June 2, 1942. A. R. RUSSELL 2,285,057

SMOKER'S PIPE

Filed Oct. 4, 1941

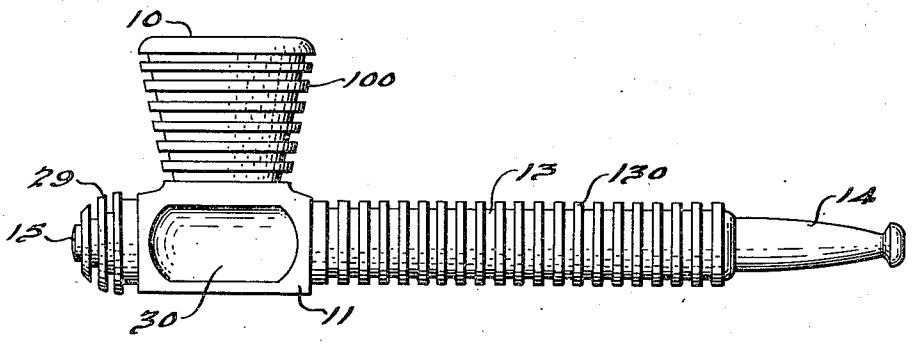


Fig. 1.

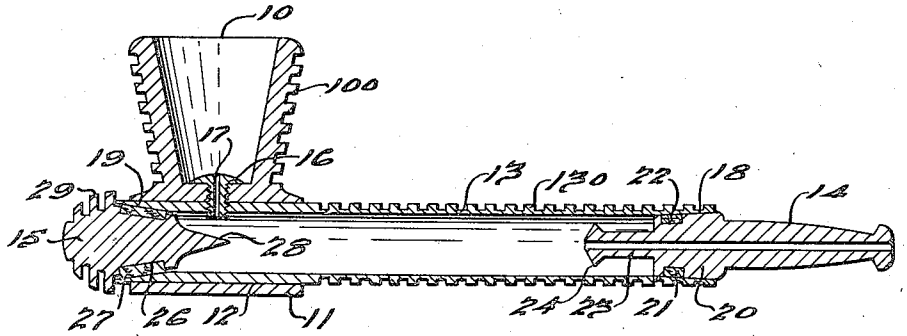


Fig. 2.

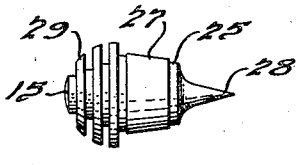


Fig. 4.

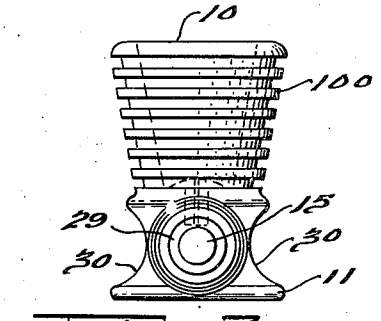


Fig. 3.

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SMOKER'S PIPE

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1 Claim. (Cl. 131—194)

This invention relates to pipes for smoking tobacco.

The primary object of the invention is to provide a smoker's pipe which may be smoked continuously and rapidly without the smoke being drawn into the mouth of the smoker becoming objectionably high temperatured.

Another object of the invention is to provide a smoker's pipe wherein a goodly portion of heat in the smoke passing from the bowl into the stem thereof is directed away from the mouthpiece and dissipated externally of said stem.

Another object of the invention is to provide a smoker's pipe having a relatively cool portion directly below the bowl whereby to admit of handling the pipe without burning or scorching the smoker's fingers.

Another object of the invention is to provide a smoker's pipe which has the portion below the bowl thereof particularly formed to admit of ease in holding and handling the pipe while smoking the same.

Other objects of the invention will become apparent by reference to the following detailed description taken in connection with the accompanying drawing, in which:

Fig. 1 is a side elevational view of a smoker's pipe embodying the invention.

Fig. 2 is a longitudinal sectional view of the embodiment of the invention disclosed in Fig. 1.

Fig. 3 is a front elevational view.

Fig. 4 is a side elevational view of the heat absorbing and dissipating means employed.

Referring now to the drawing wherein like reference numerals refer to like and corresponding parts throughout the several views, the illustrative embodiment of the invention disclosed comprises a bowl 10 preferably of briar including a base 11 having an aperture 12 therethrough which telescopingly accommodates a metallic stem 13 having a composition longitudinally apertured mouthpiece 14 at one end thereof and a metallic heat absorbing and dissipating element 15 at the other end thereof. An anchorage screw 16 disposed through the center of the bottom of the bowl 10 and threaded into the top of the stem 13 secures the said bowl 10 in the desired longitudinal position on the stem 13. An axial aperture 17 through the said anchorage screw 16 serves as a jet to direct smoke from the pipe bowl 10 against the heat absorbing and dissipating element 15.

