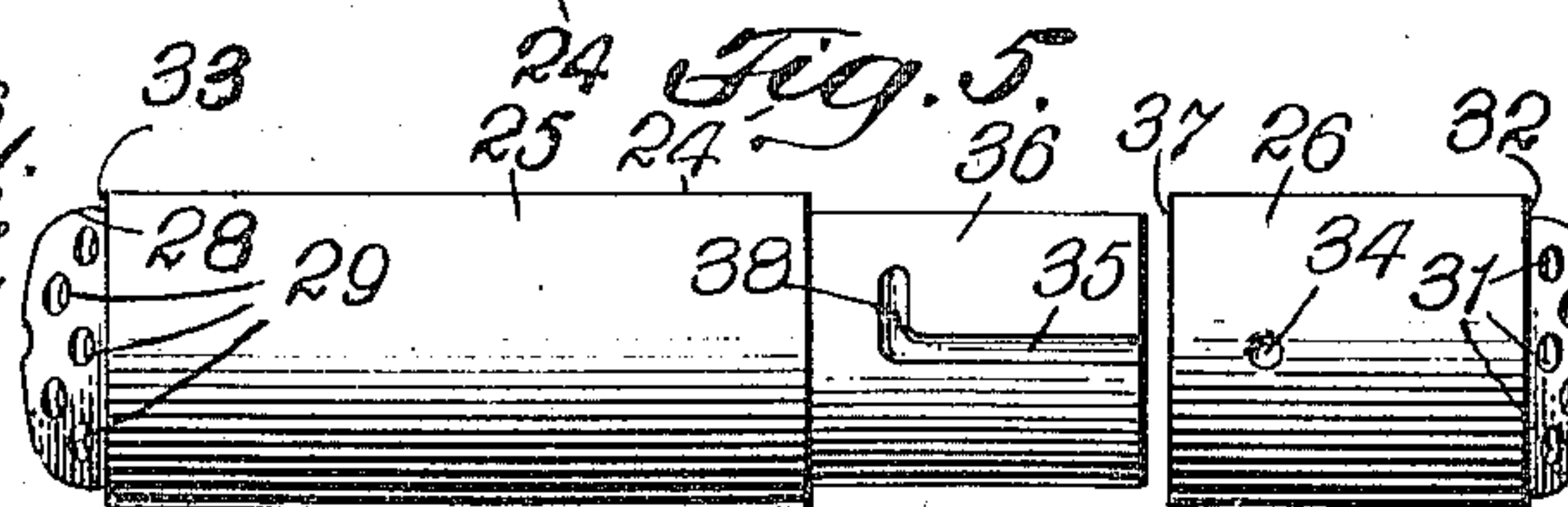
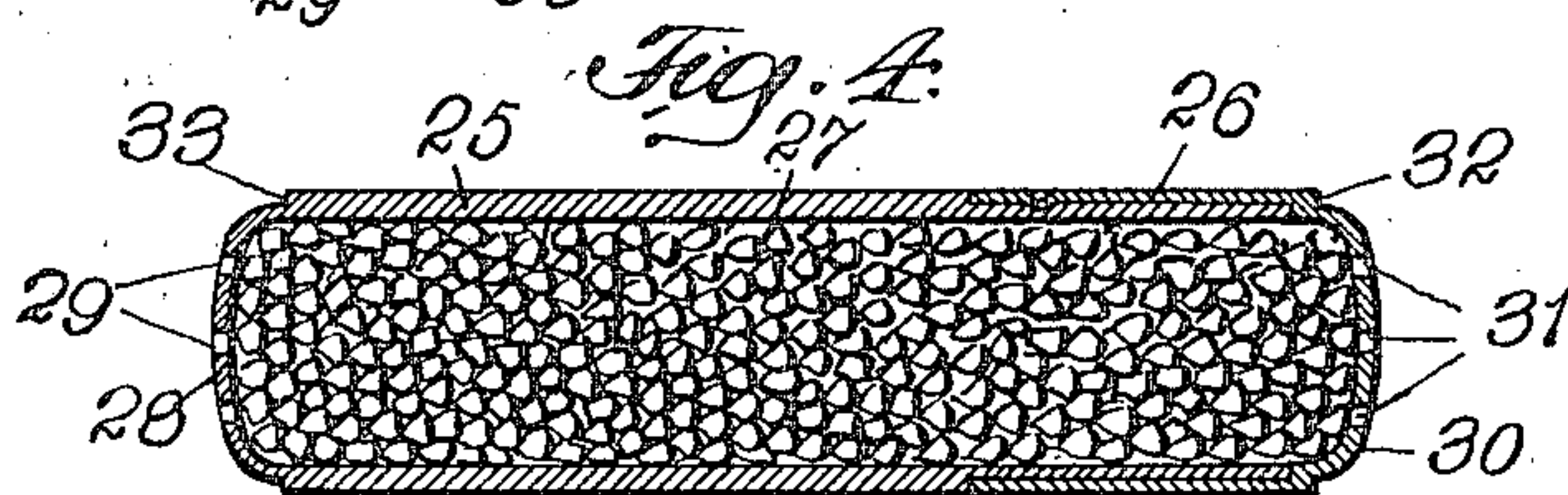
