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SMOKING PIPE

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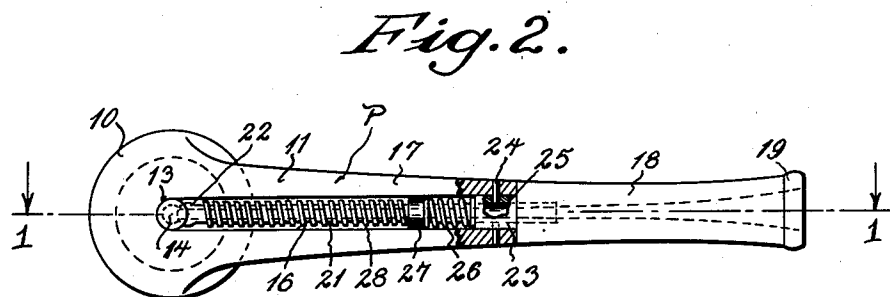
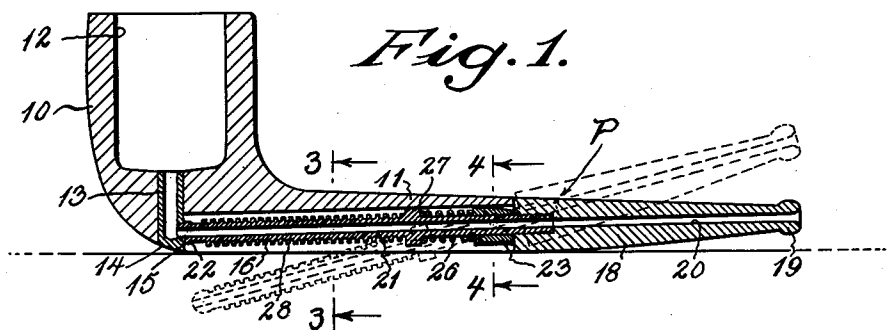


Fig. 3.

Fig. 4.

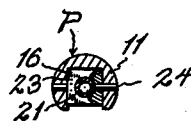
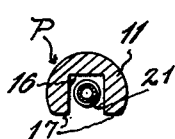
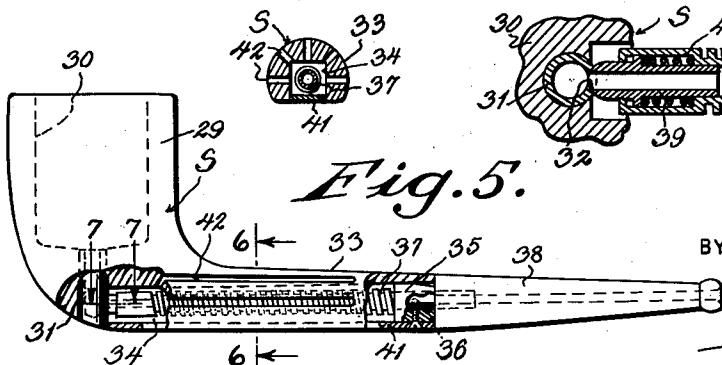


Fig. 5.

Fig. 5.



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SMOKING PIPE

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2 Claims. (Cl. 131—194)

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This invention appertains to smoking pipes and more particularly to a novel sanitary pipe for giving a clean, cool smoke.

One of the primary objects of the invention is to provide a smoking pipe which can be expeditiously cleaned without the necessity of dismantling the pipe parts.

Another salient object of the invention is to provide a smoking pipe in which the bit is pivotally mounted on the bowl stem and is provided with an extending smoke conduit tube for fluid tight connection, with the wall of the bore of the bowl, whereby upon the swinging of the bit on the bowl stem, the bit and conduit tube can be moved at an angle to the bowl and its stem to permit collected matter to be blown out of the bit and tube and whereby a cleaner can be readily passed through the bit and tube.

A further object of the invention is to provide novel means for forming the conduit tube, so that the same will have a smoke tight connection with the bowl and be held against accidental swinging movement when the bit is in its normal smoking position.

Another further object of the invention is to provide novel means for constructing the bowl to releasably receive the tube and to prevent the creeping of moisture into the bowl, so that tobacco at the bottom of the bowl will be maintained in a fresh, dry condition.

A still further object of the invention is to provide means for constructing the stem in such a way that the circulation of air around the smoke conduit tube can be had, whereby a cool smoke will result.

