

No. 894,481.

PATENTED JULY 28, 1908.

DE WITT BRUCE.  
TOBACCO PIPE.

APPLICATION FILED MAR. 18, 1908.

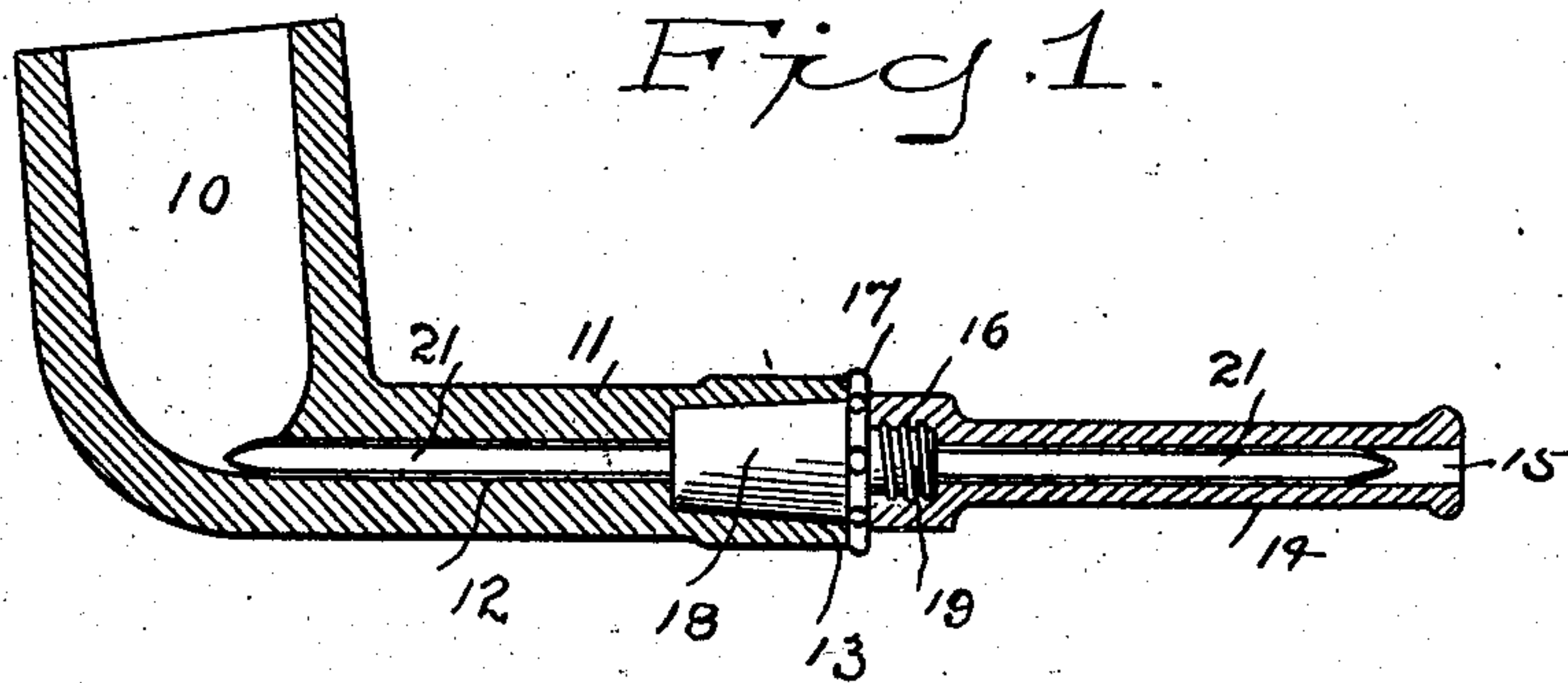


Fig. 3.

