

No. 881,845

PATENTED MAR. 10, 1908.

A. K. BOWMAN.

PIPE.

APPLICATION FILED MAY 27, 1907.

Fig. 1.

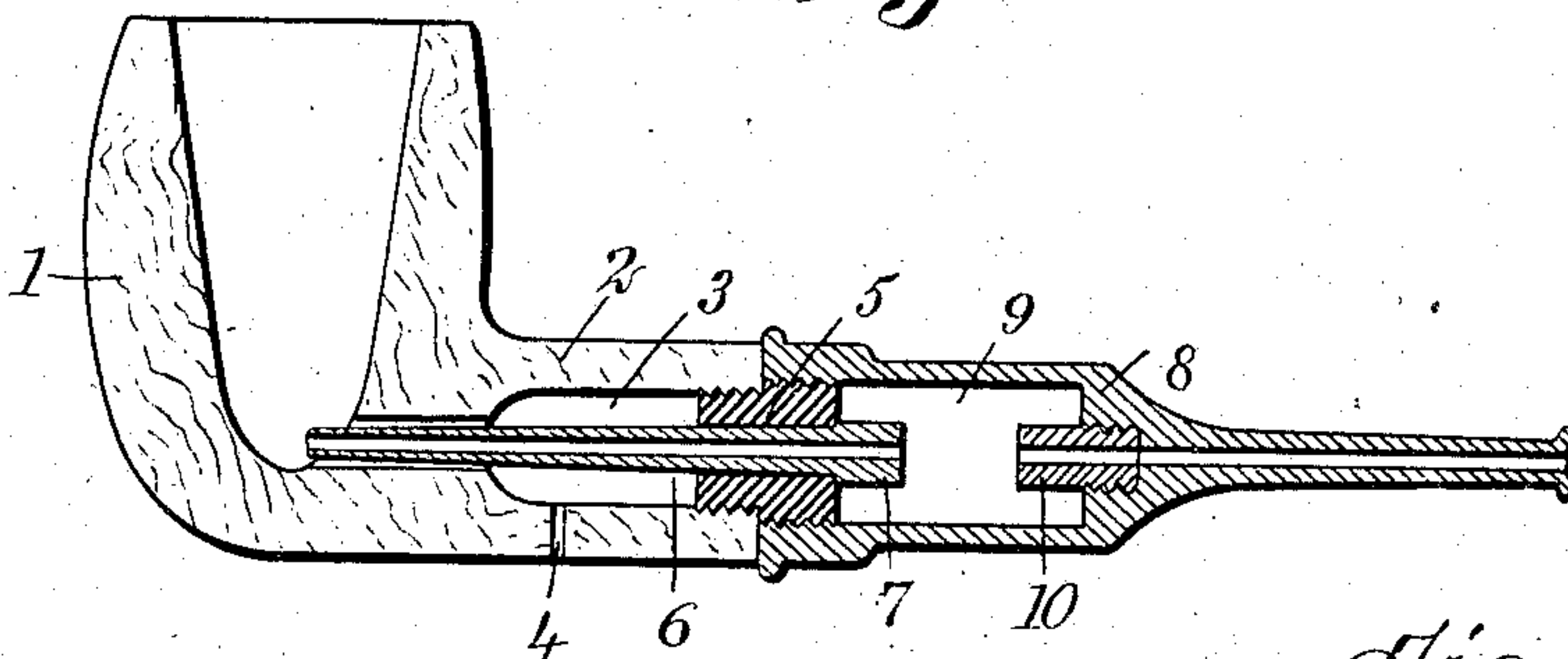


Fig. 3.

