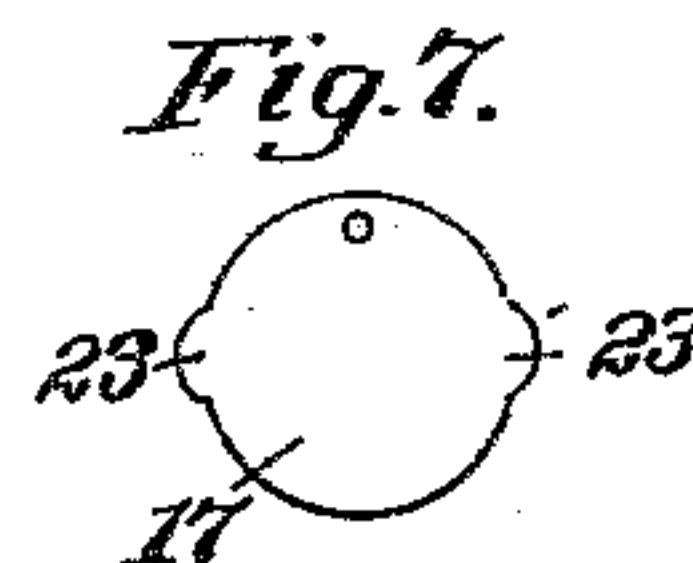
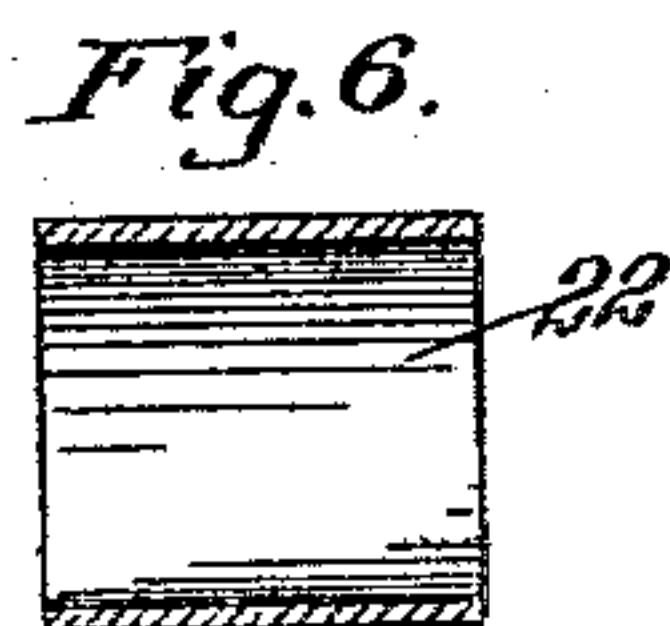