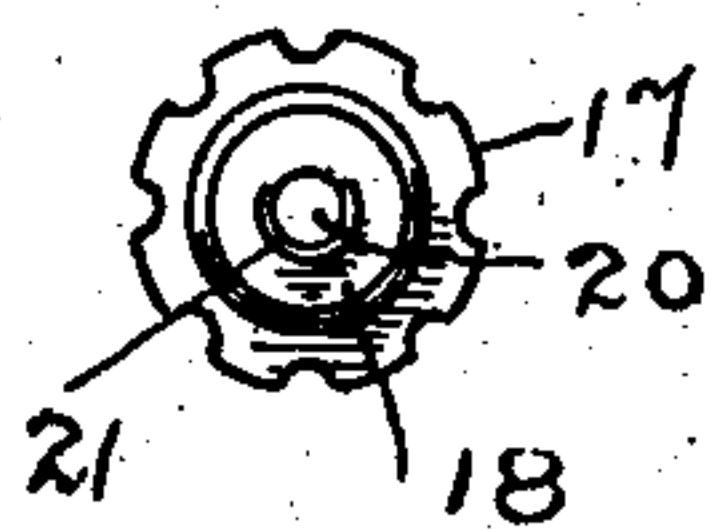


Fig. 2.

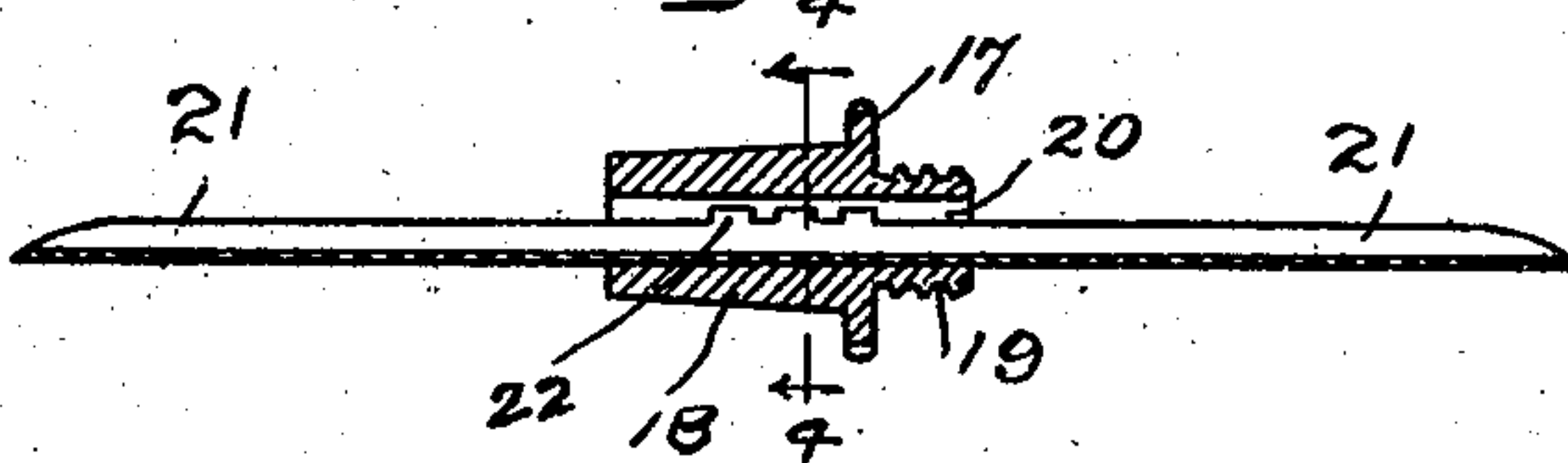


Fig. 4.

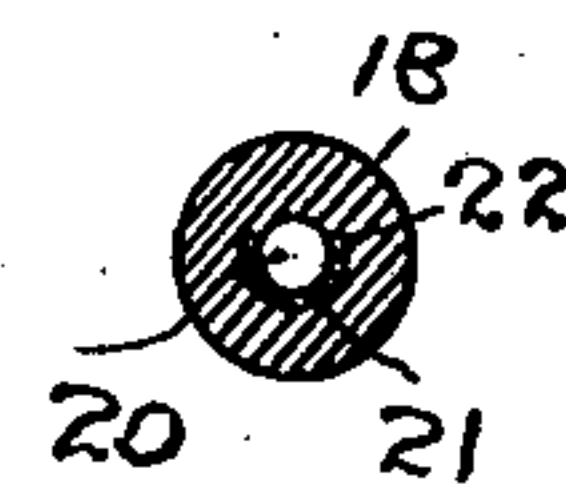


Fig. 6.