A still further object of the invention is to provide means for forming the stem and bit so that the pipe can be laid down on a flat surface in an upright position with the bit slightly elevated above said surface.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described and claimed, and illustrated in the accompanying drawing, in which drawing,

Figure 1 is a longitudinal, sectional view through a pipe constructed in accordance with the invention, the section being taken on the line 1—1 of Figure 2, looking in the direction of the arrows.

Figure 2 is a bottom plan view of the pipe, parts of the figure being shown broken away and in section to illustrate structural details.

Figure 3 is a transverse sectional view through

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the stem and conduit tube illustrating the normal position of the tube in the stem, the section being taken on the line 3—3 of Figure 1, looking in the direction of the arrows.

Figure 4 is a transverse sectional view partly in elevation taken on the line 4—4 of Figure 1, looking in the direction of the arrows, illustrating the novel connection between the bit and stem.

Figure 5 is a side elevational view illustrating another form of the pipe, parts of this figure being shown broken away and in section, to illustrate structural details.

Figure 6 is a transverse sectional view through the modified form of pipe taken on the line 6—6 of Figure 5, looking in the direction of the arrows.

Figure 7 is an enlarged, fragmentary detail horizontal sectional view, illustrating the arrangement of the snap head or button on the conduit tube utilized in the modified form of our invention, the section being taken on the line 7—7 of Figure 5, looking in the direction of the arrows.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter P generally indicates one preferred form of the smoking pipe, and as illustrated, the same includes a pipe bowl 10, having formed integral therewith a stem 11. The bowl is provided with the usual tobacco receiving compartment 12, but it is to be noted that in accordance with the invention, the compartment 12 terminates short of the lower end of the bowl. Extending into the lower end of the bowl at the axial center thereof is a short length of tubing 13, closed at its lower end, as at 14. The extreme lower end of the tubing is provided with an outlet port 15, the walls of which are curved to provide a ball seat, as will be later set forth. It is to be noted, however, that this short length of tubing 13 closed at its bottom, will serve as a chamber for the collection of liquid matter and hence this tubing will prevent this matter from collecting in the bottom of the bowl. The stem 11 is slotted as at 16, from its extreme rear end to the short length of tubing and such slot opens out through the lower end of the stem. The bottom portions of the stem on each side of the slot 16 are preferably flattened, as at 17, for a purpose which will be later set forth.

Associated with the stem in a novel manner is a bit 18 formed from any desired material, and the outer end of the bit is formed to provide a mouth piece 19. Rigidly secured to the

bit and communicating with the longitudinal bore 20 thereof, is a smoke conduit tube 21. This tube 21 in connection with the bit and stem forms a vital part of this invention. The tube can be constructed from any desired type of material such as aluminum. The tube 21 extends from the inner end of the bit to the short length of tubing 13 and is normally received within the slot 16 of the stem, as can be seen by referring to Figures 1 and 2. The extreme forward end of the tube is shaped to provide a substantially ball shaped head 22, which is adapted to snugly fit within the port 15 of the tubing 13.

In accordance with the invention, a block 23 is received within the slot 16 at the rear end of the stem 11, and the block is pivotally connected to the stem for swinging movement by pivot pins 24 which extend through the sides of the stem and into the block. The block is provided with a longitudinally extending guide way 25, which slidably receives and supports the tube 21.

By this construction, so far, it can be seen that the bit 18 and the tube 21 can be slid longitudinally relative to the stem 11 and can be swung on said stem to the dotted line position shown in Figure 1, as will be hereinafter more fully set forth.

An expansion spring 26 is coiled about the tube 21 and is confined between the block 23 and a collar 27 on the tube and hence the tube and the bit are normally urged toward the bowl. When the bit 18 and the tube 21 are in their normal position as shown in full lines in Figures 1 and 2, the ball head 22 will be held in firm contact with the walls of the port 15 and hence accidental swinging movement of the bit and the tube will be prevented and fluid tight communication will be established between the bowl and the bit.

