

No. 778,817.

PATENTED DEC. 27, 1904.

H. WILLIS.
TOBACCO PIPE.

APPLICATION FILED JAN. 18, 1904.

Fig. 1.



Fig. 2.

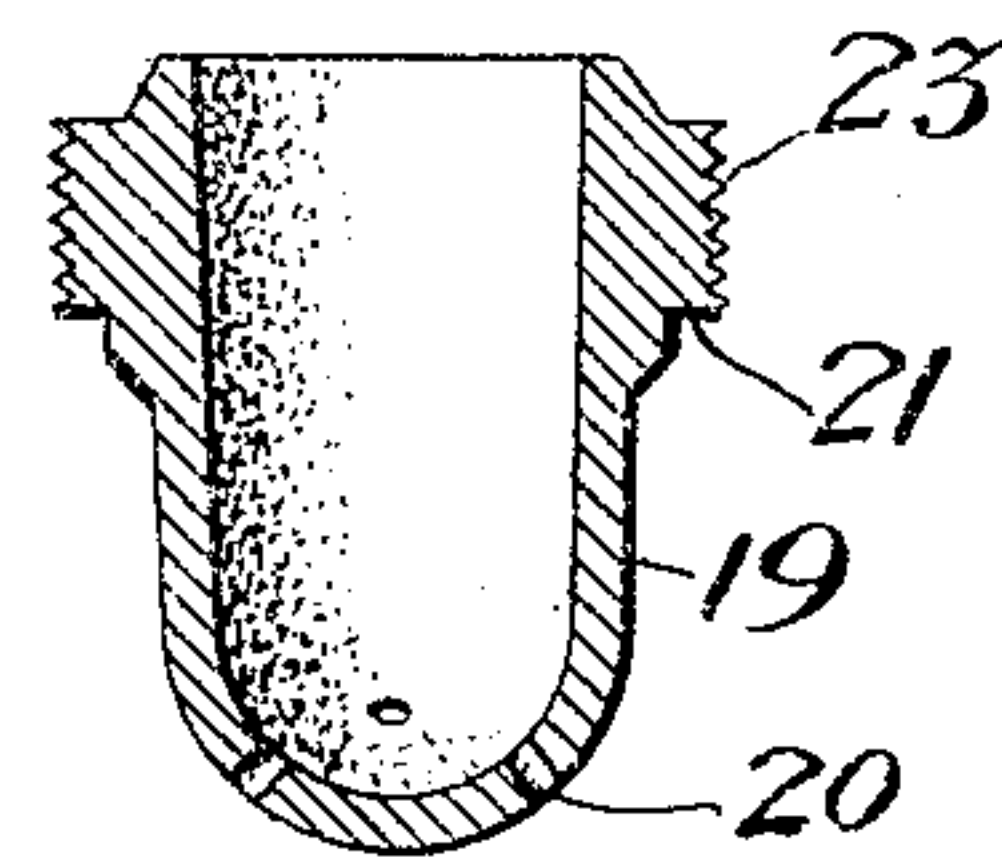


Fig. 3.

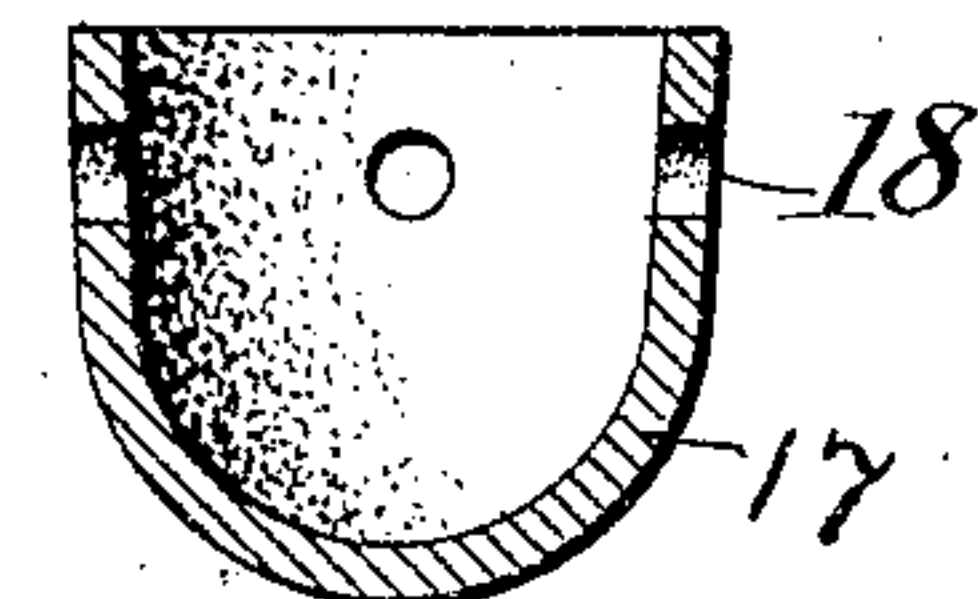


Fig. 4.

