

F. H. A. MOEHLNBROCK.
TOBACCO PIPE.
APPLICATION FILED JULY 13, 1911.

1,108,604.

Patented Aug. 25, 1914.
2 SHEETS—SHEET 1.

Fig. 1.

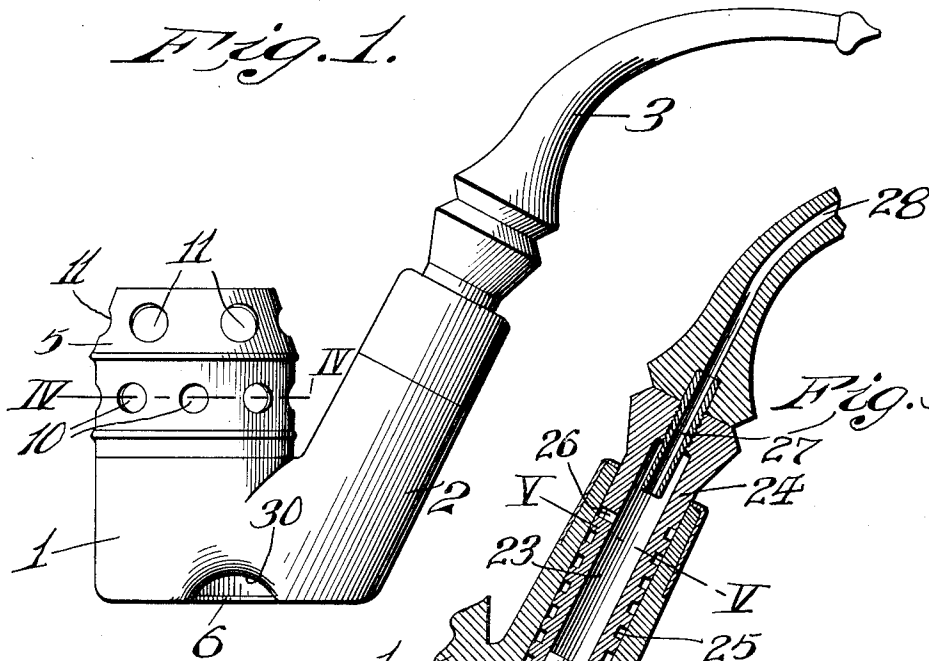
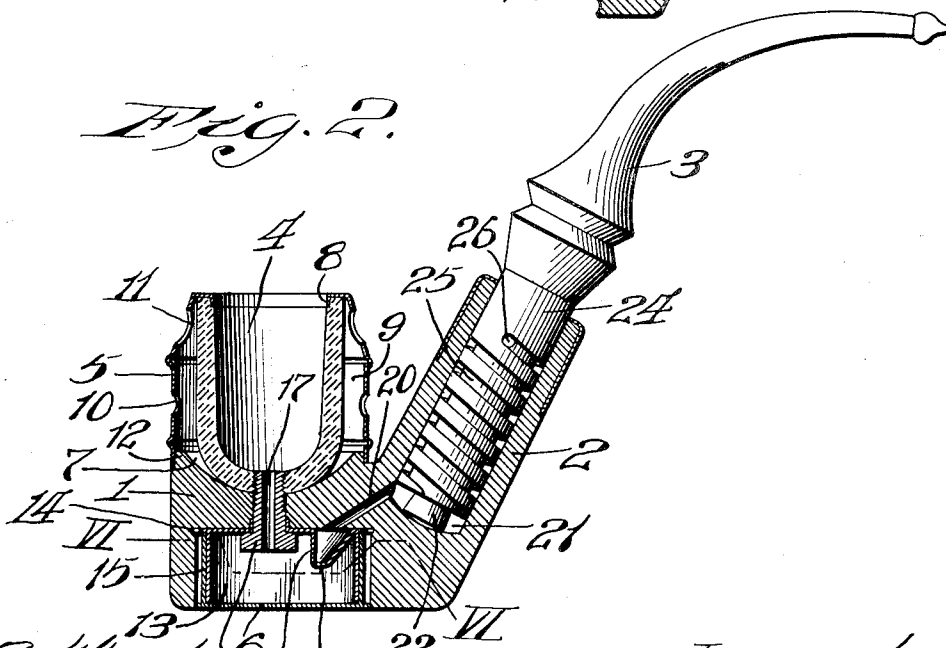


Fig. 3.