After the smoking of the pipe, and when it is desired to clean the same, it is merely necessary to pull back on the bit 18 against tension of the coil spring, so as to unseat the head 22 from the tubing 13 and the bit and tubing can now be swung at an angle to the stem, as shown in Figure 1. By blowing through the bit, the bit and stem can be readily cleaned and if so desired, a pipe cleaner can now be easily passed through the bit and stem. To return the bit and tube to their normal positions, it is merely necessary to swing down on the bit and pull the same rearwardly until the tube is again moved into the stem, at which time the bit can be released. While it is preferred to pull back on the bit, to swing the stem, obviously the tube can snap into and out of position upon forcible swinging of the bit.

Attention is directed to the fact that the tube 21 is spaced from the walls defining the slot 16 and this permits circulation of air around the tube to cool the smoke. If desired, the outer surface of the tube can be provided with heat radiating fins 28. One method of forming these fins is to provide a screw thread around the outer surface of the tube.

The outer end of the bit 18 is slightly angled, as can be seen by referring to Figure 1, and owing to the flattened portions 17 of the stem, the pipe can be readily laid on a flat surface in an upright position with the mouth piece disposed above said surface. This keeps the mouth piece in a sanitary condition.

In Figures 5 to 7, inclusive, is shown a slightly

modified form of the pipe and this form is indicated by the reference character S.

The pipe S includes the bowl 29, having the tobacco receiving chamber or compartment 30, with which communicates the short length of tubing 31. The tubing 31 is of identically the same character as the tubing 13 and the tubing 31 is provided with a port 32 having its walls curved or beveled to form a ball seat. Extending laterally from the bowl 29 is a stem 33 and the stem is provided with a longitudinally extending slot 34, opening out through the bottom thereof. The slot extends from the tubing 31 to the rear end of the stem. Disposed in the slot is a swinging block 35 which corresponds to the block 23 and this block is pivoted to the stem by means of pivot pins 36. Normally disposed in the slot 34 is a smoke conduit tube 37 and this tube, in this form is rigidly fastened to the block and extends therethrough for rigid connection with the bit 38. Slidably mounted in the extreme forward end of the tube, is a hollow head 39 and this head is normally urged toward the bowl by an expansion spring 40. The outer end of the head is curved so as to fit snugly within the port 32.

In this form of the pipe, by swinging the bit, the head can be snapped into and out of engagement with the wall of the port 32, and hence the pulling back of the bit 38 is eliminated.

If preferred, a finishing strip 41 can be secured to the block 35 for swinging movement with the bit and tube 37, and when the bit and the tube are in their normal position, this finishing strip 41 will close the slot 34.

The circulation of air around the tube 37 is facilitated by providing the stem with a series of longitudinally extending narrow vent slits 42. The tube may or may not be provided with heat radiating fins. In the form of the invention shown in Figures 5 to 7, the pipe can be cleaned in the same manner as the pipe illustrated in the preferred form and hence the bit and tube can be swung at an angle to the stem for cleaning purposes.

Changes in details may be made without departing from the spirit or the scope of the invention but what we claim as new is:

1. A smoking pipe comprising a bowl having a chamber for tobacco and a laterally extending stem, said stem being provided with a longitudinally extending slot opening out through one face thereof and extending from the bowl to the rear end thereof, a piece of tubing fitted axially in said bowl communicating with the lower end of the chamber and having its lower end closed and having a port adjacent to said lower end, a bit, a smoke conduit tube rigidly connected to said bit adapted to be normally received within the slot, a swinging block pivotally secured to the stem adjacent to the rear end thereof, said tube being slidably mounted in said block for longitudinal movement, a head on the forward end of said tube adapted in one position to snugly engage the wall of the port, the bit and tube being mounted for swinging movement with the block, and spring means normally urging the bit and tube forwardly toward the bowl to hold the head in the port when the tube is disposed in the slot.

2. A smoking pipe comprising a bowl having a chamber for tobacco and a laterally extending stem and a port disposed below the chamber communicating therewith and opening into the stem, said stem being provided with a longitudinally

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extending slot opening out through one face thereof and extending from the bowl to the opposite end thereof, a bit, a smoke conduit tube rigidly connected to said bit adapted to be normally received within the slot, a swinging block pivotally secured to the stem adjacent to the rear end thereof, said tube being slidably mounted in said block for longitudinal movement, a head on the forward end of said tube adapted in one position to snugly engage the wall of the port, the bit and tube being mounted for swinging movement with the block, and spring means normally urging the bit and tube forwardly toward the bowl to hold the head in the port when the tube is disposed in the slot.

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