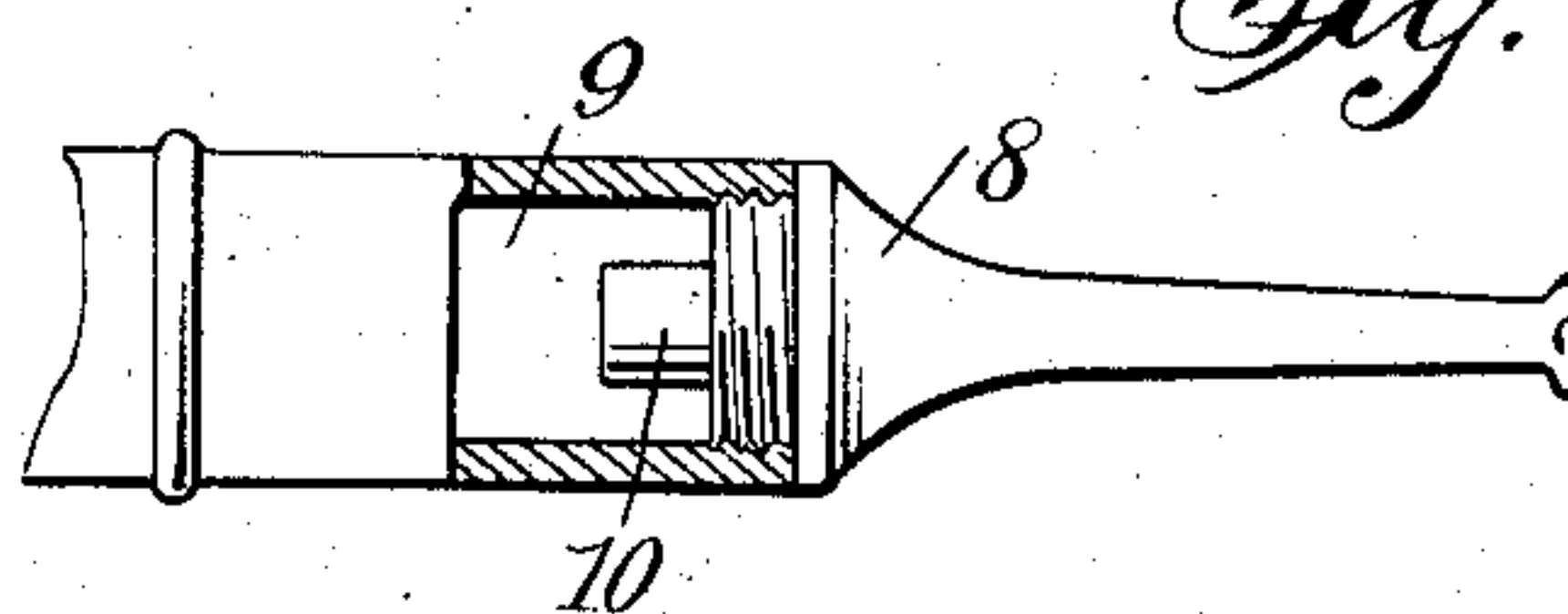


Fig. 2.