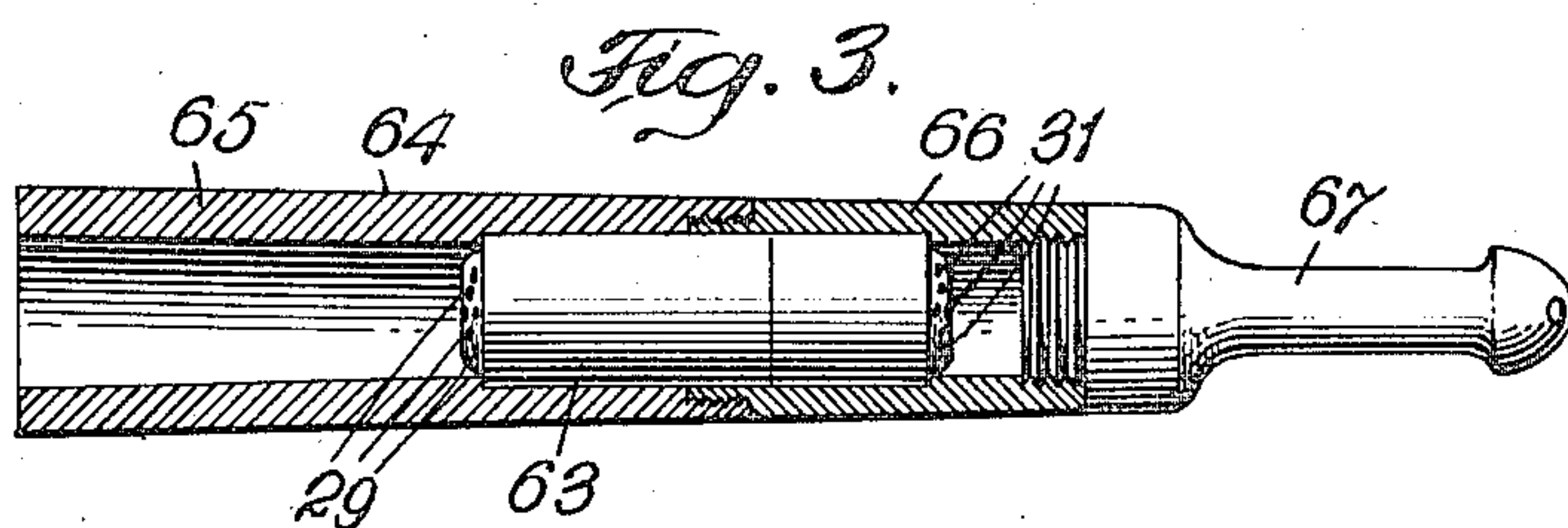