The bowl 10 and the stem 13 are preferably ribbed, finned or fluted as indicated by the numerals 100 and 130 respectively to provide a large surface area for cooling the pipe generally. The stem 13 is provided with internal tapers 18 and 19 at opposite ends thereof to accommodate the mouthpiece 14 and heat absorbing and dissipating element 15 which are wedged into opposite ends of the said stem 13 as shown in Fig. 2.

The longitudinally apertured mouthpiece 14 has a portion 20 tapered externally complementally with respect to an internal taper 18 in the rear end of the stem 13. A gasket 21 of cork or the like carried in a peripheral groove 22 around the tapered portion 20 of the mouthpiece 14 assures waterproofness and airtightness of the joint between the mouthpiece 14 and the stem 13. The said mouthpiece 14 is provided with an internally extending rib 23 having a drip 24 at the end thereof which is sufficiently spaced from the internal periphery of the stem 13 to prevent saliva and moisture which collects within the stem 13 from being drawn therefrom through the mouthpiece 14 as the pipe is being smoked. The stem 13 serves as a reservoir for the saliva and moisture which usually collect within a pipe stem during smoking.

The metallic heat absorbing and dissipating element 15 comprises a solid or relatively massive piece of metal of high thermal conductivity and absorption such as aluminum, copper or brass. Steel or stainless steel may be used but with a slightly lower degree of efficiency. As best indicated in Figs. 2 and 4, the said metallic heat absorbing and dissipating element 15 is tapered at 25 complementary with respect to the internal taper 19 in the forward end of the stem 13 and is provided with a groove 26 to accommodate a cork or like washer 27 preferably larger in diameter than the said tapered portion 25 of the said metallic heat absorbing and dissipating element 15 whereby to hold the said heat absorbing and dissipating element 15 in insulated relationship from the said stem 13 and to seal the forward end of the said stem 13 against leakage of air and moisture. As shown in Fig. 2, the said stem 13 is preferably formed to a feather edge at the outer end thereof so that very little heat from the heat absorbing and dissipating element 15 is carried to the said stem 13 by conduction.

The inner end of the heat absorbing and dissipating element 15 is preferably pointed as indicated by the numeral 28 in Figs. 2 and 4 and is of sufficient length to cause the said pointed end 28 thereof to become disposed directly below the jet 17 through the screw 16 which anchors the pipe bowl 10 to the stem 13. The outer end of the said heat absorbing and dissipating ele-

ment 15 is provided with a plurality of relatively deep fins or the like 29 which dissipate the heat absorbed by the point 28 thereof to the atmosphere.

By jetting the smoke drawn through a smoker's pipe embodying the invention directly against the inner end 28 of the heat absorbing and dissipating element 15, a large portion of the heat of the smoke is absorbed by the said heat absorbing and dissipating element 15 and dissipated to atmosphere directly, thereby preventing overheating of the pipe stem 13, thus providing cooler smoking and a cooler pipe stem.

Because the point 28 of the heat absorbing and dissipating element 15 is always relatively cooler than smoke jetted thereagainst, the said point 28 serves as a condenser and causes the deposit of a dark brown tar-like condensate thereon during smoking the pipe; the said condensate drips from the condenser point 28 into the pipe stem 13 and may be drained therefrom after each smoking of the pipe. The smoke coming from the pipe during smoking is sweeter and contains less harmful nicotine and the like than it would otherwise contain had the condensation referred to not taken place.

The base 11 of the pipe bowl 10 is preferably provided with longitudinally disposed thumb and finger grooves 30 which admit of holding the pipe conveniently and easily while smoking without burning or scorching the smoker's fingers, because a large portion of the heat in the smoke is diverted from the pipe stem 13 to and through the heat absorbing and dissipating means 15 to atmosphere.

Although the pipe stem 13 has been indicated and described as preferably metal, because of the direct dissipation of a goodly portion of heat from smoke as it leaves the pipe bowl and enters the pipe stem through the heat absorbing and dissipating means 15 to atmosphere, the said pipe stem may be constructed of wood or plastic as well as of metal.

Although but one embodiment of the invention has been disclosed and described in detail, it is obvious that many changes may be made in size, shape, detail and arrangement of the elements of the invention without departing from the scope of the invention as defined by the appended claim.

I claim:

A smoker's pipe comprising a unitary bowl and base member, a stem telescoped through said base member, anchorage means extending from the bottom of said bowl through said stem fixing said stem relative to said bowl and having a jet aperture therethrough through which smoke from said bowl enters said stem, a mouthpiece at one end of said stem, and an exteriorly finned and inwardly pointed heat absorbing and dissipating element of considerable mass at the other end of said stem, said heat absorbing and dissipating element being located substantially entirely forwardly of said jet aperture and insulated from said stem and having its inwardly projecting point spaced from the walls of said stem and located below said jet, whereby to remove heat from smoke entering said stem at the point of entry and provide relatively cooler smoking conditions.

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