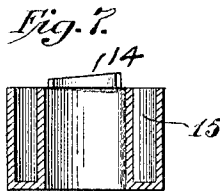
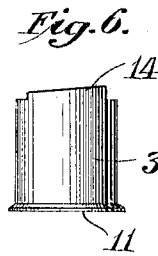
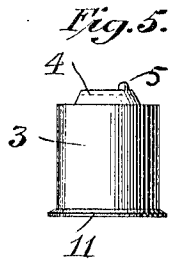
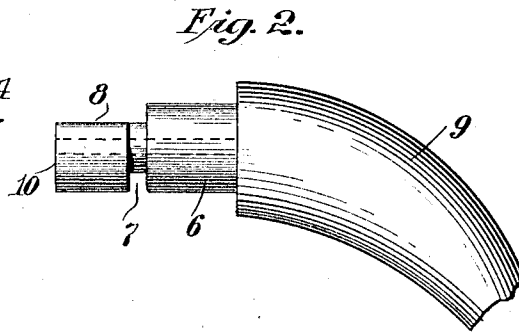
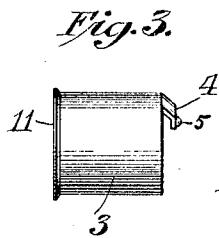
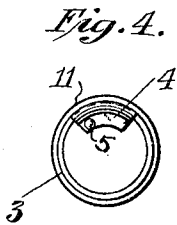
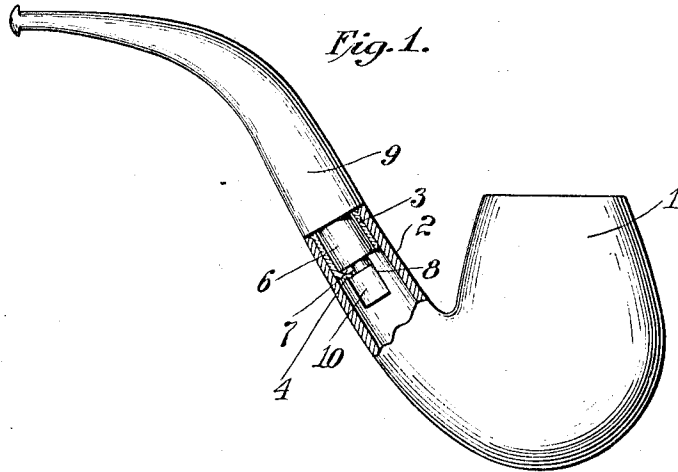


R. WETZEL.
SMOKING PIPE.
APPLICATION FILED MAR. 26, 1912.

1,054,261.

Patented Feb. 25, 1913.



Attest:
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by

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UNITED STATES PATENT OFFICE.

RICHARD WETZEL, OF NEW YORK, N. Y.

SMOKING-PIPE.

1,054,261.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed March 26, 1912. Serial No. 686,346.

To all whom it may concern:

Be it known that I, RICHARD WETZEL, a citizen of the United States, and resident of the borough of Brooklyn, county of Kings, city and State of New York, have invented certain new and useful Improvements in Smoking-Pipes, of which the following is a specification.

This invention is intended as an improvement in the construction of smoking pipes or certain parts thereof and especially in the means of connecting the mouth-piece or stem to the pipe proper. The screw-threads usually employed for connecting stem and pipe have long been found objectionable because of their delicacy, the difficulties encountered in producing them and because of the great care which must be taken in arranging the internal and external screw-threads so as to cause the stem and pipe to be joined in perfect alinement. All of these objectionable features are overcome in my construction, and other advantages will be found in addition to these such as added facility for cleaning, and ease of repair or replacement.

The detail description of the construction as set forth in the specification will develop all of these advantages and others not here enumerated.

The following is what I consider the best means of carrying out this invention.