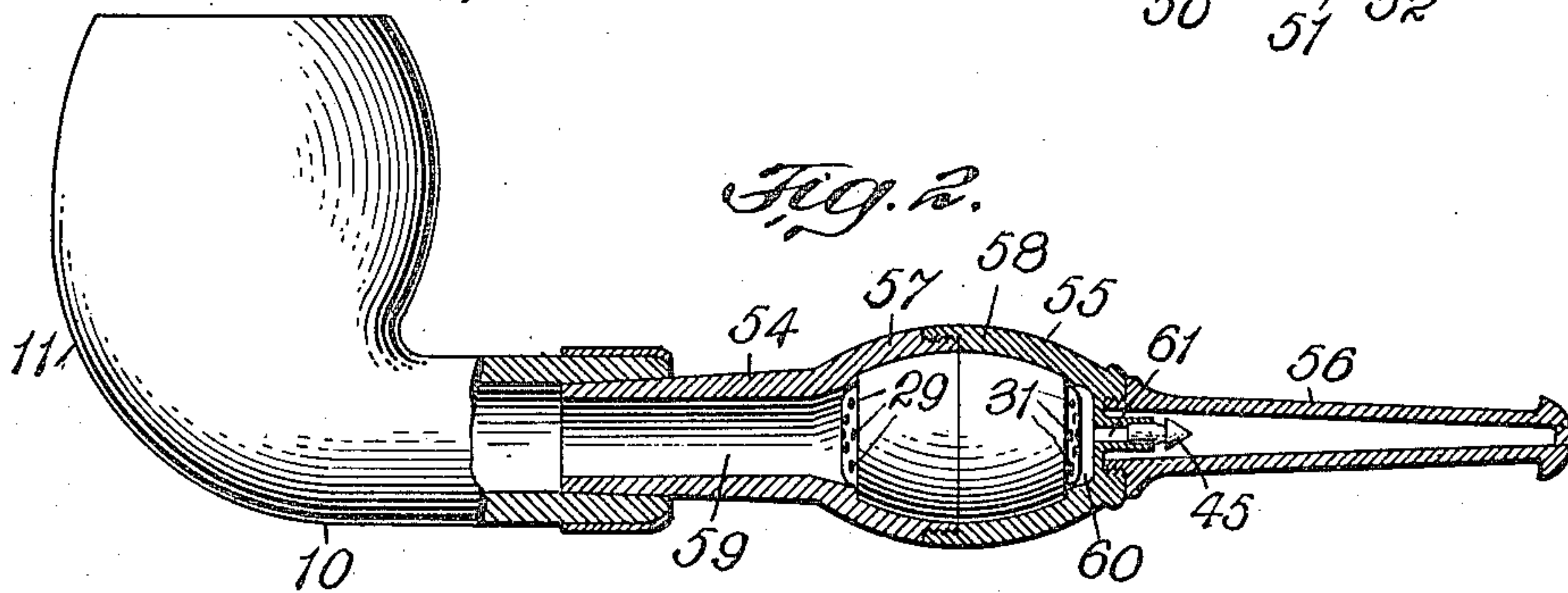
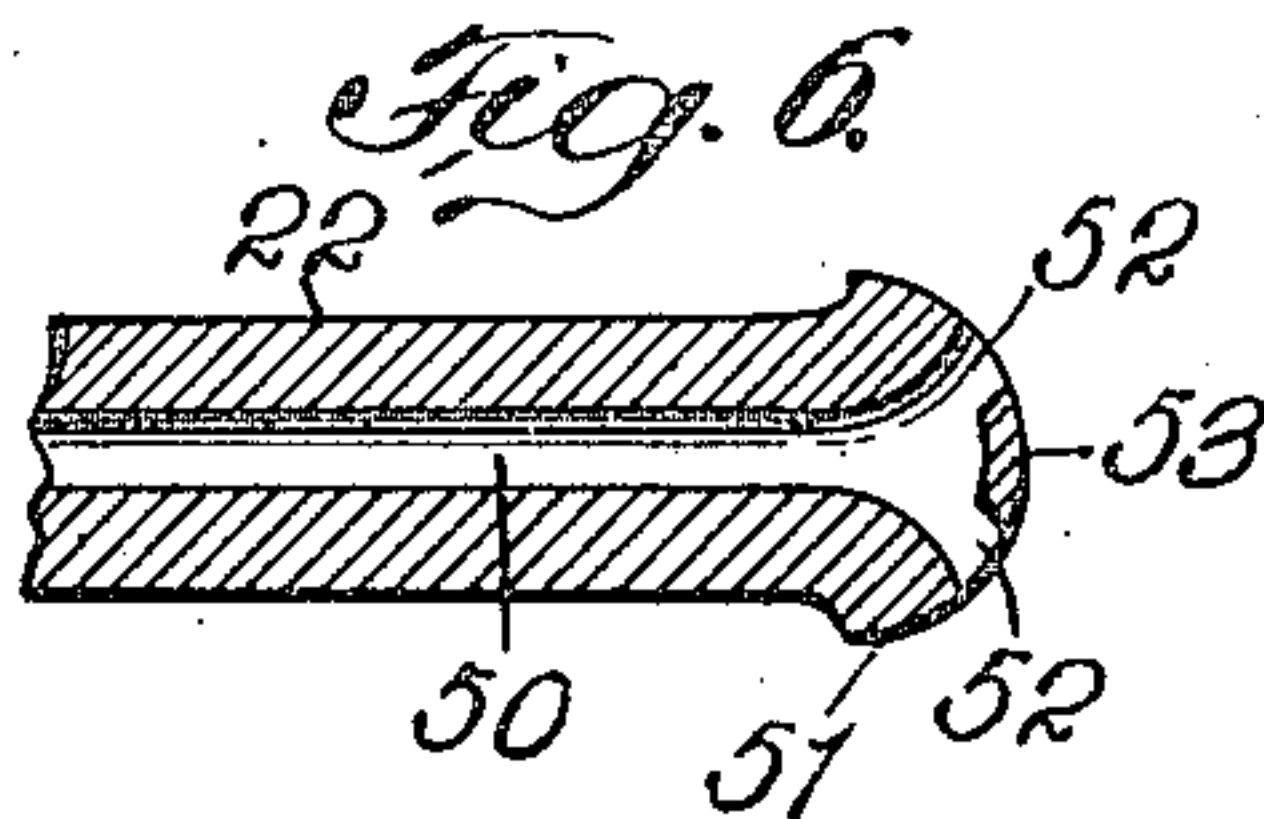
