

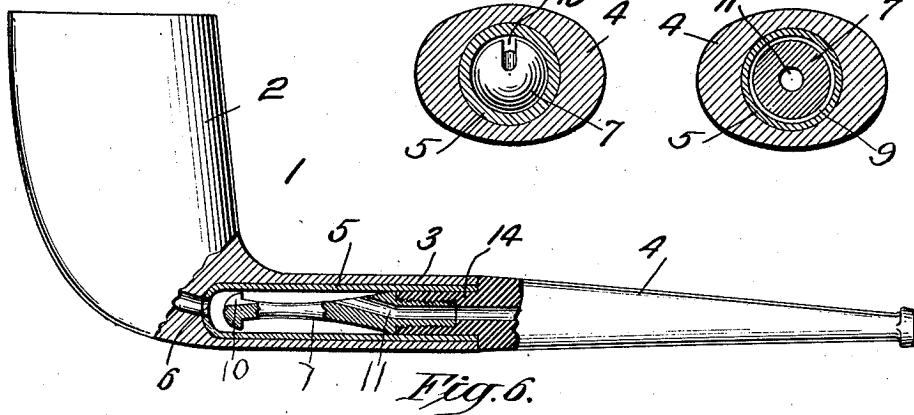
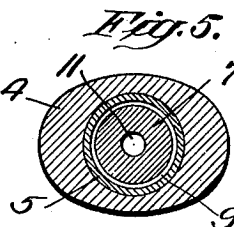
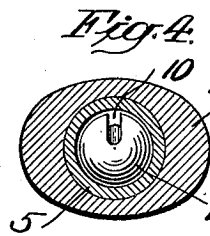
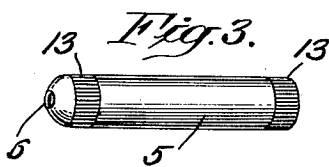
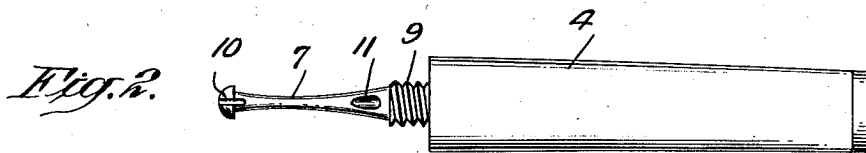
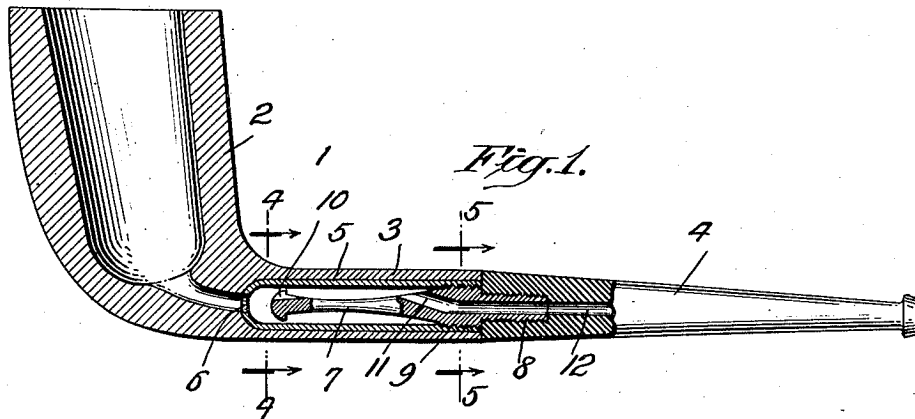
June 1, 1926.

1,587,048

L. STERN

SELF CLEANING PIPE

Filed July 14, 1924



Ludwig Stern INVENTOR  
BY O. E. Swack ATTORNEY

# UNITED STATES PATENT OFFICE.

LUDWIG STERN, OF NEW YORK, N. Y.

## SELF-CLEANING PIPE.

Application filed July 14, 1924. Serial No. 725,794.

The object of my invention is to provide a pipe which may be easily cleaned from time to time, as desired, and which will prevent juice or saliva from entering the mouth of the smoker when the pipe is in use. This and other objects are accomplished by my invention, one embodiment of which is hereinafter more particularly set forth.

For a more detailed description of my invention, reference is to be had to the accompanying drawings, forming a part hereof, in which—

Figure 1 is a side elevation, partially in section, of a pipe with amber or bakelite mouthpiece embodying my invention.

Figure 2 shows a mouthpiece of the same.

Figure 3 a socket into which a projection from the mouthpiece extends.

Figures 4 and 5 are sectional views, taken on the lines 4—4 and 5—5 of Figure 1, looking in the direction of the arrows.

Figure 6 is a side elevation, partially in section, of an ordinary pipe embodying my invention.

Throughout the various views of the drawings, similar reference characters designate similar parts.

My improved pipe 1 has a bowl 2, a stem 3 and a mouthpiece 4. The bowl needs no description because it is a conventional bowl, such as is commonly used in smokers' pipes. The stem does differ from ordinary pipes in this respect. A boss 5 is set in the stem, this boss being made of any suitable material, as aluminum, and it has a cylindrical bore on its interior and an end perforated at 6 so as to register with the vent of the pipe. This socket or boss 5 is made large enough to receive a projection 7 which extends from the mouthpiece 4. If the mouthpiece be made of amber or similar material, as shown in Figure 1, this projection 7, which is preferably made of aluminum, is reduced at its end and screw threaded at 8 so as to fit into the mouthpiece and be held therein, as is obvious, and it is also screw threaded at 9 to engage similar threads in the socket 5 by which it is held firmly in place. The projection 7 has a head which nearly fills the interior of the socket 5, but has a recess 10 in this head and in the upper portion thereof so that smoke may be drawn through this opening in the conventional manner and also through a passage 11 at

the rear of this projection which passage registers with a corresponding passage 12 in the mouthpiece 4. It will be noted that back of the head there is a reduced neck or stem in the projection 7 around which saliva or other fluids are trapped as the passage 11 emerges near the top of the bore in the socket 5.

When the pipe is to be cleaned the mouthpiece is unscrewed in the conventional manner and then the projection 7 pulled longitudinally through the bore of the non-absorbent socket 5 so that all impurities are scraped out and thereafter the stem 7 may be wiped clean and reinserted. In this very simple manner the pipe may be kept clean with very little effort and it is practically self-cleaning whenever the mouthpiece is detached, as described above. In the preferred embodiment of my invention, the socket 5 preferably has roughened or knurled cylindrical surfaces 13 so as to prevent the same from turning in the stem 3.

The structure shown in Figure 6 is the same as that shown in Figure 1 except that the threads 9 are not used and the mouthpiece 4 has a reduced end 14 which slides directly into the socket 5 and slides out without the assistance of screw threads. This structure may be used where ordinary mouthpieces are employed.

While I have shown and described two embodiments of my invention, it is obvious that it is not restricted thereto, but that it is broad enough to cover all structures that come within the scope of the annexed claim.

Having thus described my invention, what I claim is:

In a pipe of the class described, a bowl, a stem and a mouthpiece, the stem having a socket secured therein with a roughened exterior surface, with a passage connecting the bore of the stem to the bowl of the pipe and the mouthpiece having a projection with a head adapted to scrape the socket and keep the same clean, the head having a bore through which vapor can pass from the pipe to the mouth of the smoker and means for holding the mouthpiece and bowl in proper relation.

In testimony whereof, I have hereunto set my hand this 11th day of July, 1924.

LUDWIG STERN.