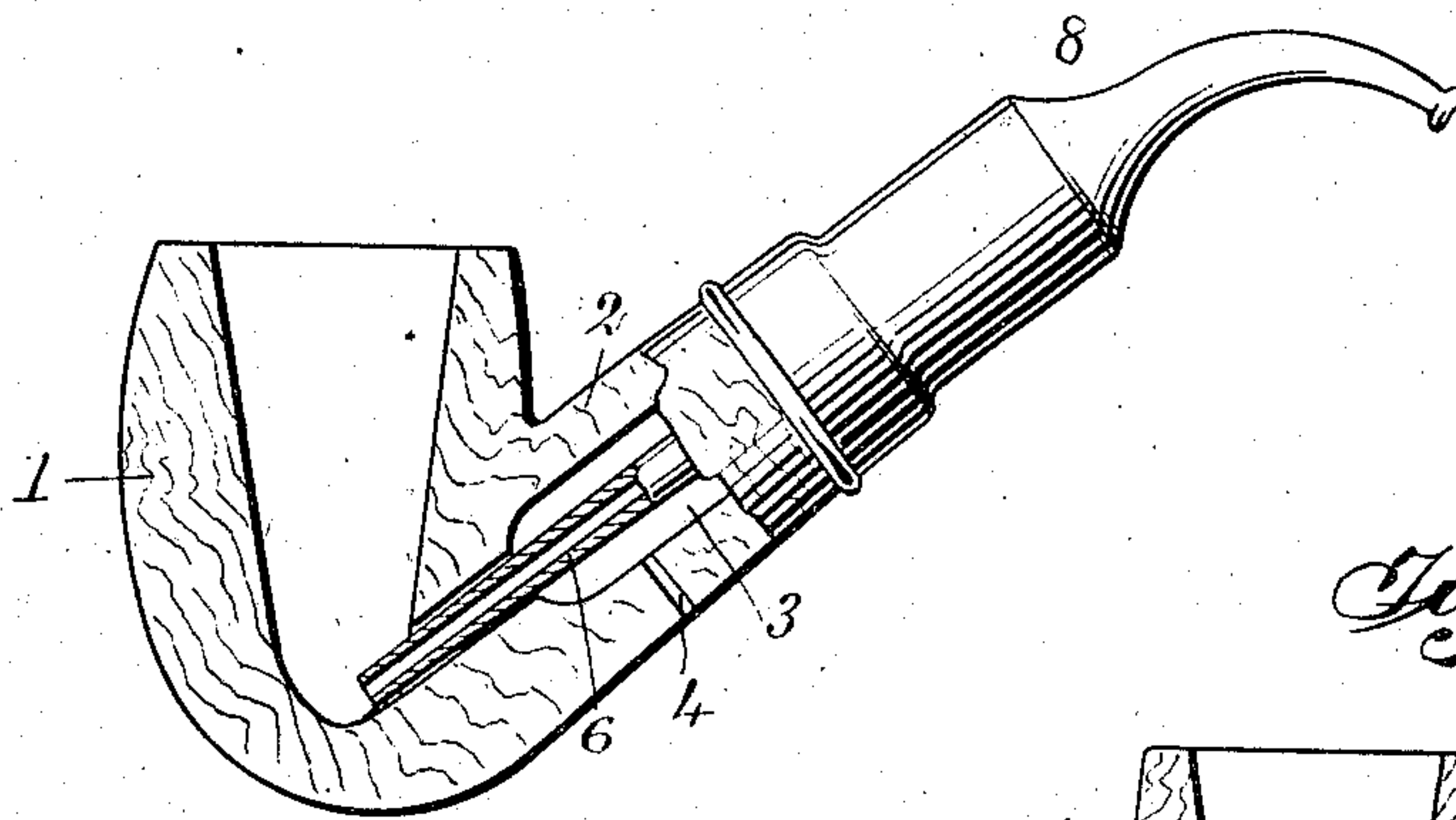
