May 17, 1955 K. D. LONG, JR 2,708,442

SMOKING PIPE

Filed Sept. 19, 1952

Fig. 1.

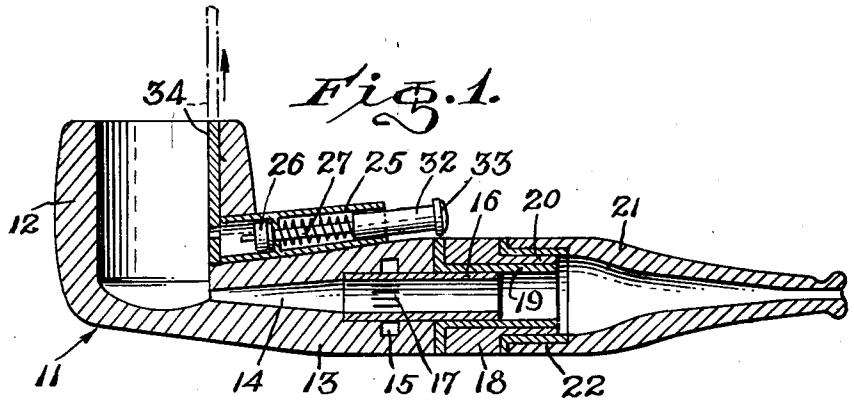


Fig. 2.

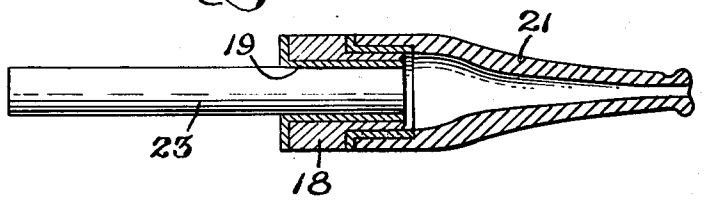


Fig. 3.

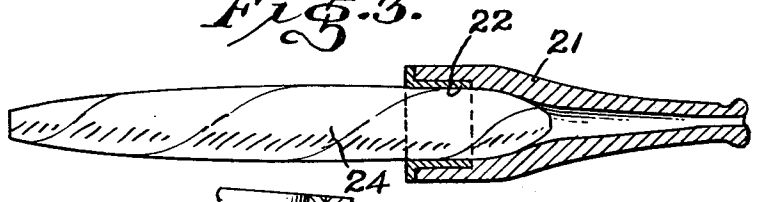


Fig. 4.

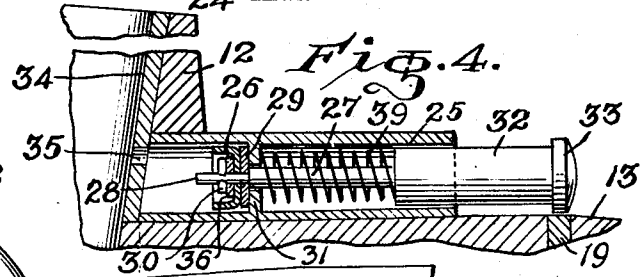
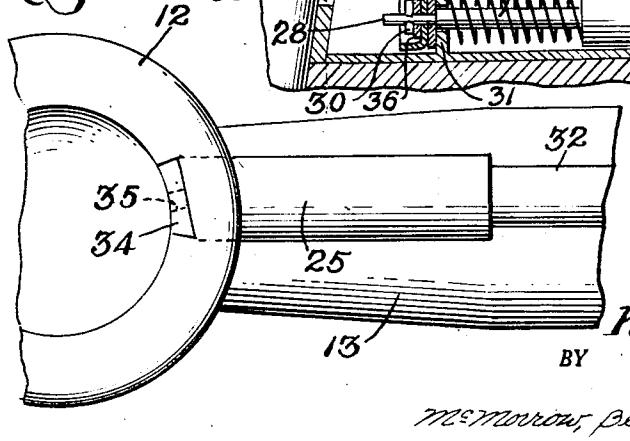


Fig. 5.



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2,708,442

Patented May 17, 1955

2,708,442

SMOKING PIPE

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Application September 19, 1952, Serial No. 310,523

2 Claims. (Cl. 131—171)

This invention relates to smokers' devices, and more particularly to a combination smoking pipe, cigarette and cigar holder.