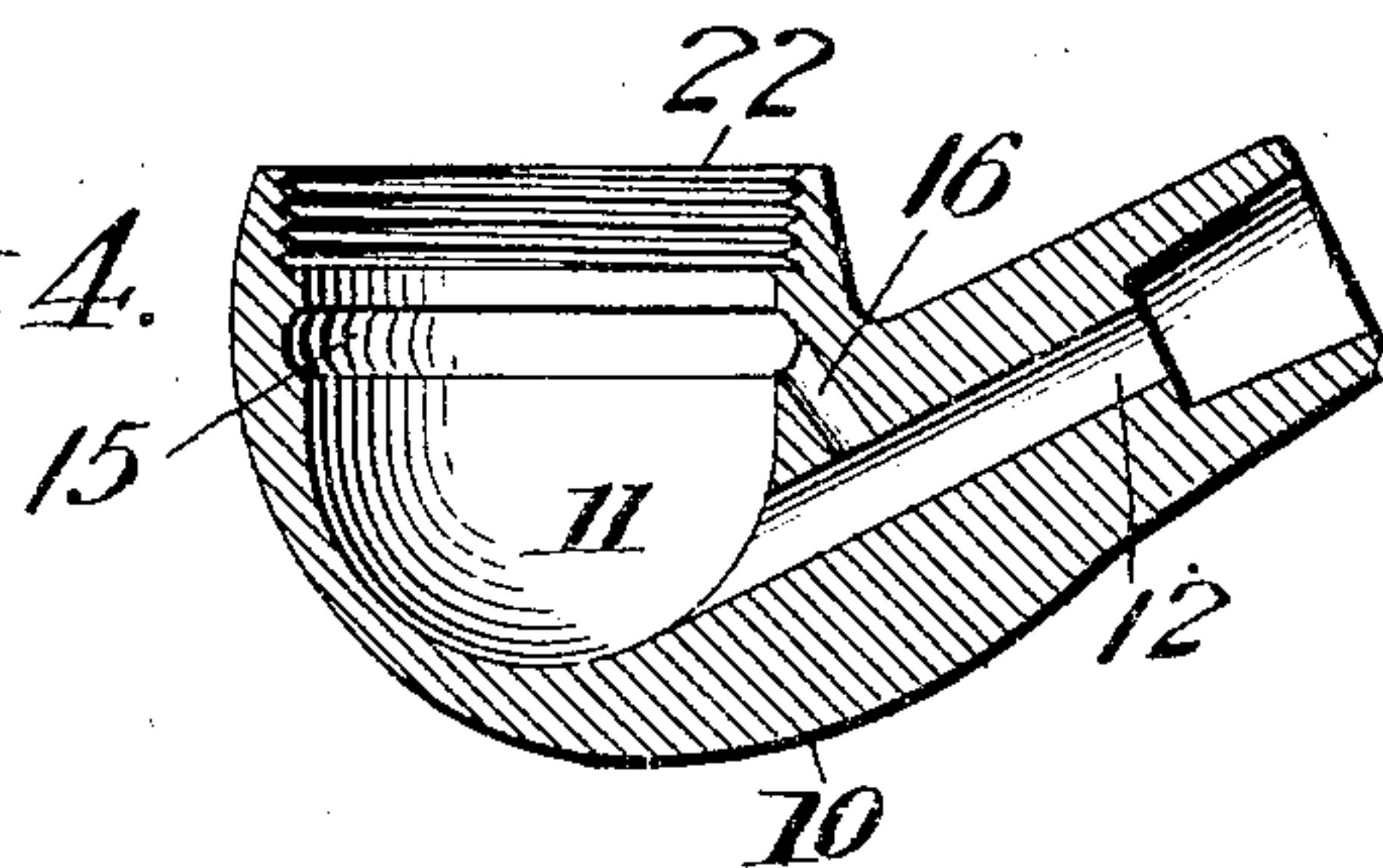
