

M. A. HADCOCK.
 PIPE AND CLEANER THEREFOR.
 APPLICATION FILED APR. 27, 1908.

939,247.

Patented Nov. 9, 1909.

Fig. 1.

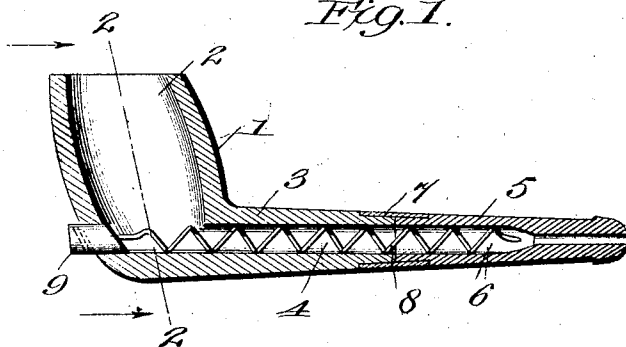


Fig. 2.

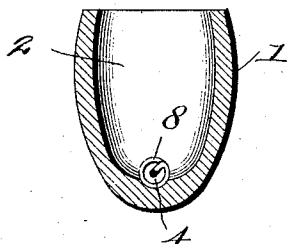


Fig. 4.

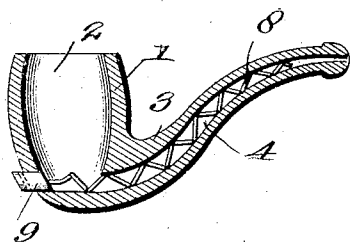


Fig. 5.

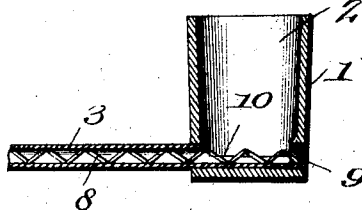
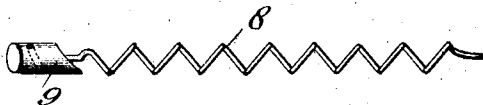


Fig. 3.



Witnesses
 Geo. H. Beyer.
 Wm. Map. Durall.

Inventor
 Melburn Alvin Hadcock
 by
 Jerry A. Mattews
 Attorney

UNITED STATES PATENT OFFICE.

MELBURN ALMONT HADCOCK, OF STEVENS POINT, WISCONSIN.

PIPE AND CLEANER THEREFOR.

939,247.

Specification of Letters Patent.

Patented Nov. 9, 1909.

Application filed April 27, 1908. Serial No. 429,371.

To all whom it may concern:

Be it known that I, MELBURN ALMONT HADCOCK, a citizen of the United States, residing at Stevens Point, in the county of Portage and State of Wisconsin, have invented certain new and useful Improvements in Pipes and Cleaners Therefor, of which the following is a specification.

This invention relates to pipe cleaners, and has for its object to provide a cleaner which will at all times be in operative position to perform its cleaning function.

It is a well known fact that with most devices of this kind now in use the cleaner is inserted in the stem and moves longitudinally to effect the cleaning of the latter; the chief disadvantage of this construction is that the deposit removed from the walls of the stem is by the cleaner generally deposited in the bottom of the bowl and there is no provision made to clean the latter. The present invention aims to remedy this defect by providing a construction which will simultaneously remove the deposit both from the stem and bowl.

With these and other objects in view, as will more fully hereinafter appear, the present invention consists in certain novel details of construction, and arrangement of parts, hereinafter fully described and illustrated in the accompanying drawings, and particularly pointed out in the appended claim. It being understood that various changes in the form, proportion, size and minor details of the device may be made without departing from or sacrificing any of the advantages of the invention.

In the accompanying drawings:—Figure 1 is a longitudinal sectional view taken through a pipe showing the cleaner in place. Fig. 2 is a vertical section taken through the bowl on the line 2—2 of Fig. 1. Fig. 3 is a detached perspective view of the cleaner. Fig. 4 is a sectional view through a curved stem pipe. Fig. 5 shows the device applied to a corn cob pipe.

Similar numerals of reference are employed to illustrate the corresponding parts throughout.

In the construction illustrated in Figs. 1 to 5 inclusive, a pipe of ordinary construction is shown having the usual bowl 1, provided with a longitudinal bore 2 and stem 3,

the latter being provided with a central bore 4, terminating in the bore 2 of the bowl. A bit 5 having a central bore 6 is coupled to the stem 3 by a ferrule 7, as illustrated in Fig. 1. The bowl 1 is at a point approximately diametrically opposite to the bore 4 provided with the opening alining with the bore 4, and the function of which will presently appear. A cleaner in the present instance is shown as constructed of a single piece of wire or other suitable material having convolutions 8, the diameter of said convoluted portion being sufficient to slidingly fit within the bore 4 of the stem 3. A plug 9, preferably formed of metal or other suitable material, is designed to snugly fit within the opening formed in the bowl 1, and opposite to that of the bore 4, and is preferably frusto-conical in shape, its inner end forming a continuation of the wall of the bore 2 and its outer end projecting slightly in advance of the outer face of the bowl 1. The plug 9 is provided with an opening for the reception of one end of the cleaner 8, which is suitably secured therein.

From the foregoing it is obvious that a pipe, such as shown in Figs. 1, 2 and 3, and provided with the opening as heretofore described, may be readily cleaned by turning the plug 9, which will result in the extraction of the cleaner 8.

In the construction illustrated in Fig. 5, the device is shown applied to what is known as a corn cob pipe, in which the stem 3 is adjacent its inner or bowl engaging end provided with a cut away portion 10, which is designed to lie directly in the center of the bore 2 of the bowl 1. The bowl is similarly provided with an opening adjacent its base and alining with the opening in the opposite side for the reception of the stem 3.

The form of cleaner used is similar to that already described and operated in a like manner.

From the foregoing it is obvious that a pipe fitted with my improved cleaners may be readily and effectively cleaned and kept in a sanitary condition.

What I claim is:—

The combination with a pipe having an opening in the bowl thereof alining with the bore of the stem, of a cleaner for said

pipe comprising a spiral wire having its
convolutions adapted to lie in intimate con-
tact with and throughout the bore of the
stem and with the base of the bowl, and a
5 plug fitting within said opening in the bowl
and having its inner surface adapted to con-
form with the inner contour of said bowl,
said plug being attached to the spiral cleaner

and constituting the manipulating member
therefor.

In testimony whereof I affix my signa-
ture, in presence of two witnesses.

MELBURN ALMONT HADCOCK.

Witnesses:

H. H. BYRNE,
O. BISHOP.