Fig. 2.



Attest:
L. G. Fletcher,
M. C. Hammon

Inventor:
Frederick H. A. Moehlenbrock
By *Smith Bros.* attys.

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2 SHEETS—SHEET 2.

Fig. 4.

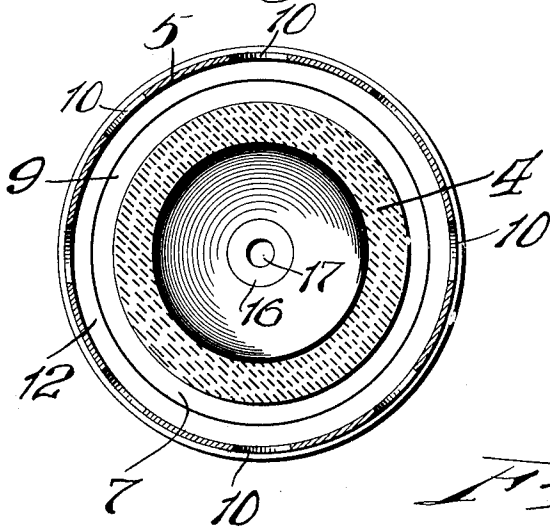


Fig. 5.

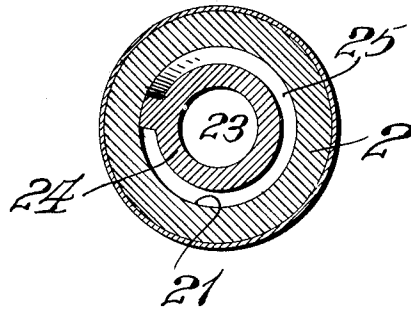


Fig. 6.

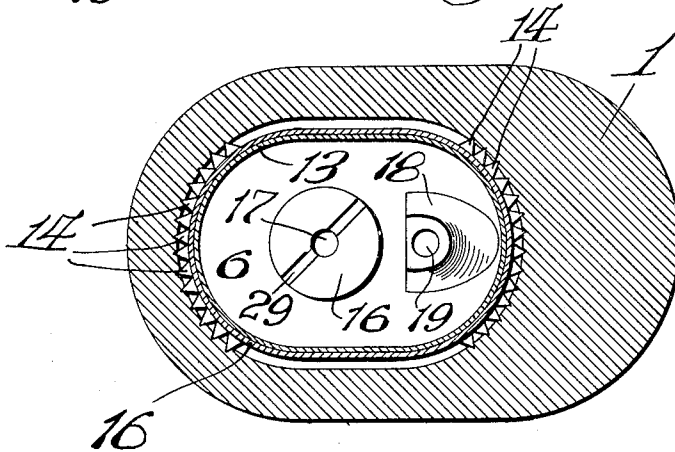
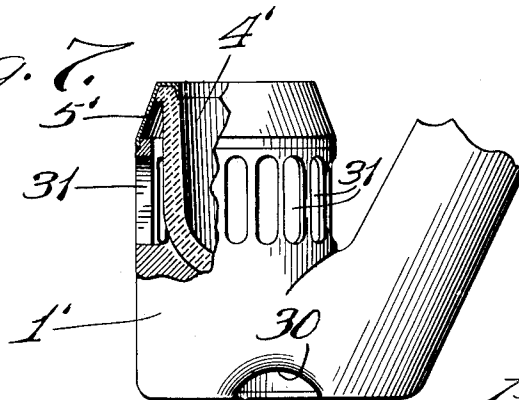


Fig. 7.