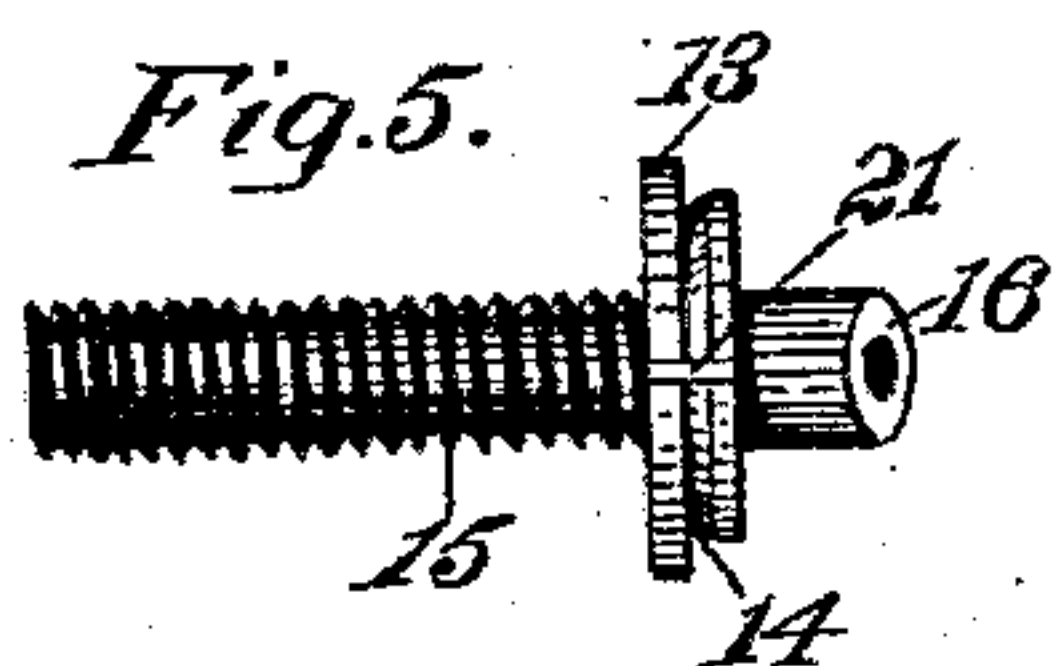
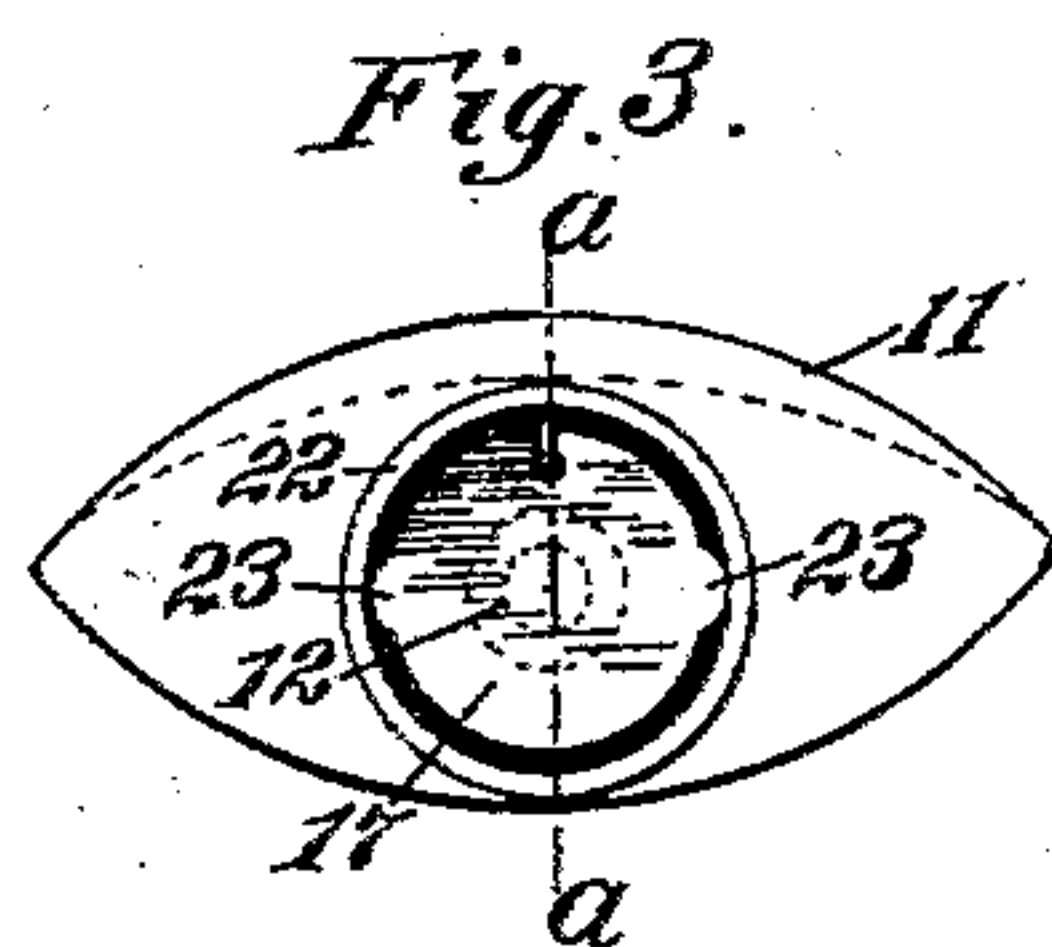
