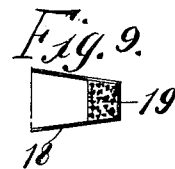
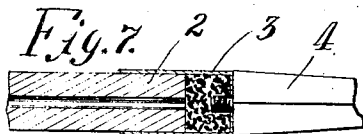
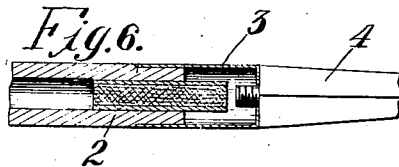
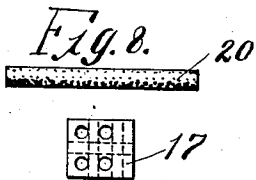
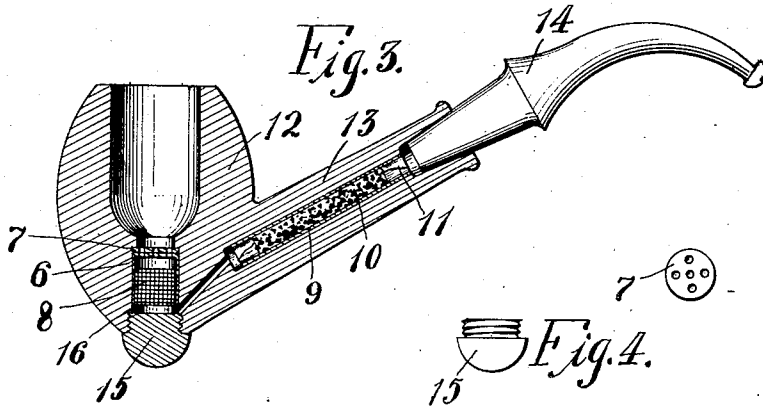
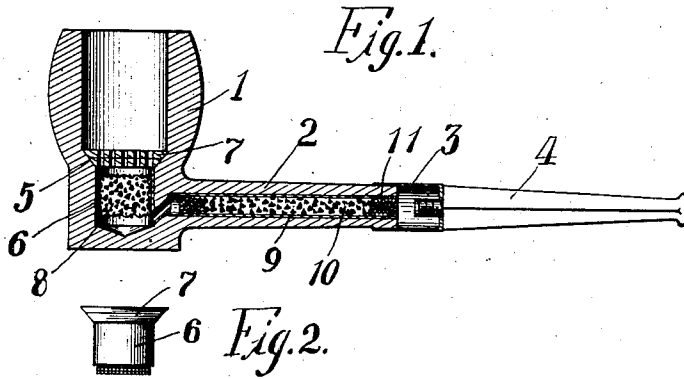


T. B. BRADFORD.
PIPE.

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936,083.

Patented Oct. 5, 1909.



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UNITED STATES PATENT OFFICE.

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PIPE.

936,083.

Specification of Letters Patent.

Patented Oct. 5, 1909.

Application filed March 19, 1909. Serial No. 484,406.

To all whom it may concern:

Be it known that I, THADDEUS BOGLE BRADFORD, a citizen of the United States of America, residing at Monongahela city, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Pipes, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to smoking pipes, and the objects of the invention are, first, to provide a pipe with positive and reliable means for preventing nicotin, tobacco oils and foreign matter from entering the mouth piece of a pipe from the bowl thereof; second, to provide an attachment that can be used in connection with various kinds of pipes for maintaining the same in a sanitary and cleanly condition; third, to provide a pipe with an absorbent filtering material, that will reduce the strength of strong tobacco used in the pipe; and fourth, to provide a filtering attachment for pipes that can be easily and quickly removed and renewed.

The above objects are attained by a simple and inexpensive attachment that aims to prolong the life of a smoker by preventing nicotin infected smoke from being inhaled or drawn into the mouth, it being a well known fact that the health is injured by the use of strong tobacco, particularly when inhaled and taken into the lungs.

My invention is not confined to pipes but can be embodied in cigar and cigarette holders or can be made as an attachment for the ends of cigars or cigarettes placed in a holder.

The invention will be hereinafter more fully described in detail and then specifically claimed, and reference will now be had to the drawing forming a part of this application wherein there is illustrated the preferred embodiments of my invention, but I would have it understood that the detail construction thereof can be varied or changed without departing from the spirit of the invention.