Attest:
A. G. O'Leary
M. C. Hammond

Inventor:
Frederick H. A. Moehlenbrock
By F. M. B. atlys.

UNITED STATES PATENT OFFICE.

FREDERICK H. A. MOEHLENBROCK, OF ST. LOUIS, MISSOURI.

TOBACCO-PIPE.

1,108,604.

Specification of Letters Patent.

Patented Aug. 25, 1914.

Application filed July 13, 1911. Serial No. 638,249.

To all whom it may concern:

Be it known that I, FREDERICK H. A. MOEHLENBROCK, a citizen of the United States of America, residing in the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Tobacco-Pipes, of which the following is a specification.

This invention relates to pipes, and has for its primary object to provide an improved construction, combination and arrangement of parts in a device of this character.

One of the objects of the present invention is to provide an improved bowl construction, whereby the bowl can be continuously cooled by means of a current of air passing around the same throughout practically its entire outer surface.

Another object is to provide improved means for separating the nicotin and liquids from the smoke at different points along the smoke conveying passageway.

A further object is to provide an improved removable nicotin and moisture collector.

Another object is to provide an improved stem construction.

Other and further objects will appear in the specification and be specifically pointed out in the appended claims, reference being had to the accompanying drawings exemplifying the invention, and in which,

Figure 1 is a side elevation of a pipe constructed in accordance with the principles of the present invention. Fig. 2 is a vertical section of the same, with the stem shown in elevation. Fig. 3 is a fragmentary sectional view of the same showing the stem construction. Fig. 4 is a section on the line IV—IV, Fig. 1. Fig. 5 is a section on the line V—V, Fig. 3. Fig. 6 is a section on the line VI—VI, Fig. 2. Fig. 7 is a fragmentary side elevation of a modified form of the pipe, partly broken away, and parts being shown in section.

Referring more particularly to the drawings, and first to the embodiment shown in Figs. 1 to 6, inclusive, the pipe comprises a base member 1 provided with a stem receiving socket 2 for receiving a stem 3, a removable bowl 4, a ventilating shell 5 surrounding the bowl 4, and a removable receptacle 6 for nicotin and moisture.

The base member 1 is provided above with

a concave seat or socket 7 of greater curvature than the curved bottom of the bowl 4, thereby providing an air space extending beneath a portion of the bottom of the bowl 4 for cooling purposes. As shown in Fig. 2, the upper interior wall of the bowl 4 is recessed to receive the downwardly deflected flange 8 of the cooling shell 5, said shell being deflected toward the top and extending over the upper edge of the bowl 4, so that it is adapted to support said bowl at the top. The shell 5 is spaced from the bowl 4 to provide an air space 9, the construction already described making it possible to construct the bowl 4 relatively thin.

Within the lower cylindrical portion of the shell 5 are provided a plurality of air inlet openings 10 which are preferably arranged in series horizontally. Above these openings, and preferably in the upper inclined portion of the shell, are outlet openings 11. The shell 5 is mounted upon the base 1 by means of its lower edge which grips the annular shoulder 12. Opening from the bottom face of the base member 1, is a recess for receiving the receptacle 6, said receptacle comprising a downwardly open shell 13 provided with a serrated flange 14 at either end to adapt it to be pressed into the recess, the serrations serving to retain it in position after it has been thrust home. In order to provide a removable cover for the receptacle, an outer shell 15 fits over the curved wall of the inner shell 13, projecting into the annular space left between the inner shell and the curved wall of the recess.

