

No. 692,800.

Patented Feb. 4, 1902.

A. S. SPEIRS.  
TOBACCO PIPE CLEANER.

(Application filed June 19, 1901.)

(No Model.)

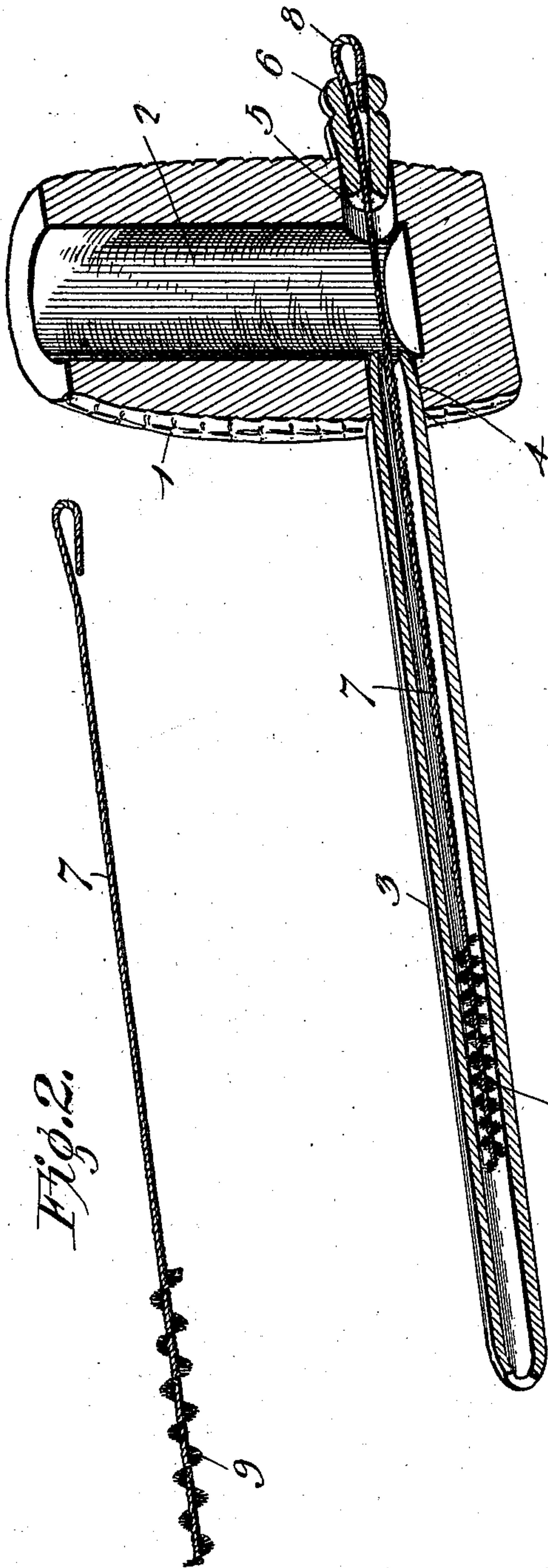


Fig. 1.

Fig. 2.