The main object of the invention is to provide a novel and improved combination smoking pipe, cigarette holder and cigar holder, the improved device being simple in construction, being easy to manipulate, and being arranged so that the bit portion and collar element associated therewith may be readily detached from the main stem portion of the pipe whenever it is desired to employ the device as a cigarette holder or cigar holder.

A further object of the invention is to provide an improved combination smoking pipe, cigarette holder and cigar holder, the improved pipe being provided with means for forcing air through the bowl portion thereof, manually at times, so that the tobacco in the pipe may be maintained in an ignited condition, as where the smoker wishes to discontinue smoking for a period of time without allowing the pipe to go out.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawing, wherein:

Figure 1 is a longitudinal cross sectional view taken vertically through an improved combination smoking pipe, cigarette holder and cigar holder constructed in accordance with the present invention.

Figure 2 is a longitudinal vertical cross sectional view taken through the bit and collar elements of the smoking device of Figure 1, shown arranged as a cigarette holder.

Figure 3 is a longitudinal vertical cross sectional view taken through the bit portion of the smoking device of Figures 1 and 2, shown used as a cigar holder.

Figure 4 is an enlarged vertical cross sectional detail view taken through the air pump employed in the smoking device of Figure 1.

Figure 5 is a fragmentary enlarged top plan detail view of a portion of the bowl and the air pump of the smoking device of Figure 1.

Referring to the drawings, the combination smoking device is designated generally at **11**. The pipe comprises a tobacco bowl **12** which is integrally connected with a stem **13**, said stem having a bore **14** which communicates with the lower portion of the bowl **12**. The bore **14** is forwardly divergent in cross section, as shown in Figure 1, and is formed adjacent its forward end with an annular groove **15**, serving as a moisture trap. Secured in the forward end of the bore is the cylindrical rigid tube **16** which is provided with slots **17** communicating with the groove **15**, for the purpose of allowing liquid to drain from the tube into said groove.

Frictionally engaged on the forwardly projecting end of the tube **16** is a collar element **18**, said collar element being provided with the metal lining **19** which is adapted to tightly engage on the tube **16** and to fit securely thereon, while being readily removable therefrom by the exertion of an outward pull on the collar element. The

collar element **18** is formed with a reduced forward portion **20**, and frictionally engaged on said forward portion is the bit member **21**, said bit member being provided with a metal lining **22** which is adapted to tightly engage on the reduced forward portion **20** of the collar element **18**, as shown in Figure 1. The bit member **21** is, however, readily removable from the reduced collar portion **20** by exerting an outward pull thereon while holding the collar element **18**.

As shown in Figure 2, when the collar element **18** and the bit element **21** are removed from the end of tube **16**, the combination of the collar element **18** and the bit element **21** may be employed as a cigarette holder to support a cigarette **23** in the metal lining **19** of the collar element **18**, as shown in Figure 2. By removing the collar element **18** from the bit element **21**, the bit element may be employed as a cigar holder to support a cigar **24** in the enlarged bore portion of the bit element **21**, as shown in Figure 3, the cigar being gripped in the annular metal lining **22** of the bit element.