In order to provide suitable means for releasably connecting the base member 1, the bowl 4, and receptacle 6, a hollow stud 16 is employed, whose head engages the top wall of the inner shell 13, and whose extremity is threaded to the bowl 4. A tubular passageway 17 in the stud 16 conveys the smoke from the bowl into the receptacle 6. By having the passageway 17 opening through the head of the stud 16, the inner wall of the receptacle 6 is made irregular, so that any fluid nicotin does not drain into a position to be sucked in by the smoker. In order, however, to accentuate this feature, the top wall of the inner shell 13 is stamped downwardly into the form shown at 18 in Figs. 2 and 6. This depending portion

18 is provided below with an inlet opening 19, and enlarged upwardly so that the vertically inclined smoke passage 20 can be made of smaller diameter than the upper end of the portion 18. The passage 20 discharges into an annular chamber 21 which is formed between the inner cylindrical wall of the stem socket 2 and a stopper 22 for the lower end of the stem chamber 23 formed within the stem portion 24. The outer cylindrical wall of the stem portion 24 is provided with a helical groove 25 which opens at its lower end into the annular chamber 21, and at its upper end communicates through a radial aperture 26 with the upper end of the chamber 23.

As shown best in Fig. 3, the mouth piece of the stem is divided from the portion 24, being secured thereto by means of a threaded tube 27 which forms a portion of the smoke duct 28 and depends for some distance into the chamber 23. As shown in Fig. 6, the head of the stud 16 is provided with a slot 29 by means of which it may be screwed into and out of position.

In the modification shown in Fig. 7, the base member 1' is extended much higher than in the former embodiment, its cylindrical wall being provided with a plurality of vertically elongated openings 31, through which the air may pass freely into the annular chamber surrounding the bowl 4'. In this embodiment, the metallic housing 5' is of comparatively small extent, being seated on the upper end of the base member 1'. As shown in Figs. 1 and 7, the base members are notched at 30 to enable the finger and thumb to be inserted into engagement with the flange on the bottom of the nicotin and moisture receptacle.

The advantages of my improved construction will now be appreciated, and briefly stated are as follows: The bowl, nicotin receptacle, and stem are all removable and have their cavities and passageways readily accessible for cleaning purposes. The bowl construction enables the bowl 4 to be very economically constructed and readily cooled. The stem portion 24 by having a helical smoke passage 25 on its outer surface is very easily cleaned, and moreover connects with the annular chamber 21 away from the points at which the channel 20 connects therewith. A further feature of improvement is the chamber 23 within which any moisture or nicotin which reaches the port 25 is intercepted, and into which the saliva from the smoke duct 27 discharges. The member 22 and the removable connection 26 give very ready access to the chamber 23 for cleaning purposes.

It is desired to lay stress upon the fact that while I prefer to provide a helical groove in the depending stem portion, said portion might, within the spirit of my in-

vention, be provided with a groove running in any direction around the outer wall, or with a passageway extending through and contained entirely within the wall of the depending portion.

What I claim is:

1. In a pipe, the combination with a base member provided with an upper curved surface with a smoke duct extending there-through, of a detachable bowl provided with a base portion of less curvature than said upper surface of the base to provide an air space beneath and around said bowl, said bowl being in open communication with said smoke duct.

2. In a pipe, the combination with a base with a bottom recess, of a bowl surmounting said base, a receptacle in said recess, and a stud for securing said bowl and receptacle to said base, said stud being provided with a smoke duct leading from said bowl to said receptacle, said base being provided with finger openings for engagement with said receptacle.

3. In a pipe, a recessed base member, a receptacle in the recess, a stem provided with a duct in communication with said receptacle, and a bowl surmounting said base member, said receptacle being provided with a serrated top flange in engagement with the walls of said recess.

4. In a pipe, the combination with a base member provided with a stem socket, a recess, and a duct connecting said recess and socket, of a bowl surmounting said base member, and a receptacle in said recess in communication with said bowl, said receptacle being provided with a depending funnel having its enlarged upper end covering the end of said smoke duct.

5. In a pipe, the combination with a base member surmounted by a bowl and provided with a stem socket, of a stem comprising a mouth piece having a smoke duct and a depending portion provided with a central chamber of larger diameter than the stem duct, said chamber being open at its lower end, and a helical duct in its outer wall, the upper end of said duct being in communication with said central chamber, and a stopper for the opening in the lower end of said central chamber, said stopper being adapted to form an annular chamber.