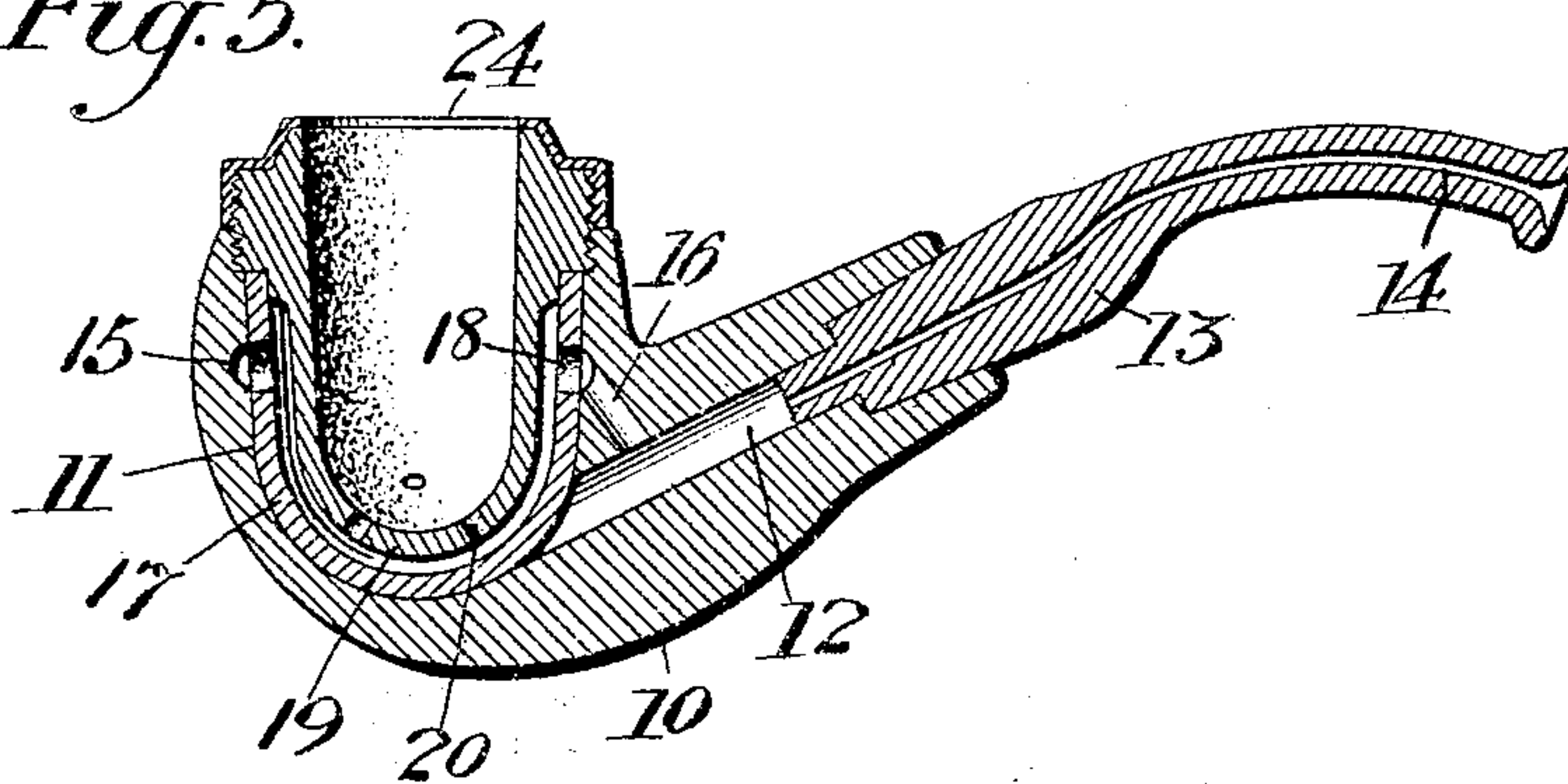