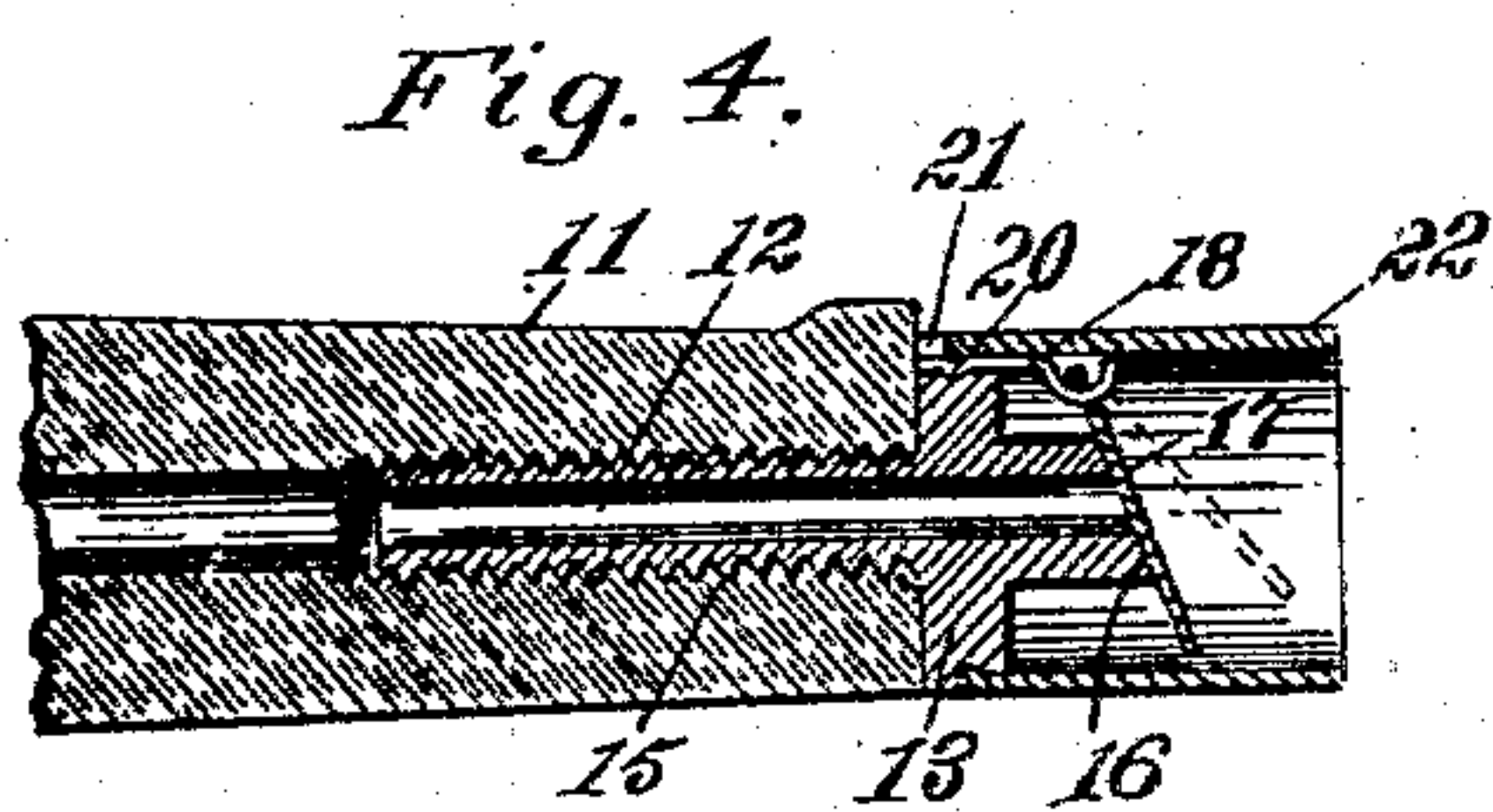