6. In a pipe, the combination with a base member provided with a stem socket and a smoke duct leading from the upper corner of the lower end of said socket, of a stem comprising a mouth piece provided with a smoke duct, a hollow depending portion open at both ends and provided with a helical smoke groove in its outer wall and an aperture connecting said groove with the interior thereof, a stopper for the lower opening of said depending portion, said

stopper forming an annular chamber, and a connecting tube for securing the mouth piece and depending portion together.

7. In a pipe, the combination with a base member provided with a stem socket and a smoke duct leading from the upper corner of the lower end of said socket, of a stem comprising a mouth piece provided with a smoke duct, a hollow depending portion open at both ends and provided with a helical smoke groove in its outer wall and an aperture connecting said groove with the interior thereof, a stopper for the lower opening of said depending portion, said stopper forming an annular moisture trapping chamber, and a connecting tube for securing the mouth piece and depending portion together; said connecting tube having its lower end depending into the hollowed interior of said depending portion forming an annular recess.

8. In a pipe, a bowl, a receptacle provided with a funnel depending from its top wall, said funnel being disposed with its smaller end downward, a smoke duct connecting the bowl with said receptacle at a point distant from said funnel, a stem socket communicating with the enlarged upper end of said funnel through a smoke duct of smaller diameter than said upper end of the funnel, and a stem provided with a smoke duct.

9. A pipe comprising a bowl, a two-part receptacle below said bowl, one of said parts being secured to the bowl by means of a stud provided with a central smoke duct, said part being provided with a funnel depending into said receptacle, the other part of said receptacle being removable, and a stem communicating with the upper end of said funnel, said funnel being arranged with its smaller end downward.

10. In a pipe, a recessed base member, a receptacle in said recess, a stem provided with a duct in communication with said receptacle, and a bowl surmounting said base member, said receptacle being provided with a serrated top flange in engagement with the walls of said recess, a stem portion provided with a central chamber located in said stem duct, a stopper located in the lower end of said chamber, said stopper resting on the bottom of said stem duct forming an annular chamber therearound, and a helical duct formed on the outside of said stem portion, said helical duct communicating with said annular chamber and said central chamber.

11. In a pipe, the combination with a base-member provided with an upper curved surface with a smoke duct extending there- through, of a detachable bowl provided with a base portion of less curvature than said upper surface of the base to provide an air space beneath and around said bowl, said bowl being in open communication with said smoke duct, a stem duct communicating with said smoke duct, a stem portion provided with a central chamber located in said stem duct, a stopper located in the lower end of said chamber, said stopper resting on the bottom of said stem duct forming an annular chamber, and a helical duct formed on the outside of said stem portion, said helical duct communicating with said annular chamber and said central chamber.

12. In a pipe, the combination with a base member provided with a stem socket, a recess, and a duct connecting said recess and socket, of a bowl surmounting said base member, a receptacle in said recess in communication with said bowl, said receptacle being provided with a depending funnel having its enlarged upper end covering the end of said smoke duct, a stem portion provided with a central chamber located in said stem socket, a stopper located in the lower end of said chamber, said stopper resting on the bottom of said stem duct forming an annular chamber, and a helical duct formed on the outside of said stem portion, said helical duct communicating with said annular chamber and said central chamber.

13. In a pipe, the combination with a base member provided with a stem socket, and a smoke duct leading from the upper corner of the lower end of said socket, of a stem comprising a mouthpiece provided with a smoke duct, a hollow stem portion open at both ends and provided with a helical smoke groove in its outer walls, and an aperture connecting said groove with the interior thereof, a stopper for the lower opening of said stem portion, said stopper resting on the bottom of said stem socket forming an annular chamber, and a connecting tube depending into said stem portion for securing said mouthpiece and said stem portion together.

FREDERICK H. A. MOEHLENBROCK.

In the presence of—
H. G. FLETCHER,
M. C. HAMMON.