The accompanying drawings form a part of this specification, in which:—

Figure 1 shows in elevation a complete pipe, the fracture disclosing to view the details of my invention. Fig. 2 shows on a larger scale the end of the pipe stem with the projection secured in place. Fig. 3 shows in elevation one of the thimbles. Fig. 4 is a plan view of the thimble. Fig. 5 is an elevation of the thimble taken at right angles to Fig. 3. Fig. 6 shows a thimble of modified construction, and Fig. 7 shows a thimble of still further modified form.

Similar reference numerals indicate like parts in all the figures where they appear.

At 1, I have indicated the bowl of an ordinary pipe and at 2, I have shown secured and formed integral with said bowl a bowed and upwardly extending projection to which the stem is to be attached. A longitudinal perforation extends through this projection and connects with the hollowed interior of the pipe bowl. The upper end of the perforation is enlarged and into it I fit and secure

a thimble 3, which may be formed of bone or other desirable material but which I have formed of metal. This thimble is tapered and the inner or lower open end is partially closed by a projection 4. The construction of the thimble and the location and shape of the projection is shown in detail in Figs. 4 and 5. This projection 4 is a continuation of the wall of the thimble, and is provided with an inwardly turned flange extending toward the axial center of the thimble to a small extent. This flange is thin and the portion 4 that supports it is also quite thin so that the flange may be considered a spring member for it is my intention that it shall be flexible to a definite extent. At 5, I have shown a teat or projection secured into the flange or formed integral therewith and arranged for a purpose that shall appear later.

Into the end of the pipe stem I secure the member shown in detail in Fig. 2. This member is cylindrical and is also provided with a longitudinal perforation. The material from which this member 6 may be constructed is not important though I prefer that it shall be formed of bone or rubber. Near the outer end of the member 6, I produce an annular groove 7 and I flatten one side of the member 6 from the groove to the nearest end as shown at 8.

From the foregoing description of the construction, the operation of my device may appear obvious but for the purpose of clearly defining the structure I will describe it in detail.

Into the end of the stem 9, I screw-thread the member 6 securing it there by cementing if I find it desirable. I then pass the end 10 of the member 6 into the thimble 3 entering it by way of the flanged and open end 11 causing the flattened portion 8 of the member 6 to pass the flange 4, and when the groove 7 is opposite and in line with the flange projection 4, a partial revolution of the stem will cause the flange of the projection 4 to pass into the groove 7, the revolution of the stem is continued until arrested by the spring tension of the member 4, or until it reaches the teat or projection 5. The thimble is then cemented and inserted into the recess provided for it in the projection 2, of the pipe 1 and the cement is allowed to dry. When dry a partial revolution of the stem in the direction opposite to that required for engaging, will disengage the

stem and it may be readily removed. From this construction it will be seen that it is unnecessary to provide screw-threads and that when the stem is removed there remains a large and clear space well adapted to facilitate cleaning.

In Fig. 6, I have shown a modification of the construction of the thimble, in this construction the thimble is provided with a projection that is also flanged, but that is arranged on an angle, this projection need not be flexible as in this construction I depend upon the frictional engagement of the walls of the groove 7 with the angle projection 14.

At Fig. 7 I have shown still another modification in which the flanged member is provided with an overhanging part or petticoat. This figure is in section so as to show the annular space 15 into which the upper portion of the projection 2 is intended to be secured.

Having carefully and fully described my invention what I claim and desire to secure by Letters Patent is:

1. A pipe having a projection for the

reception of a stem, a metallic member secured within said projection, said metallic member being provided with a flexible elongation and a spring flange projecting inward from said elongation and a stem adapted to be engaged with said metallic member and secured by said flange as specified.

2. A pipe, a metallic thimble provided with a flexible elongation supporting a spring flange and adapted to be secured to said pipe, and a stop upon said flange, a stem provided with an elongation having a peripheral groove and a flattened portion and adapted to be engaged with said metallic thimble and said flange and to abut said stop as herein specified.

Signed at New York city, in the county of New York and State of New York this 21st day of March, 1912.

RICHARD WETZEL.

Witnesses:

G. E. STERRITTE,

ARTHUR PHELPS MARR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."