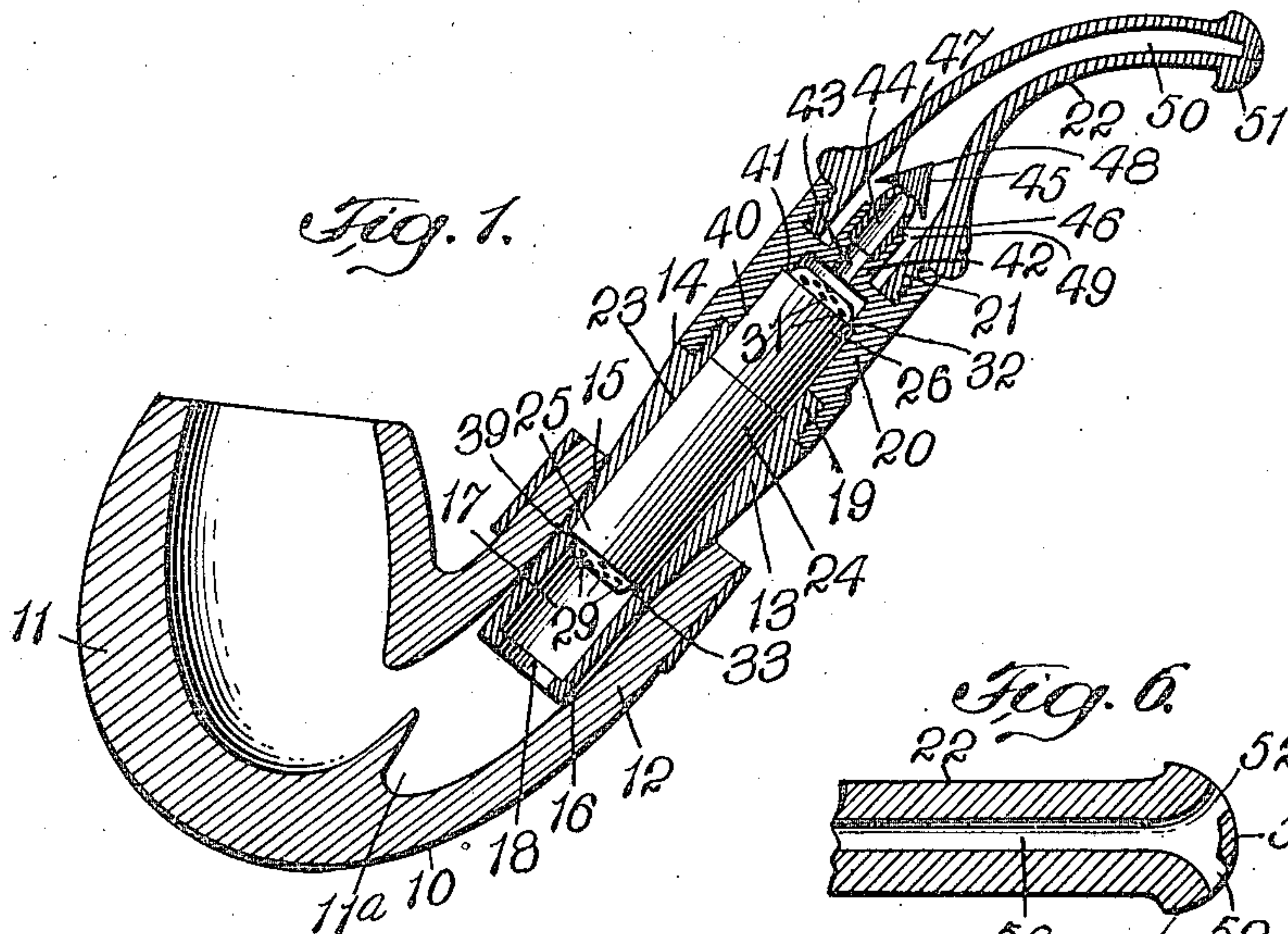