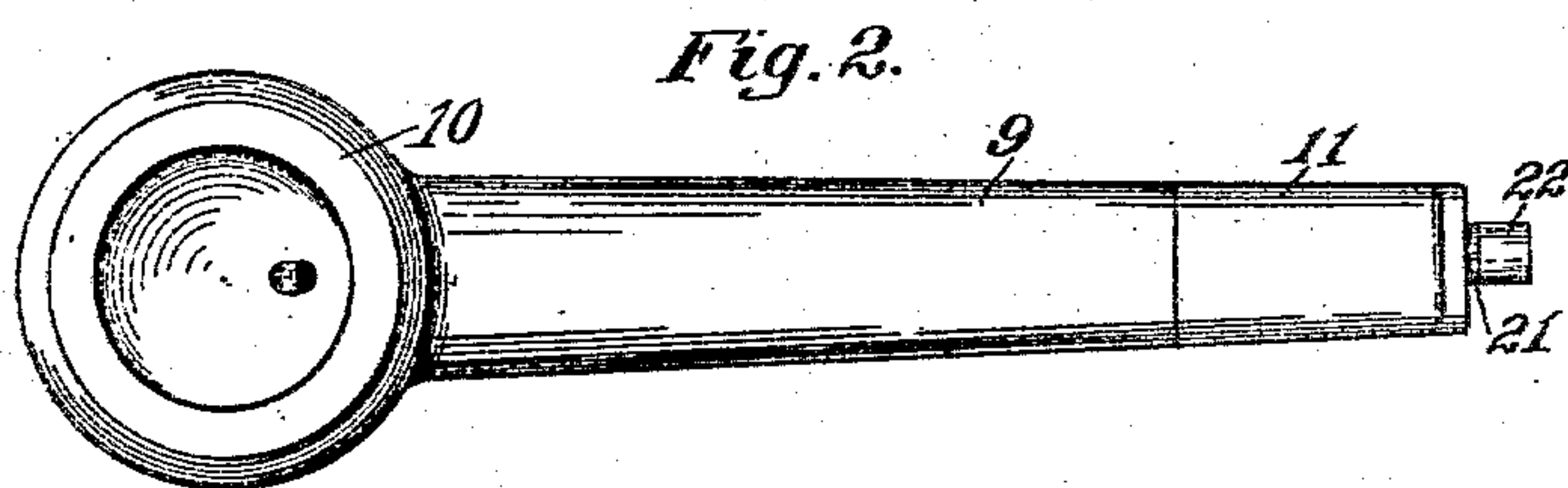
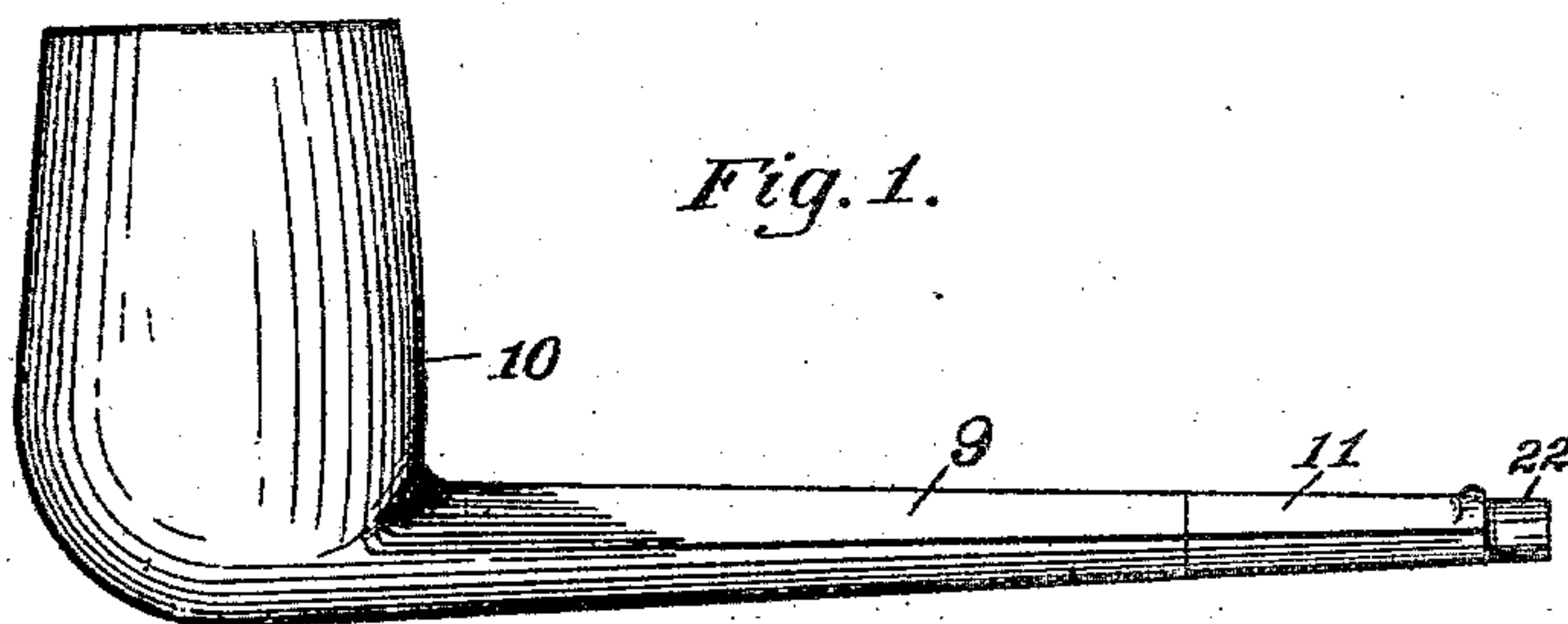