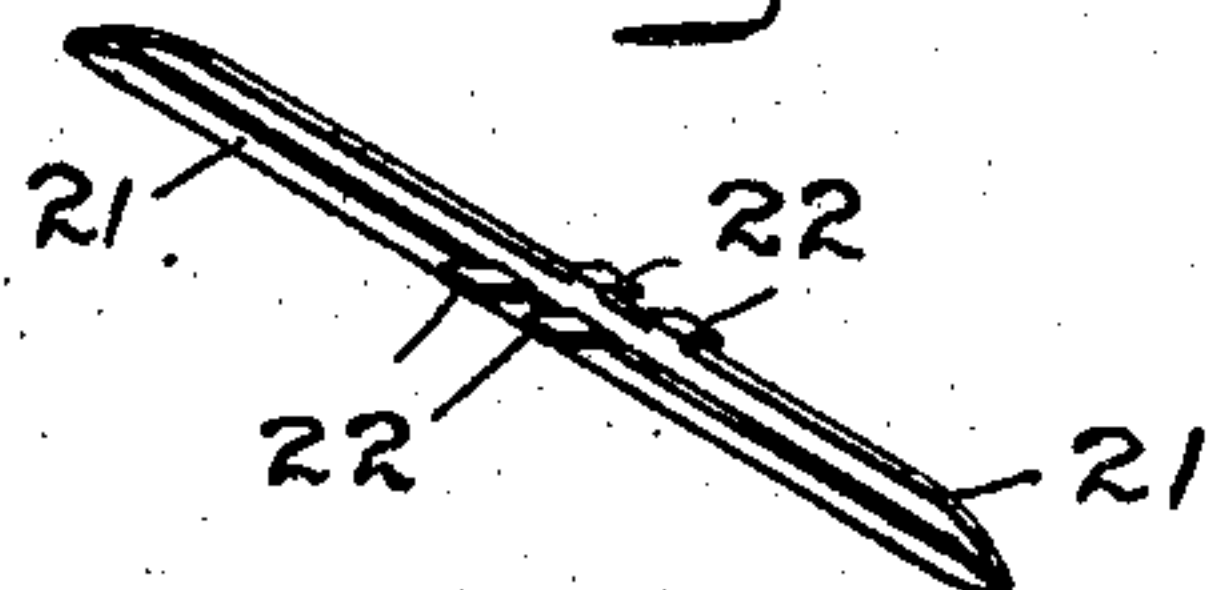


Fig. 5.