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SMOKING PIPE, &c.  
APPLICATION FILED JAN. 25, 1909.

959,649.

Patented May 31, 1910.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

JUDSON L. THOMSON, OF NEW YORK, N. Y.

SMOKING-PIPE, &c.

959,649.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed January 25, 1909. Serial No. 474,102.

*To all whom it may concern:*

Be it known that I, JUDSON L. THOMSON, a citizen of the United States, and a resident of New York, county and State of New York, have invented certain new and useful Improvements in Smoking-Pipes, &c., of which the following is a full, clear, and exact description.

This invention relates more particularly to a pipe or other article for smokers' use in which the smoke is properly filtered, purified and cooled before entering the mouth.

The primary object of the invention is to provide a simple and efficient means which is adapted to be used in connection with pipes, cigar or cigarette holders of various kinds and which compels the smoke to pass through a filtering material held or confined within a device or receptacle provided therefor so as to properly cool and purify the smoke and remove all heat, dust and moisture therefrom, thereby preventing the tongue from being burned or the throat of the smoker becoming dry and sore, and which is so constructed that it removes the poisonous nicotin which very often results in cancer of the lips, throat, or tongue, and at the same time provides much greater comfort and pleasure in smoking than is obtained from the usual pipe or similar article as ordinarily constructed.

Another object of the invention is to provide means whereby saliva and other moisture may be collected in such a way as to permit the pipe or article to be readily cleaned without permitting the moisture or saliva to injuriously affect the filtering device or the material confined therein.

A further object of the invention is to provide simple and efficient means which may be applied to various constructions of pipes and other articles, which is thoroughly sanitary in its construction, and which is so made that the filtering part of the pipe or article may be quickly removed, cleaned and replaced, or a new one inserted.

With these and other objects in view, the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of this specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is a longitudinal section of one form of pipe embodying my invention. Fig. 2 is a longitudinal section, partly in elevation, of a different form of

pipe. Fig. 3 is an elevation, partly in section, of a cigar or cigarette holder. Fig. 4 is a longitudinal section through the filtering device. Fig. 5 is a side elevation of the two members of the filtering device detached, showing one means for holding the same together; and Fig. 6 is a fragmentary section of the mouth-piece.