(No Model.)

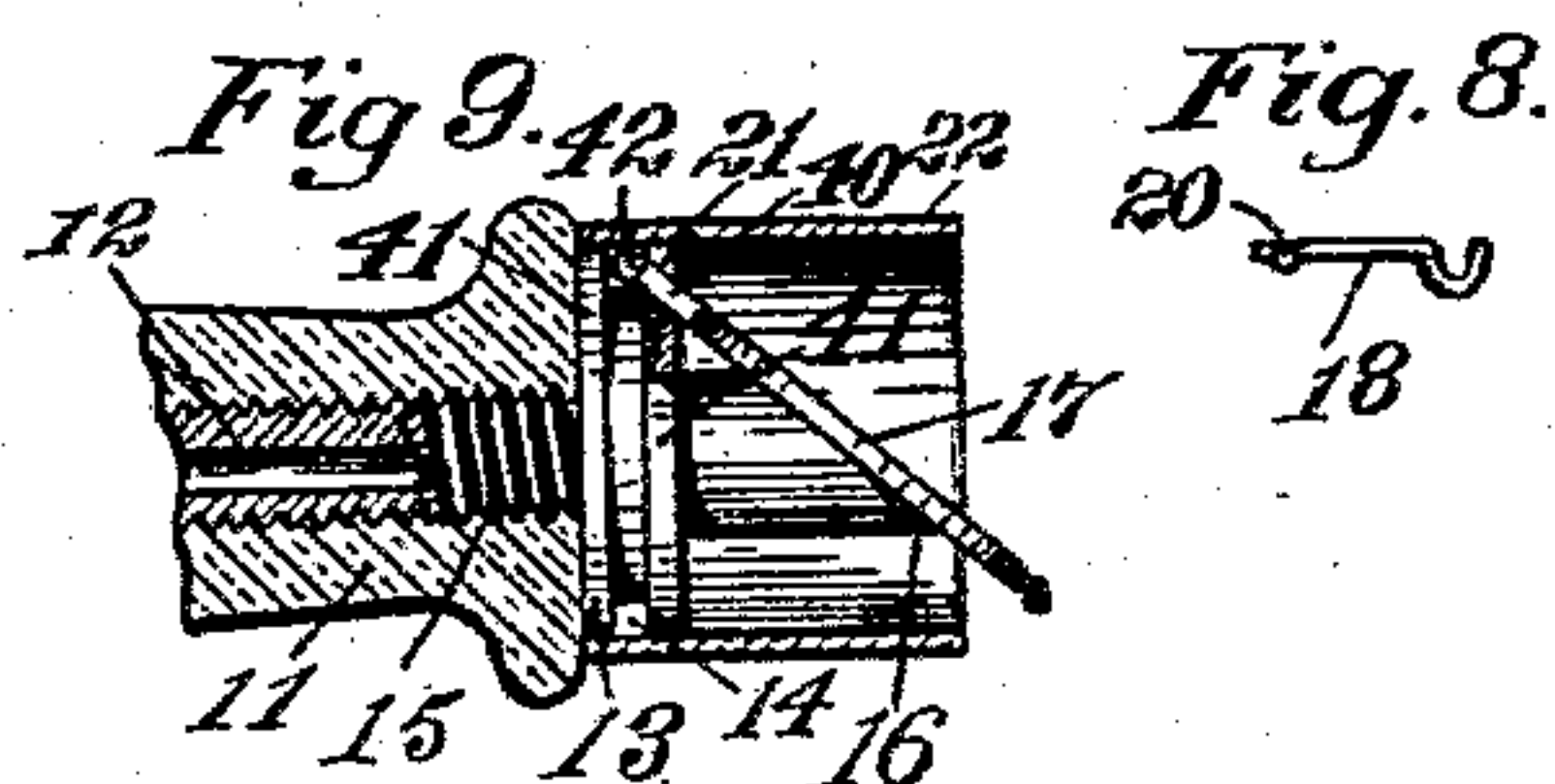
C. E. RIECKER.
TOBACCO PIPE.