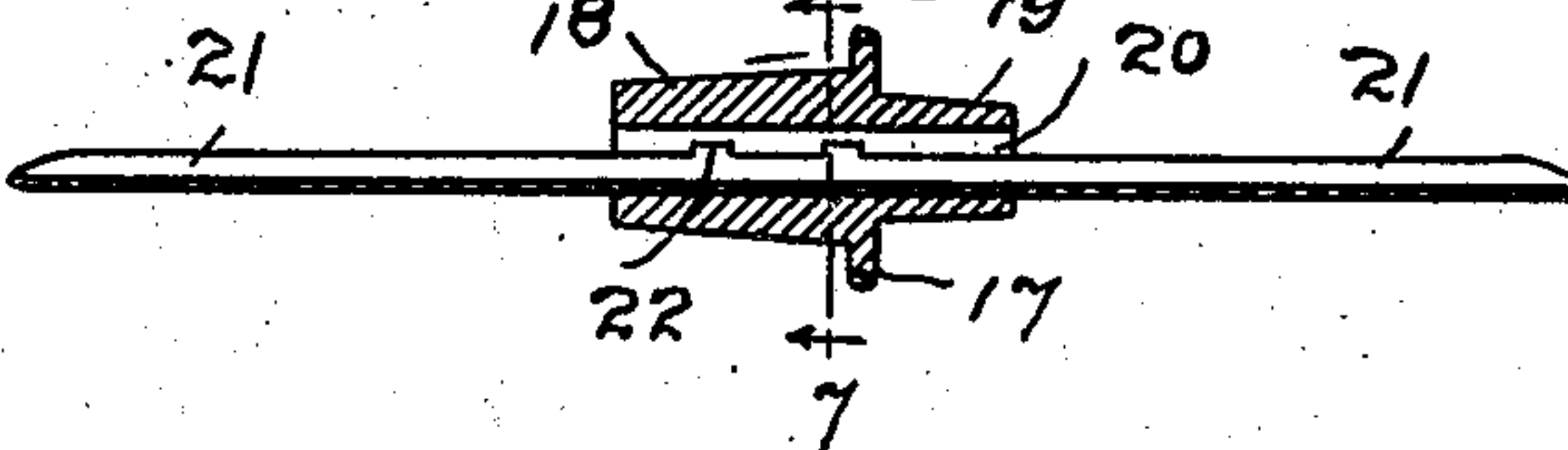


Fig. 7.

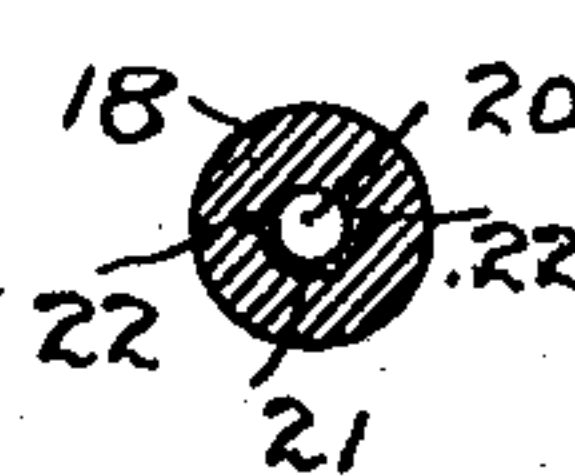


Fig. 8.

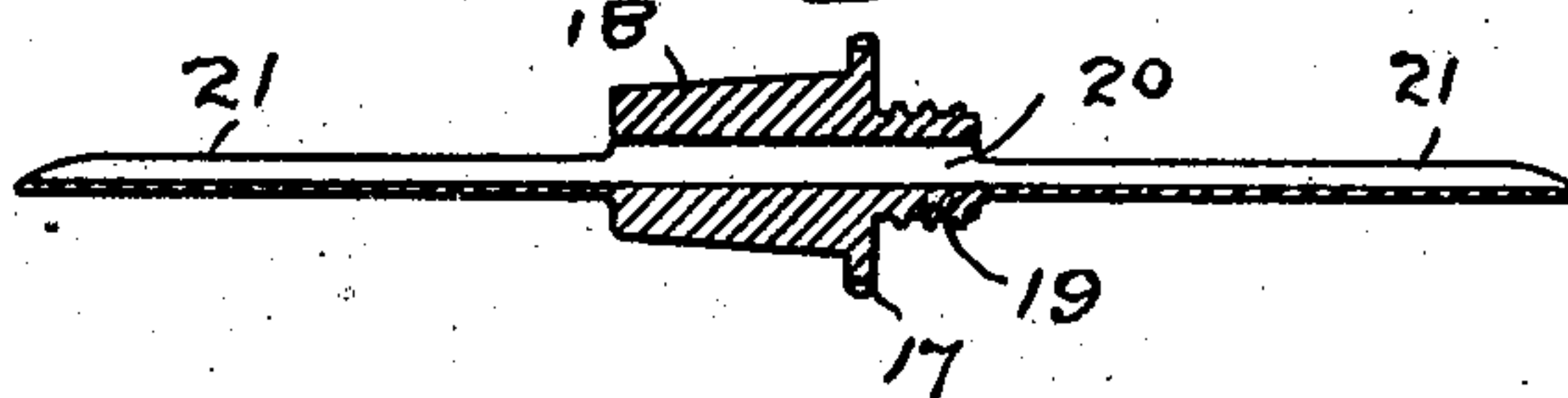
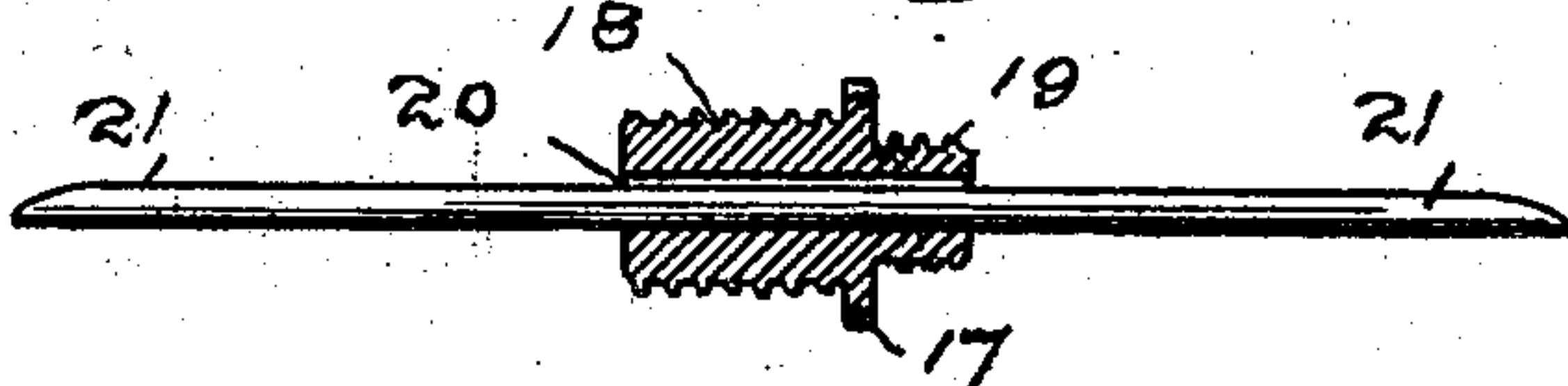