Fig. 5.



Witnesses:

D. B. Orwig.

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Inventor:

Harry Willis

by *J. L. Smith* Atty.

UNITED STATES PATENT OFFICE.

HARRY WILLIS, OF DES MOINES, IOWA, ASSIGNOR OF ONE-HALF TO
C. R. PROUTY, OF DES MOINES, IOWA.

TOBACCO-PIPE.

SPECIFICATION forming part of Letters Patent No. 778,817, dated December 27, 1904.

Application filed January 18, 1904. Serial No. 189,579.

To all whom it may concern:

Be it known that I, HARRY WILLIS, a citizen of the United States of America, and a resident of Des Moines, Polk county, Iowa, have invented a new and useful Tobacco-Pipe, of which the following is a specification.

The object of this invention is to provide improved means for smoking tobacco in which the saliva and nicotin are absorbed to a material and considerable extent and collected for removal.

A further object of this invention is to be found in the provision of improved means for cleaning and replenishing the parts of a tobacco-pipe with which the tobacco comes in contact during the operation of smoking the tobacco.

My invention consists in the construction, arrangement, and combination of elements hereinafter set forth, pointed out in my claims, and illustrated by the accompanying drawings, in which—

Figure 1 is a detail sectional view of a metallic band or ring employed on my device. Fig. 2 is a perpendicular section of a detachable tobacco-bowl employed on my device. Fig. 3 is a perpendicular section of an absorbent bowl or lining employed in my device. Fig. 4 is a perpendicular section of the bowl portion or body portion of my improved pipe, the absorbent bowl or lining and the tobacco-bowl being removed. Fig. 5 is a perpendicular section of my improved pipe, all of the parts being assembled as required for use.

In the construction of the device as shown the numeral 10 designates the bowl portion or body portion of a tobacco-pipe, preferably made of wood and shaped as desired to suit varying tastes. The bowl portion 10 is formed with a cavity or chamber 11 and a duct 12, leading tangentially from the bottom of the cavity. The extremity of the duct 12 is enlarged for the reception of a stem 13 and is of materially greater diameter than the duct or passage 14 in said stem. An annular groove 15 is formed in the upper portion of the bowl portion 10 and opens to and surrounds the cavity 11 therein. A by-pass duct or passage 16 is formed in the bowl por-

tion 10 and affords communication between the duct 12 and the annular groove 15.

An absorbent bowl 17 is provided, preferably of concavo-convex form, and is made of any desired absorbent material. The absorbent bowl 17 is removably and replaceably mounted in the cavity 11 of the bowl portion 10 of the pipe, and the lower closed end of said bowl 17 closes and fills the lower portion of said cavity and crosses the lower end of the duct 12. Draft-ports 18 are formed in the wall of the bowl 17 and communicate with the groove 15 of the portion 10. Thus is provision made for communication between the ports 18 and the duct 12 through the groove 15 and by-pass 16 regardless of the position of said ports circumferentially of the bowl portion 10. The absorbent bowl 17 may be removed and cleaned or thrown away when desired and be substituted by another of identical character at the convenience of the user and when in use receives and absorbs a material and considerable portion of nicotin and saliva, both from direct contact with passing smoke and from the draining of the duct 12 thereto.

A tobacco-bowl 19 is provided, preferably made of hardened clay or other heat-resisting and porous material, and is removably and replaceably mounted with its lower end portion in the absorbent bowl 17. Draft-ports 20 are formed in the lower and otherwise closed portion of the tobacco-bowl 19, and said ports communicate with the cavity of the lower portion of the absorbent bowl. An annular boss 21 is formed on the upper portion of the tobacco-bowl 19 and is exteriorly screw-threaded to receive screw-threads 22 on the interior of the mouth of the cavity 11. The tobacco-bowl 19 is seated in the cavity 11 by screwing the annular boss 21 into the mouth of said cavity, and the lower portion of said bowl is received loosely in but not in contact with the concavo-convex portion of the absorbent bowl 17. The upper portion of the annular boss 21 of the tobacco-bowl is formed with screw-threads 23, pitched in a direction reversely to the threads on the lower portion thereof, and a metallic band or ring 24, which

may be plain or of ornate form, is screwed on said threads 23 and rests against the outer margin of the mouth of the bowl portion 10, while the lower margin of the boss 21 rests on the outer end of the absorbent bowl and holds it on the bowl portion.

I claim as my invention—

1. A tobacco-pipe, comprising the bowl portion formed with an interior annular groove near its mouth, the stem portion on the bowl portion, an absorbent bowl in the bowl portion and formed with ports communicating with said annular groove, a tobacco-bowl in and formed with ports communicating with the absorbent bowl, and draft-ports in the bowl portion and stem and communicating with said groove.

2. A tobacco-pipe, comprising a bowl portion formed with a cavity and a duct leading tangentially from the bottom of said cavity, the stem communicating with said duct, the by-pass communicating between the duct and cavity above the opening of the duct to the cavity, the groove in the cavity of the bowl portion communicating with said by-pass, the absorbent bowl in the cavity and formed with draft-ports communicating with said groove,

the tobacco-bowl in the absorbent bowl and formed with draft-ports communicating with the cavity of the absorbent bowl, and a band on the tobacco-bowl.

3. In a tobacco-pipe, the combination of the bowl portion formed with a cavity, a groove opening to said cavity, a duct leading tangentially from the bottom of the cavity and a by-pass communication between the duct and groove, an absorbent bowl in the cavity and formed with ports communicating with said groove, a tobacco-bowl in said cavity and formed with a draft-port communicating with the cavity of the absorbent bowl, and a stem for said bowl portion.

4. In a tobacco-pipe, the combination of the bowl portion and stem, the absorbent bowl in the bowl portion, the tobacco-bowl screwed in the bowl portion and contacting with the absorbent bowl, and a band screwed on the tobacco-bowl.

Signed by me at Des Moines, Iowa, this 10th day of December, 1903.

HARRY WILLIS.

Witnesses:

S. C. SWEET,
R. G. ORWIG.