No. 553,074.

Patented Jan. 14, 1896.



Witnesses:
R. W. Pittman
Fred. J. Dole.



Inventor:
Charles E. Riecker:
By his Attorney
F. A. Richards.

UNITED STATES PATENT OFFICE.

CHARLES E. RIECKER, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR OF
TWO-THIRDS TO EDMUND A. SCHADE AND ANDREW TURNBULL, OF
SAME PLACE.

TOBACCO-PIPE.

SPECIFICATION forming part of Letters Patent No. 553,074, dated January 14, 1896.

Application filed September 3, 1895. Serial No. 561,256. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. RIECKER, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Tobacco-Pipes, of which the following is a specification.

This invention relates to smoking-pipes—such, for instance, as tobacco-pipes—and the object of the invention is to provide a device in connection with such pipes or other smoking devices whereby the saliva, spittle, or moisture from the mouth of the user will be prevented from entering the smoke-passage of the pipe-stem, and whereby the mixture of such moisture with the nicotine and the consequent adhering of the mixture to the walls of the smoke-passage to clog the same are prevented.

A further object of the invention is to provide a device, in connection with a pipe-stem or the mouthpiece thereof, whereby the entrance of the moisture from the mouth of the user will be prevented and the consequent formation of obnoxious odors in the pipe-stem, usually caused by the mixture of such moisture and nicotine, prevented.