Fig. 9.



Witnesses:

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# UNITED STATES PATENT OFFICE

DE WITT BRUCE, OF PITTSFIELD, MASSACHUSETTS.

## TOBACCO-PIPE.

No. 894,481.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed March 18, 1908. Serial No. 421,776.

*To all whom it may concern:*

Be it known that I, DE WITT BRUCE, a citizen of the United States, residing at Pittsfield, county of Berkshire, State of Massachusetts, have invented a new and useful Tobacco-Pipe, of which the following is a specification.

This invention has for its object to provide a pipe for smokers' use, which shall consist of few parts, be inexpensive to make, strong and durable, easy to take apart and practically self-cleaning.

With these ends in view I have devised the simple and novel tobacco pipe which I will now describe, referring to the accompanying drawing forming a part of this specification and using reference characters to indicate the several parts:

Figure 1 is a longitudinal section of my novel pipe complete, the center-piece (shown in full lines) being provided with one threaded and one smooth tapering hub; Fig. 2 a longitudinal section of the center-piece and cleaners removed, illustrating a form of the invention in which the cleaners are formed from a strip of sheet metal and secured to the center-piece by casting or molding the latter about the strip; Fig. 3 an elevation as seen from the left in Fig. 2; Fig. 4 a section on the line 4—4 in Fig. 2 looking in the direction of the arrows; Fig. 5 a longitudinal section, showing a center-piece having two smooth tapering hubs to engage the other parts with slip joints; Fig. 6 a perspective illustrating one form of sheet metal cleaners detached; Fig. 7 a section on the line 7—7 in Fig. 5, looking in the direction of the arrows; Fig. 8 a longitudinal section showing the center-piece and cleaners as cast, molded or otherwise formed integral; and Fig. 9 is a longitudinal section showing a center-piece provided with threaded hubs at both ends, the strip comprising the cleaners being formed without lugs and being secured to the center-piece by a drive fit or being brazed or soldered thereto.

10 denotes the bowl and 11 the shank which may be of any ordinary or preferred configuration.

12 denotes the usual longitudinal opening in the shank which terminates in a recess 13 at the end of the shank.

14 denotes the stem having the usual longitudinal opening 15 terminating in a recess 16 at the inner end of the stem.

17 denotes the center-piece having hubs 18 and 19 which are adapted to engage the re-

cesses 13 and 16 in the ends of the shank and stem respectively. The center-piece has a longitudinal opening 20 extending through it in alinement with the openings in the shank and stem and semi-circular cleaners 21 extending from the hub and fitting closely within the longitudinal openings in the shank and stem. The center-piece and cleaners may be cast, molded or otherwise formed from metal, hard rubber, vulcanized fiber or any suitable material as clearly shown in Fig. 8, or if preferred the two cleaners may be formed from a strip of sheet metal and rigidly secured to the center-piece by casting, molding or otherwise forming the material of the center-piece about the strip.