Referring to the drawings:—Figure 1 is a longitudinal sectional view of a pipe constructed in accordance with my invention, Fig. 2 is an elevation of a filter detached from the pipe, Fig. 3 is a longitudinal sectional view of another type of pipe constructed in accordance with my invention,

Fig. 4 is an elevation of the plug thereof detached from the pipe, Fig. 5 is a plan of a portion of the filter, Fig. 6 is a longitudinal sectional view of a portion of a pipe stem, equipped with the filter, Fig. 7 is a similar view showing a modified form of filter, Fig. 8 is an elevation of two different forms of filter, and Fig. 9 is a sectional view of a filter attachment for the end of a cigar or cigarette.

In the drawings, the reference numeral 1 designates a pipe bowl having a straight stem 2 provided with a sleeve or ferrule 3 and a mouth piece 4. These parts are common to an ordinary smoking pipe, and in order that one type of filter can be used in connection with the pipe, I provide the bowl 1 thereof with an interior annular shoulder 5. This shoulder is adapted to support a cage within the bowl 1, said cage being made of metal, porcelain, wood or any suitable material, preferably non-combustible. The cage comprises a cylindrical body 6, having an annular perforated head 7 adapted to rest upon the shoulder 5 of the bowl 1. In the cage is located filtering material 8, as charcoal, either in the granulated or porous form, silk, cotton or linen, absorbent filtering paper, such as used by chemists, or any material having properties capable of filtering smoke and absorbing nicotin and the oils of tobacco. The cage is suspended from the shoulder 5, and beneath said cage sufficient clearance is provided for the passage of smoke into the stem 2.

In connection with the stem a filtering and absorbent material can be used, which is preferably in the form of a stick or tube. I prefer to use a paper tube 9 provided with charcoal tubes or sticks 10 retained within the tube by silk, cotton, or linen 11, but charcoal tubes or sticks can be used, with silk, cotton or linen attachments, and furthermore, sticks of wrapped linen or absorbent filtering paper. The tubes or sticks are preferably made in a form that can be easily carried, inserted in the stem 2 and when the pipe has been several days used, the tubes or sticks can be removed and new ones placed therein, thereby insuring a clean and wholesome use of the pipe.

In Fig. 3 of the drawings, I have illustrated a pipe bowl 12 having an angularly disposed stem 13 and a mouthpiece 14. The bottom of the bowl 12 is provided with a detachable plug 15, and in this instance, the

filtering cage can be supported within the bowl in a superimposed position by depending lugs 16 carried by the cage.

Fig. 6 shows a portion of a pipe stem simply having a tube of absorbent filtering material placed therein, the tubes in this form being easily carried and renewed, while in Fig. 7 of the drawings, the ferrule 3 of the mouthpiece 4 can be packed with granulated charcoal or a porous piece of charcoal 17, as shown in Fig. 8 of the drawings, if desired.

A further application of my invention to smokers' articles is shown in Fig. 9 of the drawings, where a small cap 18 is provided with a filtering material 19, said cap being easily fitted upon the end of a cigar or cigarette, prior to placing the same in the holder. In connection with cigar and cigarette holders, and pipe stems in which the filtering tubes could not be easily placed, sticks of charcoal 20 can be used or small rolls of an absorbent and filtering paper.

Either form of my filter does not interfere with the draft of a pipe, and simply prevents dust, nicotin and oils of tobacco from passing into the smoker's mouth, besides maintaining the pipe in a sanitary condition.

Having now described my invention what I claim as new, is:—

1. In combination with a pipe having a

bowl and a stem, said bowl being formed with a bottom opening, a filtering cage on the bowl, filtering material in the cage and a removable plug in the opening. 35

2. In combination with a pipe having a stem, of a filtering tube of absorbent silk and charcoal located in said stem.

3. In combination, a pipe having a stem, and a filtering tube having a charcoal center and silk closed ends in the stem. 40

4. In combination with a pipe stem, a tube having a charcoal center and silk closed ends located in said stem, a ferrule on the end of the stem and mouthpiece connected to the ferrule but spaced apart from the end of the filtering tube. 45

5. In combination with a pipe having a bowl formed with a bottom opening, a filtering cage located in the bowl, and a screw plug closing the opening and holding the cage in place, said pipe having a stem connected to said bowl, the bore of the stem being disposed between the confronting faces of the cage and the plug. 50

In testimony whereof I affix my signature in the presence of two witnesses. 55

THADDEUS BOGLE BRADFORD.

Witnesses:

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