A further object of the invention is to provide a device, such as a suitable valve, located in the pipe-stem or mouthpiece at any suitable place therein adjacent to the smoke-passage, whereby the moisture from the mouth of the user will be practically prevented from entering the smoke-passage of the pipe-stem and the passage-way kept dry and sweet for the passage of the smoke and the consequent adhering of the nicotine to the walls of the passage-way prevented.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of a tobacco-pipe having this improved device attached thereto. Fig. 2 is a top view thereof. Fig. 3 is an end view, on an enlarged scale, of a mouthpiece, showing this improved device attached thereto. Fig. 4 is a sectional view of a portion of the mouthpiece, taken in line *a a*, Fig. 3, and showing the different positions of the valve. Fig. 5 is an enlarged detail view of the detachable plug forming the valve-seat and a part of the

smoke-passage. Fig. 6 is a longitudinal sectional view of the mouth-tip or valve-casing. Fig. 7 is a detail of the valve-cap. Fig. 8 is a view of the fastening means for securing the valve-cap into position adjacent to the valve-seat; and Fig. 9 is a view similar to Fig. 4, showing a modification of this improved device.

Similar characters designate like parts in all the figures of the drawings.

This improved device is adapted for attachment to a cigar, cheroot, or cigarette holder or similar device, but for the purposes of this specification it will be herein described in connection with a tobacco-pipe.

The stem 9 of the tobacco-pipe 10 is of any desired construction and preferably has a suitable detachable mouthpiece 11 secured thereto in any suitable way, and to the outer end of which this improved device is adapted to be applied. It will be obvious, however, that the detachable mouthpiece might be dispensed with and the device attached directly to the pipe-stem, if desired, and in this connection it will be understood that the words “stem” or “pipe-stem,” used in the description and claims, are intended to mean any device having a smoke-passage and used in a similar way as a pipe and with or without a detachable mouthpiece. The mouthpiece 11 is provided, adjacent to its free end, with interior screw-threads surrounding the usual smoke-passage 12.

The device for preventing the entrance of moisture into the pipe-stem comprises a suitable valve, protected by a casing terminating the free end of the pipe-stem, and operative to permit the egress of smoke on the suction of the user, but automatically operative to close the smoke-passage when the user ceases to draw on the stem, whereby moisture from the mouth of the user will be prevented from entering such smoke-passage, and in the preferred form thereof herein shown and described it preferably consists of a cylindrical apertured plug 13 of any suitable construction adapted for the purpose, having an annular recess or groove 14 in its exterior face for the purpose hereinafter set forth. This plug 13 is provided with an elongated apertured stem

15, preferably integrally connected therewith, and having exterior screw-threads adapted to mesh with the screw-threads of the mouthpiece 11, when such mouthpiece is used, or to be screwed into the end of the pipe-stem. The screw-threads might, however, be dispensed with, if desired, and the stem held by frictional engagement with the walls of the aperture. This plug is adapted to engage and rest against the free end of the mouthpiece or stem, and is provided with an inclined beveled outer face forming a valve-seat 16. Removably secured by the valve-casing for swinging or oscillatory movement in any suitable way adjacent to the valve-seat 16 is a valve-cap 17 of any suitable construction.

The means herein shown in the preferred form thereof for securing the valve-cap 17 in position adjacent to its valve-seat 16 comprises a hook 18, adapted to project through an aperture in said cap to support the same. This hook has its opposite end, by means of a bulging part 20, resting within a transverse slot or groove 21 formed in the plug.

As a means for removably securing the hook and valve-cap in place onto the plug a preferably tubular tip or valve-casing 22 surrounds the valve-cap and is pressed over the hook, and has its inner edge flanged or bent inwardly to engage the annular groove 14 and the concavity of the bulging part of the hook, whereby the valve-cap and hook are prevented from becoming detached.

In order to prevent the valve-cap 17 from swinging too far from its seat, it is provided with lateral ears or projections 23, which abut against the interior wall of the tubular tip or valve-casing 22 when the cap swings outwardly, and thus the same is prevented from swinging too far from its seat.