When the center-piece is formed of metal and cast upon the strip comprising the cleaners, said strip may be provided on opposite sides with a plurality of lugs 22 formed from the metal thereof, which may be curved upward, as in Figs. 2 and 4, or may project outward horizontally from the upper edges of the strip, as in Figs. 5, 6 and 7. In Fig. 9 I have illustrated a form of sheet metal cleaners and cast or molded center-piece in which the lugs are omitted, and the cleaners are secured to the center-piece by a drive-fit or by brazing or soldering.

The hubs which engage the shank and stem may be made smooth and more or less tapering or may be threaded, as preferred. In Figs. 1, 2 and 8, hub 18 is made smooth and tapering to engage a corresponding recess in the shank and hub 19 is threaded to engage a threaded recess in the stem with a slip joint. In Fig. 5, both hubs are shown as made smooth and tapering to engage corresponding recesses in the shank and stem with slip joints, and in Fig. 9 both hubs are shown as threaded to engage threaded recesses in the shank and stem. The center-piece in all the forms is made of slightly greater diameter than the shank and the stem so that it may be conveniently grasped and held by the user in detaching the bowl and shank and the stem from the center-piece. The cleaners extend practically the entire length of the shank and the stem.

In use, the pipe is self-cleaning by removing the bowl and shank and the stem from the center-piece, by holding the center-piece and rotating the other part in removing it. The rotation of either shank or stem on the corresponding cleaner will cause the cleaner to remove from the longitudinal opening all



the tarry matter that has collected therein, thus leaving the part relatively clean. The center-piece and cleaners may be easily cleaned by means of hot water or alcohol.

5 I thus provide a simple, inexpensive and practically self-cleaning pipe as all the tarry matter that has collected in the shank and stem is removed therefrom in detaching said parts from the center-piece and cleaners.

10 In another application Serial No. 399,828, filed by me October 30, 1907, claims have been allowed, which claims include specific details of a form of tobacco pipe including a removable cleaner and a plug for locking the  
15 cleaner in the center piece. I therefore do not wish to be understood as presenting in this application claims of the same scope as in said other application.

Having thus described my invention I  
20 claim:

1. A pipe comprising a shank and a stem having longitudinal openings in alinement and a center-piece adapted to be grasped, for the purpose set forth, said center-piece  
25 having an opening in longitudinal alinement with the openings in the shank and stem and semi-circular cleaners extending therefrom and lying within the openings in the shank and stem, whereby said parts are cleaned by  
30 rotation in detaching them from the center-piece.

2. A pipe comprising a shank, a stem and a center-piece having longitudinal openings in alinement and semi-circular cleaners  
35 formed from a strip of sheet metal which is rigidly secured in the center-piece, said

cleaners extending in opposite directions and lying within the openings in the shank and stem which are detachably secured to the center-piece.

3. A pipe comprising a shank, a stem and a center-piece having longitudinal openings in alinement, and cylindrical cleaners formed from a strip of sheet metal provided with lugs, said center-piece being cast or molded upon  
45 said strip and said cleaners engaging the openings in the shank and stem, substantially as described, for the purpose specified.

4. A pipe comprising a shank, a stem and a center-piece adapted to be grasped, for the  
50 purpose set forth, said parts having longitudinal openings in alinement and said center-piece having semi-circular cleaners extending therefrom and adapted to lie in the openings in the shank and stem.

5. A pipe comprising a shank, a stem and a center-piece having hubs for the attachment of the shank and the stem, said parts having longitudinal openings in alinement and semi-circular cleaners extending from  
60 the hubs of the center-piece and adapted to lie in the openings in the shank and stem.

6. The center-piece 17 having attaching hubs and semi-circular cleaners extending from the hubs, substantially as described,  
65 for the purpose specified.

In testimony whereof I affix my signature, in presence of two witnesses.

DE WITT BRUCE.

Witnesses:

B. F. PARKIE,

EDITH DIEHL ROBERTSON.