

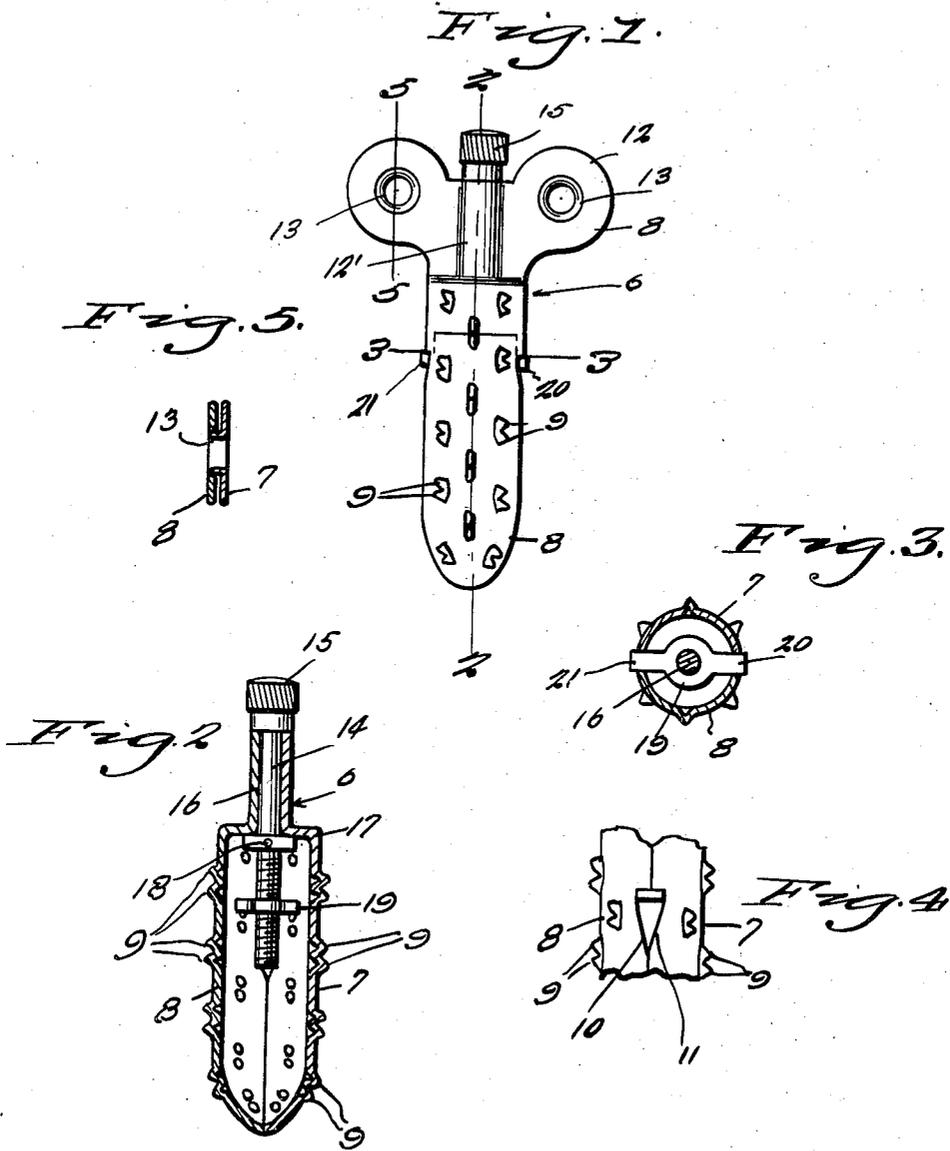
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PIPE CLEANER

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# UNITED STATES PATENT OFFICE

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## PIPE CLEANER

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1 Claim. (Cl. 131-246)

The present invention relates to new and useful improvements in cleaners particularly for smoking pipes and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character embodying a novel construction, combination and arrangement of parts through the medium of which a pipe bowl may be easily and expediently cleaned.

Other objects of the invention are to provide a pipe cleaner of the aforementioned character which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight, and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters designate corresponding parts throughout the several views, and wherein:

Figure 1 is an elevational view of my invention.

Figure 2 is a vertical sectional view of the invention, taken substantially on the line 2-2 of Fig. 1.

Figure 3 is a transverse sectional view of the invention, taken substantially on the line 3-3 of Fig. 1.

Figure 4 is a fragmentary elevational view of the invention.

Figure 5 is a vertical sectional view of the invention, taken substantially on the line 5-5 of Fig. 1.

Referring now to the drawing in detail, it will be seen that the reference numeral 6 designates generally the body of the cleaner. The body 6 includes complementary members 7 and 8 each of which may be stamped or otherwise formed from metal or other suitable material. The lower end portions of the members 7 and 8 are substantially semi-cylindrical in cross section to form heads and are stamped or pressed to provide projections 9 on their outer surfaces. The lower semi-cylindrical head portions of the members 7 and 8 are provided on their inner side edge portions with tapered notches 10 and 11, while the upper end portions of the members 7 and 8 are substantially plate like or flat and are formed into a winged handle 12 which secures the sections 7 and 8 together by riveting or otherwise as shown at 13 in Figure 5 of the drawing. Each of the sections 7 and 8 in that portion constituting the handle 12, has formed therein a channel 12' for the reception of a screw threaded actuating member 14.

The screw threaded member 14 is of uniform diameter throughout and has its upper end portion fashioned into a knurled head 15 which may be grasped for turning the same. The lower end portion of the member 14 is threaded while the portion intermediate the threaded lower end portion and head 15 is smooth and is journaled in the bearing 16 formed by the channels 12'. A collar 17 is mounted on the screw threaded member 14 intermediate the ends thereof and is secured thereto by a pin 18 passing through the collar 17 and member 14.

A nut 19 provided with diametrically disposed projections 20 and 21 is adapted to be threaded onto the screw threaded member 14.

The operation of the device is thought to be manifest but may be briefly described as follows:

The lower end portion of the device which is composed of the semi-cylindrical members 7 and 8 is inserted into a pipe bowl. The screw threaded member 14 is then turned by grasping the knurled head 15 and rotating same to cause the nut 19 to be moved in a downward direction on the screw threaded member 14. On its downward travel the nut is prevented from rotating by the projections 20 and 21 which are projecting through the openings formed by the tapered notches 10 and 11. The projections 20 and 21 of the nut 19 while riding down the tapered notches 10 and 11 cause the semi-cylindrical sections to be forced apart and adjusted to contact the interior wall of any size pipe bowl. The device is then rotated by means of the handle 12 to effectively and easily clean substantially all or a portion of the cake in the pipe bowl.

Although I have shown and described herein a preferred embodiment of my invention, it is to be definitely understood that I do not desire to limit the application of the invention thereto, and any change or changes may be made in the materials and in the structure and arrangement of the parts, within the spirit of the invention as claimed.

What is claimed is:

A pipe bowl cleaner comprising a pair of complementary members each formed of a single piece of material and each including an elongated part of semi-cylindrical shape in cross section and a substantially flat part having wing forming portions, rivets connecting the wing forming portions of the two members together, the rest of the two members being disconnected from each other, the central portions of the flattened part being bent outwardly into semi-circular shape in cross section, the two semi-

5 circular portions forming a bearing, a shaft journaled in the bearing and having a handle at its outer end, a nut member threaded on the inner portion of the shaft, said inner portion of the shaft being threaded and the edge parts of the semi-cylindrical portions of the two members having tapered notches therein and projections on the nut extending into said notches for forcing the two members apart when the nut member is moved in a certain direction by turning movement of the shaft.

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