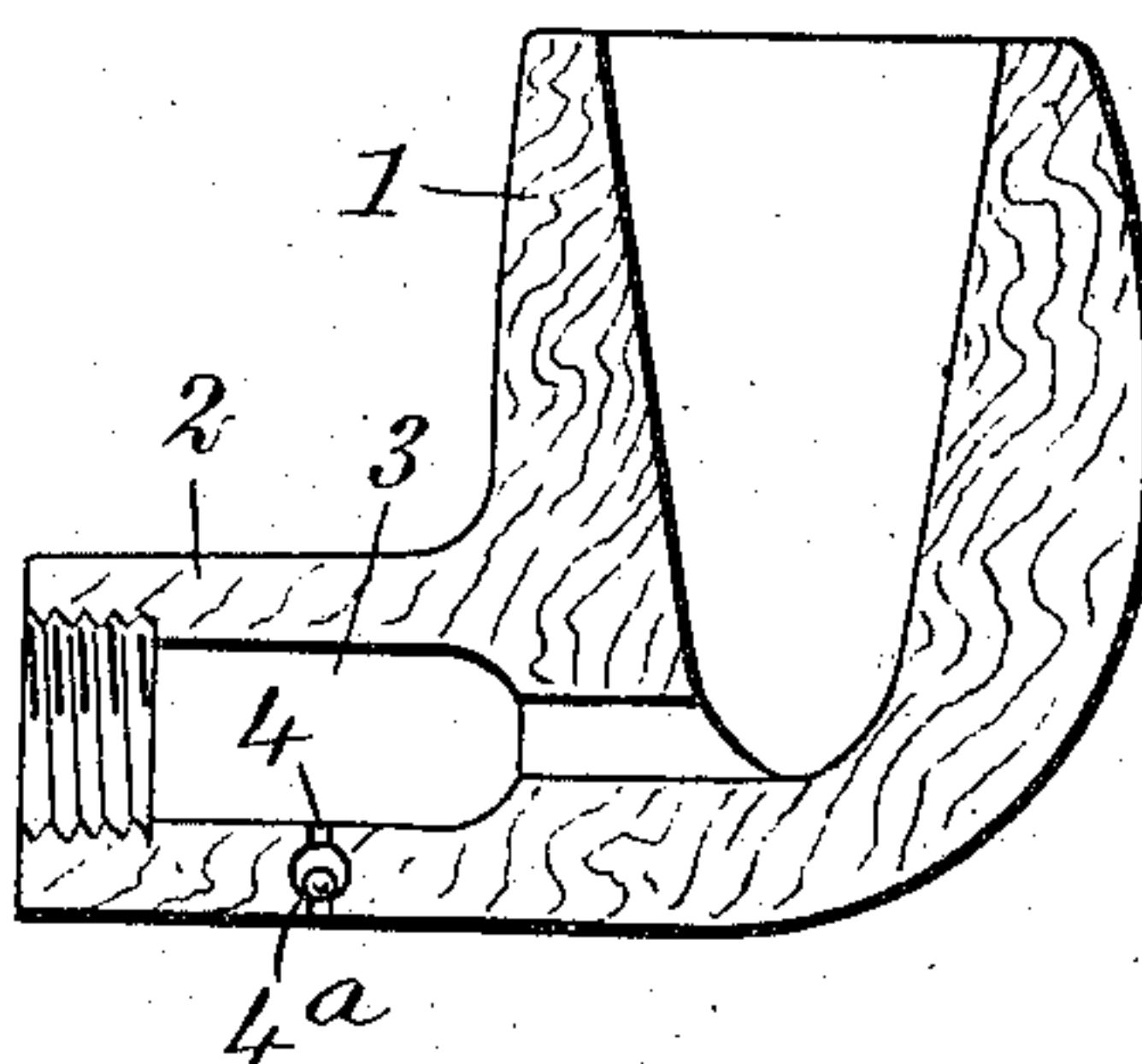