The pipe 10 is provided with a bowl 11 of the usual or of any preferred construction which is adapted to contain the smoking tobacco, and which may have a cooling and moisture collecting chamber 11<sup>a</sup>, and projecting from the bowl is an extension 12 in which the part 13 of the stem 14 is adapted to fit. The end 13 may have a tapering portion 15 adapted to fit a tapering opening in the extension 12 of the pipe, and said end or member 13 may be extended inward somewhat, as at 16, to provide a chamber 17, the outer end of which is open, as at 18, for the smoke to pass therein. The member 13 is provided with the threaded stem or part 19 which is adapted to engage a threaded opening in a coupling member 20, the outer end of which is provided with a threaded recess adapted to engage the threaded end 21 of the mouth-piece or member 22, thus forming the stem of three detachable members.

The member 13 is provided with a recess 23 in which is adapted to fit a filtering device 24. As shown this filtering device is cylindrical, and is provided with a casing or body member 25, and a cap or cover member 26 which is detachably held to the body member in any desired way, and confined within the casing of the filtering device is a suitable filtering material 27, as charcoal, which fills substantially the entire space within the casing so as to cause the smoke to come in contact therewith when passing through said device, in order that the smoke may be cooled, purified and any poisonous substance contained therein removed from the smoke. The casing 25 has one end curved, as at 28, and this end is provided with a plurality of openings or apertures 29 for the smoke to enter said openings, and the cap member 26 is also provided with a curved outer portion 30 which has openings or apertures 31 for the passage of the smoke, and said cap member is provided with an annular shoulder 32, while the casing 25 is provided with an annular shoulder 33 for a purpose to be presently described. The cap member 26 may be held to the casing or



body 25 by screw threads, or said cap member may be provided with a depressed portion 34 which is adapted to move in an L-shaped depressed groove or portion 35 formed in the reduced part 36 of the casing 25. The reduced part 36 extends substantially the entire length of the cap member 26 so as to hold the proper quantity of the filtering material when the cap member is removed for any purpose, and said reduced portion normally abuts against an inner shoulder, as at 37, of the cap member. It will be seen that when the cap member is forced inwardly along the part 36, the depressed portion may be made to pass along the longer part of the depressed groove 35 and by giving the cap member a partial rotation, the said depressed part 34 will enter the angular portion 38 of said groove and will lock the cap to the body portion.

The member 13 of the pipe stem has its chamber 17 somewhat smaller in diameter than the chamber or recess 23 in which the body of the filtering device 24 is adapted to fit so as to provide a shoulder 39, and the member 20 of the stem is provided with a recess or chamber 40 into which projects the cap member 26 of said filtering device. The recess or chamber 40 of the member 20 provides a shoulder 41 against which the shoulder 32 of the cap member of the filtering device is adapted to rest, the shoulder 33 of the filtering device normally resting against the shoulder 39 of the member 13, thus the members 13 and 20 with the recesses 23 and 40 form a confining chamber for the filtering device between the shoulders of which the filtering device is positively held so as to form a seal therewith. The threaded portion 19 of the member 13 is so made with respect to the position of the shoulders 39 and 41, that on the last one or two turns of the thread in joining the member 20 to the member 13, the shoulders of the device 24 will be forced against the shoulders of the members 13 and 20 of the stem, thus preventing the smoke from passing around said filtering device, and causing the same to pass through and come in contact with the filtering material contained therein.

To collect the saliva and to prevent the same from entering the filtering device and also to permit the saliva to be readily removed, I provide the member 20 with an extended and reduced portion 42 through which is an opening 43 communicating with the space or chamber 44 at one end of the filtering device, and fitting said extension 42 is a device 45. The stem 46 of the device 45 is adapted to detachably fit a recess in the extension 42, and said stem is provided with lateral openings 47 for the exit of the smoke, and adjacent to said lateral openings is a head or end 48 serving as a deflector for the smoke and as a means to prevent the saliva

from passing into the stem and back to the filtering device. The head 48 may be substantially conical in form, and around the extension and the device 45 is a chamber 49 which is large enough for the saliva to collect, and said chamber extends below the openings 47 so that the pipe may be readily cleaned before the saliva has collected in such quantity as to flow back into the pipe through the filtering device.