Secured on the top of the stem **13** and extending through the forward wall portion of the bowl **12** into communication with the interior of the bowl is a metal cylinder **25**. Slidably mounted in the cylinder **25** is the flexible rubber annular cup-shaped plunger **26**, said plunger **26** being axially secured on a plunger rod **27**, the rod **27** having a reduced end **28**. The rubber cup **26** is mounted on the end **28** between a metal washer **29** and a cotter pin **30**, as shown in Figure 4, whereby the cup is securely fastened to the reduced end **28** of the plunger rod **27** and faces toward the bowl **12**. Secured in the cylinder **25** intermediate its ends is a means provided with an aperture, such means being a centrally apertured transverse wall **31** through which the plunger rod **27** slidably extends. Secured to the end of the plunger rod **27** is the cylindrical push button element **32** provided at its end with the enlarged head **33**. A coil spring **39** surrounds the plunger rod **27** and bears between the transverse wall **31** and the push button element **32**, biasing the plunger rod to the right, as viewed in Figure 4, and biasing the plunger cup **26** to a position adjacent the wall **31**, as illustrated. Designated at **34** is a dovetail plate member which is slidably mounted in a vertical dovetail groove in the inside portion of the wall of bowl **12**, said plate member **34** being normally arranged over the inner end of the cylinder **25**, as shown in Figure 4 and the plate member being provided with an aperture **35** which establishes communication between the inner end of the cylinder **25** and the bowl **12**. As shown in Figure 4, the cup **26** is relatively loose in the cylinder **25**, allowing air to pass freely into the cylinder from the right end of the cylinder, as viewed in Figure 4, through the aperture in the wall **31** and past the washer **29** during the time that the plunger rod **27** and cup **26** are being moved forwardly to the right by the spring **39**, with the washer **29** being spaced from wall **31**. When the button member **32** is pushed inwardly, namely, to the left, as viewed in Figure 4, the flexible plunger cup **26** will flex outwardly toward the circular wall defining the cylinder **25**, substantially as in the conventional air pump, resulting in the air in the left end of the cylinder **25** being compressed and forced into the pipe bowl, the air passing through the aperture **35** in the plate **34** into the bowl. It is thus possible to provide a pumping action to pump air into the pipe bowl **12** by manual reciprocation of the button element **32**, namely, by intermittently pushing the button element **32** toward the pipe bowl **12**. Thus the tobacco in the bowl may be maintained in an ignited condition during those periods of time when smoking is discontinued and the smoker does not wish the tobacco in the pipe bowl to become extinguished.

When it is desired to clean the cylinder 25, the plate 34 is first removed by sliding it upwardly out of its dovetail groove and the button element 32 is pushed inwardly to a position wherein the cotter pin 30 may be removed from inside the bowl. This releases the plunger rod 27, which may be then extracted, and also releases the plunger cup 26 and the washer 29, as well as the inner washer, shown at 36 in Figure 4, which may be employed between the cotter key 30 and the plunger cup 26 to cooperate with the larger washer 29 in holding the plunger cup 26 in proper position in the cylinder 25. With the parts thus removed, the cylinder may be cleaned, and the pump device may then be reassembled by following a reverse procedure from that described above, the apertured plate 34 being reinserted in its dovetail groove at the end of the operation.

While a specific embodiment of an improved combination smoking pipe, cigar holder, and cigarette holder has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A smoking pipe comprising a tobacco bowl, a stem having a bore communicating with the lower portion of said bowl, a cylinder connected at one end to said bowl adjacent said stem, means provided with an aperture interiorly of and carried by said cylinder intermediate the ends of said cylinder, a plunger slidably supported in the aperture of said means, a flexible cup in the portion of said cylinder intermediate said one end of said cylinder and said means and carried by said plunger, a button secured to said plunger and projecting axially from the other end of said cylinder, spring means biasing the plunger forwardly in said cylinder, and a removable apertured plate mounted in said bowl against the rearward end of said cylinder, the aperture in said plate being in alignment with the rear end of said cylinder.

2. A smoking pipe comprising a tobacco bowl, a stem having a bore communicating with the lower portion of said bowl, said stem having a main body and a removable bit portion, a cylinder connected at one end to said bowl adjacent said stem, a transverse wall provided with an aperture interiorly of and carried by said cylinder intermediate the ends of said cylinder, a plunger slidably supported in the aperture of said wall, a flexible cup in the portion of said cylinder intermediate said one end of said cylinder and said wall and carried by said plunger, a button secured to said plunger and projecting axially from the other end of said cylinder, spring means biasing said plunger away from said one end of said cylinder, and a removable plate mounted in said bowl against the rearward end of said cylinder, said last named plate having an aperture connecting said bowl in communication with the portion of said cylinder intermediate said one end thereof and said wall.

References Cited in the file of this patent

UNITED STATES PATENTS

693,888	Olson	Feb. 25, 1902
1,058,232	Gunn	Apr. 8, 1913
1,232,310	Hoefler	July 3, 1917
1,243,803	Bradley	Oct. 23, 1917
1,545,147	Levin	July 7, 1925
2,590,488	Bade	Mar. 25, 1952
2,612,172	Gustafson	Sept. 30, 1952