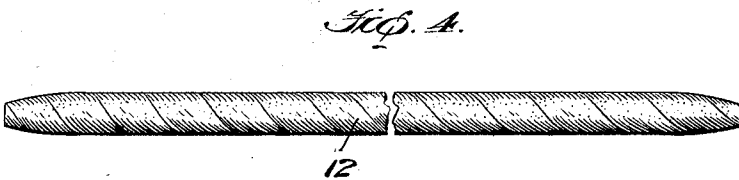
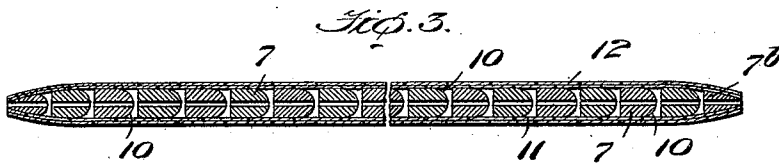
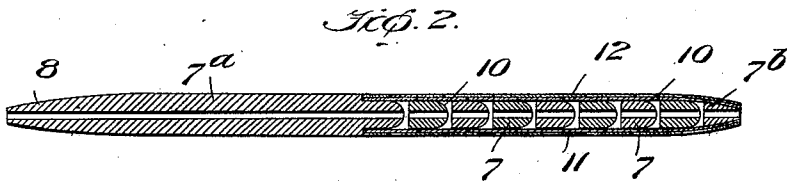
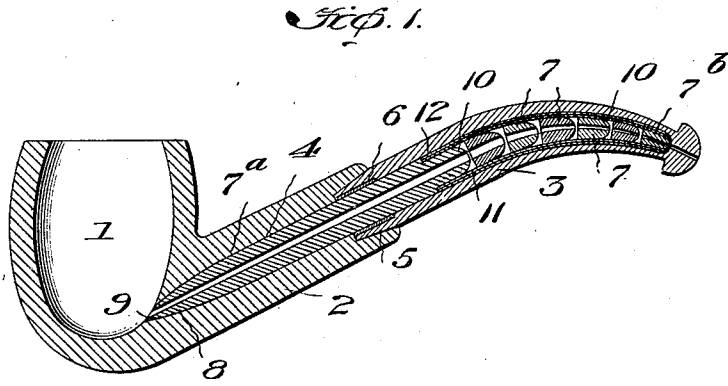


E. H. ZIEBARTH.
ATTACHMENT FOR TOBACCO PIPES.
APPLICATION FILED APR. 26, 1911.

1,000,569.

Patented Aug. 15, 1911.



Witnesses
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UNITED STATES PATENT OFFICE.

ERNEST H. ZIEBARTH, OF HELENA, MONTANA:

ATTACHMENT FOR TOBACCO-PIPES.

1,000,569.

Specification of Letters Patent. Patented Aug. 15, 1911.

Application filed April 25, 1911. Serial No. 623,258.

To all whom it may concern:

Be it known that I, ERNEST H. ZIEBARTH, a citizen of the United States, residing at Helena, county of Lewis and Clark, and State of Montana, have invented certain new and useful Improvements in Attachments for Tobacco-Pipes, of which the following is a specification.

This invention relates to attachments for tobacco pipes.

The present invention has for its object the provision of a new interior stem for use in the stems of tobacco pipes, whether they be straight or curved, which will be so constructed that it will be retained within the stem, catch the deposits or incrustation, prevent the moisture from running into the bowl of the pipe, and be capable of insertion by any one in the stem of a pipe and of such cheapness that it may be removed and thrown away when it becomes foul and another interior stem substituted, thereby keeping the stem of the pipe clean and sweet at all times.

The invention contemplates the provision of an articulated tubular inner stem which may be detachably inserted in the stem of a pipe which, by reason of its articulation, will be adapted to conform to the pipe stem, whether straight or curved, and, in its narrower aspect, the invention contemplates preferably absorbent tube sections, connected by yieldable joints and peculiarly formed, all as will more fully appear hereinafter.

In the accompanying drawings: Figure 1 is a longitudinal section of a pipe equipped with my improved inner stem which is shown exaggerated to better disclose the construction; Fig. 2, a longitudinal section of the inner stem of Fig. 1 likewise exaggerated in size, showing in detail the arrangement of the tubular sections and the wrappings or coverings; Fig. 3, a longitudinal section, broken away, of another form where the sections are of substantially the same size throughout the length of the inner stem; and Fig. 4, an exterior view of Fig. 3.

The bowl 1 and sub-stem 2, as also the detachable stem 3 may all be of ordinary construction but with the smoke channel enlarged to adapt it to receive the inner stem. In some pipes, the smoke channel 4 in the sub-stem and main stem is straight, but in other pipes it is curved. My invention is adaptable to both types of stem. The joint 5 may be either a screw-threaded or a fric-

tion joint. In either instance, particularly if the joint is a friction joint, I preferably provide an interior metallic bushing 6 in the stem 3 whereby the pressure in joining the parts is sustained and damage thus prevented by too tight screwing or wedging.