The valve-cap 17 is preferably of somewhat less cross-sectional area than the tip or valve-casing 22, whereby the smoke can find egress around the same when the cap is resting on its valve-seat, and whereby the smoke will not be retained in that part of the tip or valve-casing in the rear of the cap.

In the use of a pipe or other smoking device having this improved device attached thereto the suction of the user will cause the valve-cap to raise or swing outwardly, as shown in dotted line in Fig. 4, to thereby permit the egress of the smoke; but when the user ceases to draw on the pipe the suction ceases, and the cap automatically falls on its seat, and the spittle or moisture usually formed at this period is prevented from entering the pipe-stem and mixing with the nicotine.

By this improved device the mixture of the spittle or moisture from the mouth of the user with the nicotine and the consequent accumulation of such mixture upon the walls of the smoke-passage are thereby prevented, and the passage kept sweet and dry for the passage of the smoke and nicotine therefrom.

By keeping the spittle or moisture from entering the passage of the pipe-stem the nicotine is prevented, to a great extent, from clogging up such passage, and is also prevented from adhering to the walls of the passage-way and thereby creating obnoxious odors.

This device can be quickly and easily attached to pipes already constructed, if desired, by simply having the wall of the apertured pipe-stem or mouthpiece threaded, or the device may be constructed with a smooth or slightly-tapering stem 13, if desired, adapted to be inserted into the ordinary aperture of the pipe-stem or mouthpiece.

In the modification shown in Fig. 9 the plug 13 has its valve-seat so constructed that the valve-cap 17 can extend substantially adjacent to or beyond the mouth of the tip or valve-casing 22, and in this construction the separate means for hinging the cap is done away with, and in the form shown the valve-cap 17 has a neck 40, adapted to rest in the slot 21 of the plug, which slot, however, in this construction preferably extends transversely of only one of the flanges 41, forming the groove 14 in the plug 13. The neck terminates in laterally-extending projections or pins 42, adapted to rest in the annular groove 14, whereby the cap is held in place relatively to said plug for oscillatory movement.

Having thus described my invention, I claim—

1. A smoking device embodying an apertured stem having a valve-casing; and a valve-cap supported in said casing and provided with lateral ears adapted to engage the wall thereof, substantially as and for the purpose specified.

2. A smoking device embodying a stem, and having a tip or valve-casing adjacent to its outer end; a plug having an apertured projection adapted to be secured in said stem adjacent to the free end thereof, said plug having a valve-seat, a valve-cap removably supported for swinging movement adjacent to the valve-seat, and a hook held in place by the casing for removably supporting the valve in position.

3. An attachment for a smoking device, consisting of a plug having an apertured stem adapted to be secured in the smoke-passage, and provided with a valve-seat; a valve-cap supported for swinging movement adjacent to the valve-seat; and a valve-casing for securing said valve-cap in position.

4. An attachment for a smoking device, consisting of a plug having an apertured stem adapted to be secured in the smoke-passage and having a valve-seat; a valve-cap removably supported for swinging movement adjacent to the valve-seat; means removably secured to the plug for supporting said cap; and a valve-casing surrounding said valve and securing said means in position, substantially as and for the purpose specified.

5. A smoking-pipe embodying a stem having a smoke-passage therein; a plug having an apertured stem adapted to be secured in said pipe-stem adjacent to the free end thereof,

tine is prevented, to a great extent, from clogging up such passage, and is also prevented from adhering to the walls of the passage-way and thereby creating obnoxious odors.

of and form a continuation of the smoke-passage, said plug also having a valve-seat and having a groove and a slot extending transversely of said groove; a valve-cap supported
5 for swinging movement adjacent to the valve-seat, whereby moisture from the mouth of the user will be prevented from entering the smoke-passage, said cap having ears, whereby the cap will be locked from swinging too
10 far from its seat; a hook supporting said cap

and having a bulging portion resting in the slot of the plug; and a tip or valve-casing surrounding said cap and having its inner end bent to engage the groove of the plug, substantially as described.

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