filtering device comprising an open ended internally screw threaded cylinder, a centrally apertured screw plug threaded in one end of the cylinder, a screw cap at the opposite end of the cylinder having an externally screw threaded neck threaded into the last named end of the cylinder, said screw cap having a central opening, and a tubular headed coupling member provided with an externally screw threaded shank portion at one end of which is a notched head, said shank portion passing through the opening in the screw cap with the head located within the neck portion of the cap, and filtering means in the cylinder between the plug and cap and including a strainer associated with the screw threaded neck portion of said cap.

In testimony whereof I affix my signature.
WILLIAM WALKER.

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