Fig. 4.



WITNESSES

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PIPE.

No. 881,845.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed May 27, 1907. Serial No. 375,899.

To all whom it may concern:

Be it known that I, ALLAN K. BOWMAN, a citizen of the United States, and a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Pipe, of which the following is a full, clear, and exact description.

My invention resides in certain new and useful improvements in tobacco pipes, objects of which are to provide a construction of this character which will arrest the nicotine and other poisonous matter from the tobacco before reaching the mouth; collect and confine the saliva as well as the residue from the smoke as it passes in the direction of the bowl; cooling the smoke and the stem of the bowl, whereby a cool and fragrant smoke is assured, and to provide for the uniform burning of the tobacco within the bowl as by effecting a central draft therein. These objects and others are accomplished by my invention, one embodiment of which is hereinafter disclosed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a central vertical section with the preferred type of my improvement applied to a straight-stemmed pipe; Fig. 2 is a side view partly in central, vertical section, of a curved stem pipe embodying my invention; Fig. 3 illustrates a modified form of stem differing from those shown in Figs. 1 and 2, only that it is made in two pieces, and Fig. 4 is a vertical section of a pipe bowl as shown in Fig. 3, showing the same provided with a ball valve in the air intake opening.

The preferred form of my improved pipe as constructed in practice, comprises a bowl 1 composed of any desired material and of any outward conformation, the bowl 1 shown in Fig. 1 being provided with a stem portion 2 arranged at substantially right angles thereto, as is the usual construction for straight-stem pipes, and the stem portion 2 of the bowl 1 shown in Fig. 2 being formed at an inclination as in the ordinary curved stem pipe. In either case the stem portion 2 of the bowl is counterbored from its outer end to provide a chamber 3, which has an aperture 4 passing through the bottom of the stem, serving as an air intake opening. The outer end of this chamber 3 is interiorly threaded for receiving an exteriorly-threaded plug 5, the latter hav-

ing a central aperture through which is passed a tube 6 leading to the bowl of the pipe at a point substantially at its center and providing a smoke-way. The tube 6, as shown, is formed slightly tapered with an enlarged head 7 which is placed adjacent to the plug 5, whereby as it is inserted within the plug and pushed to the inward limit of its movement, it will be frictionally retained in position. The opening leading from the chamber 3 into the bowl of the pipe is, as shown, to be of sufficient diameter to provide an annular space surrounding the tube 6 when the latter is in place, whereby the air in its passage through the aperture 4 to the chamber and thence to the bowl of the pipe, is unobstructed.

The projecting end of the plug 5 from the stem portion 2 of the bowl is preferably of slightly increased diameter, to provide a shoulder which limits the extent to which the plug may be threaded in the direction of the bowl. This enlarged portion of the plug receives the detachable stem portion 8 of the pipe, which may be either straight or curved, and is enlarged and counterbored to form a reservoir 9, the end wall of which is preferably provided with a nipple 10 in central alinement with the aperture in the stem 8 and the tube 6.

In Fig. 3 I have shown the stem or bit of the pipe made in two pieces, the counterbored portion of which providing the reservoir 9, being in threaded engagement with the mouth-piece.

Fig. 4 shows the air intake opening 4 provided with a ball valve 4^a, which operates to close said opening at the intervals when there is no suction through the stem. At each puff of the smoker the ball lifts and permits the air to pass as in that form of my invention shown in Figs. 1 and 2. The valve may be found desirable in instances to prevent the fire from dying out in the bowl.

In the use of the pipe, as the smoker draws through the stem, a quantity of air is drawn through the top of the bowl as is usual, and an additional quantity passes through the aperture or air intake opening 4 into the chamber 3 and thence into the bowl of the pipe around the extremity of the tube 6, operating to prevent the tube and stem 2 from becoming heated and thereafter mixing with and cooling off the smoke, rendering the same fragrant and pleasant to the taste. Such residue as passes through the tube or

smoke chamber in the direction of the mouth will be collected and retained within the reservoir 9. This reservoir will obviously also collect the saliva passing from the mouth through the detachable stem.

By reason of the inner extremity of the tube passing to substantially the center of the bowl, a central draft through the bowl will be produced, preventing the tobacco from burning at one side only, which is objectionable mainly for the reason that the flavors produced by the intermixing of the air with the charred and unevenly-burned tobacco, causes a very disagreeable taste and a strong pipe.

It is apparent from the construction illustrated and described, that the pipe may be easily disassembled as by unscrewing the displaceable stem 8, permitting the reservoir 9 to be emptied and the tube 6 withdrawn and cleaned.

The construction described, although being the preferred embodiment of my invention, is, nevertheless, susceptible of numerous modifications falling within the scope of the claims annexed.

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

1. A pipe having a chamber formed in the stem thereof provided with an air intake opening, and a tube passing through said chamber to the bowl of the pipe, said chamber communicating with the bowl of the pipe around said tube.

2. A pipe having a chamber formed in the stem thereof communicating with the bowl of the pipe and provided with an air intake opening, and a tube passing through said chamber to the bowl of the pipe substantially at the bottom center thereof.

3. A pipe having a chamber formed in the stem provided with an air intake opening, a plug carried by the stem, and a tube passing through the plug and chamber to the bowl of the pipe.

4. A pipe having a chamber formed in the integral stem portion thereof communicating with the bowl and provided with an air intake opening, a displaceable stem connected to said integral stem portion having a reservoir, and a tube passing from said reservoir through said chamber to the bowl of the pipe.

5. A pipe having a reservoir formed in the stem thereof, and a removable tube providing communication between said reservoir and the bowl of the pipe.

6. A pipe having a chamber provided with an air intake opening and a reservoir formed in the stem thereof, and means passing through said chamber providing communication between the reservoir and the bowl of the pipe.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses:

ALLAN K. BOWMAN.

Witnesses:

FRANK B. WICKERHAM,
EDW. C. KIM.