The member or mouth-piece 22 may have a contracted opening 50 extending there-through, and the outer end of said member may be enlarged, as at 51. The contracted opening 50 may be flared outwardly at the enlarged part 51 to provide two or more lateral openings 52 formed by a deflector 53 which may be concaved at its inner surface. The purpose of the lateral openings 52 and deflector 53 is to prevent the smoke from concentrating at a single point on the tongue of the smoker, which often results in injury to the tongue.

In Fig. 2, the construction of the pipe is substantially the same as described in connection with Fig. 1, so far as the saliva connection and the manner of holding a filtering device within the stem of the pipe and forming the pipe stem of three detachable members is concerned. As shown there are three members 54, 55 and 56, the latter being the mouth-piece or member, and the member 55 serving to couple and hold the member 56 to the member 54. The filtering device may be located substantially centrally between the members 54 and 55, and said device may be constructed substantially the same as the device 24, except that it has a curved and substantially oval-body portion which is adapted to fit in a chamber of the same form within the members 54 and 55 so as to be locked and detachably held between the shoulders 57 of the member 54 and the shoulder 58 of the coupling member 55. A space or chamber 59 may be located on one side of the filtering device, and a space or chamber 60 may be located on the opposite side of said filtering device, the smoke being adapted to pass through the filtering device and through an extension 61 into the member 56 as already described.

Fig. 3 shows how the filtering device 63 may be held within a cigar or cigarette holder 64. This holder may comprise a stem formed of the members 65, 66 and 67, the member 66 serving to couple the members 67 and 65 together. In this case as in the other forms, the filtering device may be detachably held between two shoulders and within a recess formed in the members, so that said filtering device may be removed at will and cleaned or refilled or replaced as desired.

From the foregoing it will be seen that a simple and efficient pipe or smokers' article is provided in which the smoke is caused to



positively pass through a filtering device in such a way as to cool the smoke and remove the moisture and nicotin or other poisonous matter from the smoke; that simple means  
 5 are provided for collecting the moisture and for holding the saliva in such a way that it will not pass through the filtering device to injuriously affect the same; and that a simple and efficient filtering device is provided  
 10 which may be employed in connection with various forms of pipes or other articles.

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

15 1. A pipe comprising a bowl, and a stem consisting of detachable sections formed with internal shoulders, in combination with a filtering device provided with perforated ends and with annular shoulders adjacent  
 20 said ends.

2. The combination with a pipe comprising a bowl and a stem made up of detachable sections provided with internal shoulders of  
 25 a filtering device consisting of a cylindrical body portion perforated at one end and formed with an external shoulder, and having its opposite end circumferentially reduced and a perforated cap formed with an external shoulder, and fitting upon the  
 30 reduced end of the body portion.

3. A smoker's article having a chamber formed with confronting annular shoulders, in combination with a filtering device of

cylindrical form consisting of a body portion perforated at one end, and reduced at  
 35 its opposite end, and formed with an external shoulder, and a removable perforated cap fitting upon the reduced end of the body portion, and formed with an external  
 40 shoulder.

4. A smoker's article, a filtering device comprising a casing formed with an end having openings therethrough, and with a  
 shoulder adjacent to said end, a cap member provided with a perforated outer end, and  
 45 with a shoulder adjacent to said end, and a filtering material confined between the cap member and the casing within the same.

5. In a smoker's article, a filtering device comprising a casing having openings there-  
 50 through at one end, and with a shoulder adjacent to said end, said casing having a reduced portion, a cap member detachably held to the reduced portion, said cap mem-  
 55 ber being provided with a perforated outer end, and with a shoulder adjacent to said end, and a filtering material confined between the cap member and the casing within the same.

This specification signed and witnessed  
 60 this 21st day of January A. D. 1909.

JUDSON L. THOMSON.

Witnesses:

W. A. TOWNER, Jr.,  
 L. I. MAYER.