FIGURE 1

FIGURE 2

FIGURE 3

FIGURE 4

FIGURE 5

FIGURE 6

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PURE SMOKE PIPE

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1 Claim. (Cl. 131—195)

This invention relates to improvements in pipes, and more particularly to the provision of a device to prevent tars, and moisture from tobacco and the like entering the mouth of the smoker.

Numerous expedients have been provided with the object of preventing nicotine, tars, moisture, etc., entering the stem of a pipe and the mouth of a smoker. However, such devices heretofore presented have involved tubular structures which are difficult to clean, or moisture absorbing substances and the like which soon become saturated and ineffective.

It is, therefore, an object of this invention to provide a device for a pipe which positively holds back obnoxious substances from the mouth of a smoker.

A further object is to provide a metal condenser which can be easily inserted in a pipe or readily removed for cleaning purposes, the device being in the form of a metal stem with a central passage through which air for cooling and condensing purposes can freely flow.

A further object is the provision in a pipe of a trap in which smoke is caused to flow upward after leaving the bowl of the pipe, being cooled during the upward flow, and then flow downward to the stem of the pipe after the obnoxious substances have been cooled.

These and other objects are attained by the novel construction and arrangement of parts hereinafter described and illustrated by the accompanying drawings, forming a part hereof, and in which:

Fig. 1 is a sectional view of a pipe partly in elevation embodying the invention.

Fig. 2 is a plan view of the pipe.

Fig. 3 is a plan view showing the upper end of the condensing plug.

Fig. 4 is a side elevational view of the condensing plug used in the pipe.

Fig. 5 is a perspective view of the plug.

Fig. 6 is also a side elevational view of the condensing plug taken from a point positioned at a right angle to that shown in Figure 4.

Referring to the drawings, there is shown in Fig. 1 a pipe having a conventional bowl 1 with a passage 2 which generally leads to a passage 3 in a stem 4 which has a flat bottom so that the pipe can safely rest on a table or other surface without danger of the contents of the bowl spilling.

Communicating with the passage 2 is a cylindrical chamber 5 adjacent the bowl, said chamber being vertical and substantially of the same height as the bowl 1. The chamber 5 is internally threaded and threadedly receives a condensing plug 6 which is made preferably of aluminum or a similar metal which is a good heat conductor.

The shank forming the intermediate section of the plug 6 has flattened sides 11 and threaded sides 8 as shown in Fig. 5, with threaded heads or bosses 9 and 10, the lower boss having a slot 11 by means of which the plug can be screwed into the chamber by using a screw driver, coin, or the like.

At its upper end the plug 6 is provided on the threaded sides 8 with grooves or recesses 12 which provide communication from one flattened side 11 to the other. Thus, there are provided in the chamber 5 two parallel vertical passages defined by the walls of the chamber 5 and the flattened sides 11.

The plug has a central passage extending throughout its length so that the warm air will pass through head 9 and cool air will enter head 10 and provide means for cooling and condensing the smoke. This passage 13 is shown in Fig. 1.

In operation, the smoke from the bowl 1, passage 2, enters chamber 5, and is forced to move upward in the space between the chamber wall and the flattened surface 7 of the plug 6. During its travel upward, the nicotine, tars, and other obnoxious substances are cooled and condensed, so that when the smoke reaches the grooves 12, it is pure, and then moves downward on the other side of the plug to the passage 3 in the stem, providing the smoker with a smooth, cool, and clean smoke.

The device obviously is simple and effective, the solid plug 6 enabling it to be easily cleaned, there being no necessity to clean the air passage 13.

The above description is to be considered as illustrative and not limitative of the invention of which modifications can be made without departing from the spirit and scope of the appended claim.

The invention having been described, what is claimed is:

In a smoker's pipe, the combination which comprises a bowl having a stem with an opening through the stem extending into the bowl and having an internally threaded vertically disposed cylindrical chamber positioned at the intersection between the bowl and stem and extending from the lower to the upper surfaces thereof, a condensing plug having a vertically disposed centrally positioned air passage therethrough with enlarged threaded bosses at the ends and with
the intermediate part thereof between the said threaded bosses relieved providing a flat comparatively thin shank connecting the said threaded bosses, and with the edges of the shank threaded, the outer surface of the threaded boss at one end of the condensing plug having a screw-driver slot therein for screwing the plug into the cylindrical chamber of the pipe with the ends of the plug flush with the upper and lower surfaces of the bowl and with the relieved sections of the plug communicating with the opening extending from the stem into the bowl of the pipe, and with the said threaded edges of the flat intermediate portion of the shank having recesses therein adjacent the threaded boss at the upper end of the plug providing communicating means between the stem and bowl of the pipe through the relieved parts of the shank of the plug in the pipe.

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