My inner stem or attachment consists of a plurality of articulated tubular sections 7, one of which 7^a may be relatively long and straight to conform to the straight part of the smoke passage of the stem, and this is preferably provided with a tapered part 8 to frictionally wedge in the tapered opening 9 that leads into the bowl 1. At the other end the section 7^b is also preferably tapered so that it will wedge into the tapered smoke passage adjacent the mouth piece. The provision of the tapered ends which wedge in the stem of the pipe prevents the rattling of the inner stem. All of the articulated sections, particularly the smaller ones are preferably provided with tapered tips or ends pointing toward the mouth piece, as shown at 10 so that they will form, in connection with the stem, a sort of choke valve or baffle construction to prevent the moisture from the smoker's lips from running down into the smoke passage 4, that is, they will tend to trap the moisture.

In describing the part 7^a as being straight, I wish it understood that this is not necessarily so as the inner stem constituting the present invention may be composed of numerous small, or relatively small, articulated sections like the sections 7, which construction is shown in Fig. 3 and, in that connection, I wish it understood that the present invention contemplates any arrangement and length of the sections that may be desired. The invention consists, broadly, in this respect, in a plurality of articulated sections. The sections may be made of any sufficiently rigid material, but they are preferably made of some absorbent substance such as porous pipe clay, meerschaum, etc., but in that respect I do not limit myself to the material of which the sections are made, nor to whether they are porous or non-absorbent.

The sections may be connected together, so that they will constitute an articulated structure, in several ways. Preferably, the sections are spaced apart a short distance and are connected by a covering of some suitable textile material 11, cheese cloth being an instance, which may be wound one

or more times around the sections from one end to the other of the entire inner stem or as far as may be necessary. The textile material may be spirally wound and the overlapping edges and free ends made fast to the sections by some suitable adhesive which is impervious to moisture and is also, preferably, antiseptic. Around this wrapping there may be wound a thin tough strip of oil paper 12, suitably fastened by some adhesive. The textile material provides the articulations between the sections and the oiled paper keeps out the moisture.

The foregoing arrangement of textile material and paper may be reversed, the oiled paper covering being first wound and the textile material being thereafter wound around the sections. Again, the adhesive may be omitted from the inner covering and this inner covering held by the outer covering and the adhesive which secures the outer covering. Furthermore, the outer covering may be omitted and the textile material which articulates the sections may be covered with a waterproof composition.

In the drawings, the parts of the inner stem and the covering therefor are shown as greatly exaggerated in size in order to render the construction clear.

I am aware that many changes could be resorted to in carrying out my invention and I do not, therefore, limit myself to the precise construction herein set forth, but claim all modifications falling within the spirit and scope of the invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. The combination with the stem of a tobacco pipe, of an inner, separate and detachable, stem composed of a plurality of tubular, articulated, sections.

2. The combination with the stem of a tobacco pipe, of an inner, separate and detachable, stem therefor having a plurality of tubular sections, and flexible tubular joints connecting said sections.

3. The combination with the stem of a tobacco pipe, of an inner, separate and detachable, stem therefor having a plurality of tubular sections, and tubular joints of textile material connecting said sections.

4. The combination with the stem of a tobacco pipe, of an inner, separate and detachable stem therefor having a plurality of tubular sections, and tubular joints of textile material connecting said sections, said joints being waterproof.

5. The combination with the stem of a tobacco pipe, of an inner stem having a plurality of articulated tubular sections adapted to cooperate with the stem to check the flow of the moisture down the pipe into the bowl.

6. The combination with the stem of a tobacco pipe, of an inner stem having a plurality of articulated tubular sections provided with tapered parts which, by cooperation with the interior of the pipe stem, are adapted to prevent the moisture from flowing down the pipe stem into the bowl.

7. An inner stem for tobacco pipes having a plurality of tubular articulated sections.

8. An inner stem for tobacco pipes having a plurality of tubular sections, and moisture proof tubular and flexible joints connecting said sections.

9. In a tobacco pipe, the combination with the sub-stem and a detachable stem removably connected thereto, each provided with a tapered part in its smoke channel, of a removable inner stem composed of articulated tubular sections located in the smoke channel of the sub-stem and detachable stem, the end sections of said inner stem having tapered parts engaged with the tapered parts aforesaid.

In testimony whereof, I hereunto affix my signature in presence of two witnesses.

ERNEST H. ZIEBARTH.

Witnesses:

JOSIAH BOWDEN,
SHERMAN S. COOK.