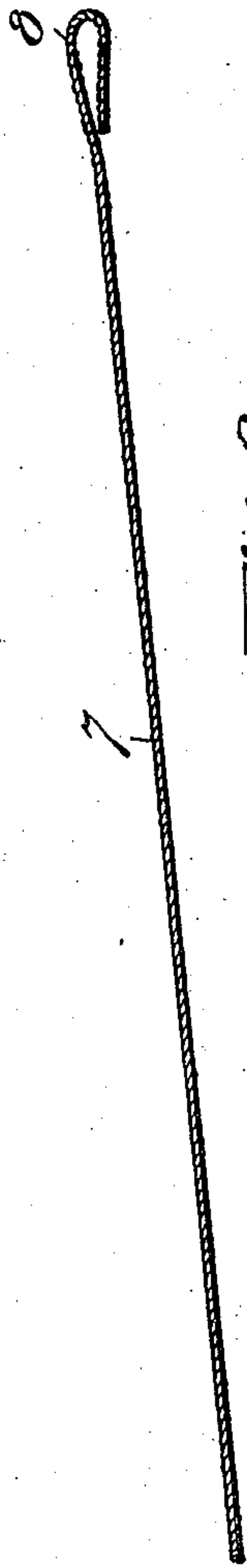
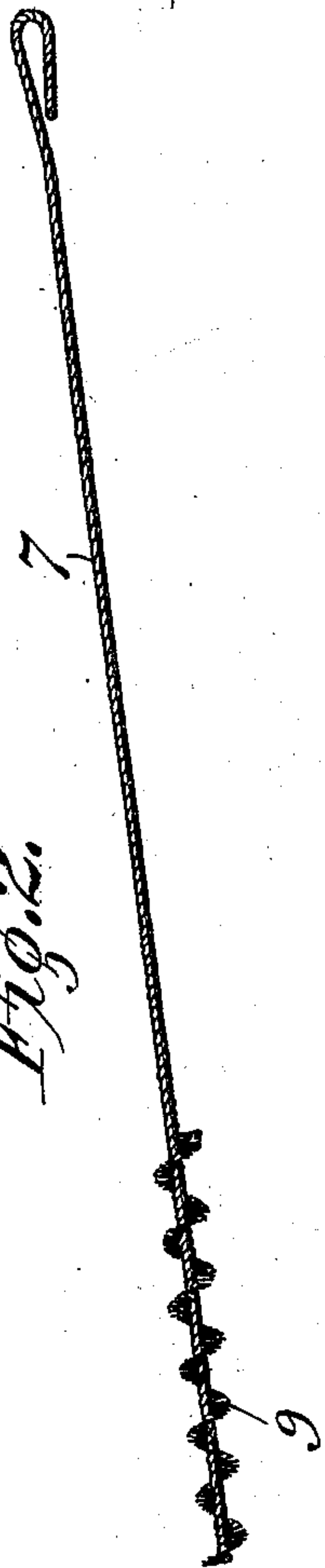


Fig. 3.

Witnesses

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# UNITED STATES PATENT OFFICE.

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## TOBACCO-PIPE CLEANER.

SPECIFICATION forming part of Letters Patent No. 692,800, dated February 4, 1902.

Application filed June 19, 1901. Serial No. 65,195. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT STUART SPEIRS, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a new and useful Tobacco-Pipe Cleaner, of which the following is a specification.

This invention relates to tobacco-pipes; and the purpose of the same is to provide a convenient cleaner in connection with pipes, comprising a bowl having a separable stem, the bowl having means for holding the cleaner in connection therewith while the stem is removed and reversed for entrance thereinto of said cleaner, the latter also being removable from the bowl, whereby the stem may be cleansed previous to or after filling the bowl with a charge of tobacco, a portion of the stem being continuously occupied by a part of the cleaner to establish a smoke straining or purifying means and prevent passage of impurities from the stem into the mouth of the smoker.

The invention primarily consists of a separable bowl and stem, the bowl having diametrically-opposed openings in the lower portion thereof of similar size, the one to receive the stem-terminal and the other a device for holding the cleaner, the stem-terminal and said device being interchangeable in relation to said openings, so that in the event of wear or enlargement of the opening engaged by the stem-terminal the latter can be inserted in the opposite opening and the device for holding the cleaner arranged to fit the opening vacated by the stem, thus prolonging the life of the pipe.

The invention further consists of a separable bowl and stem and a cleaner removably mounted in the bowl and adapted to be held by the latter for insertion in the stem, said cleaner extending through the lower portion of the chamber of the bowl and exteriorly accessible for application and removal.

The invention further consists in the details of construction and arrangement of the several parts which will be more fully hereinafter described and claimed and subject to a wide range in modification in the form, size, proportions, and minor details without departing from the principle of the invention.

In the drawings, Figure 1 is a sectional perspective view of a separable pipe bowl and stem, showing the improved cleaner in connection therewith. Fig. 2 is a detail perspective view of the cleaner. Fig. 3 is a view of the cleaner similar to Fig. 2, showing a slight modification.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a pipe-bowl having the usual chamber 2 therein, and to the said bowl a stem 3 is removably attached. The pipe shown is of the corncob type; but it will be understood that any pipe-bowl with a removable stem can have the cleaner applied thereto, and in some instances the stem may be permanently connected to the bowl and still have the cleaner practically cooperate therewith in view of the removability of said cleaner, though it is preferred that the pipe and stem be related as set forth. In the lower portion of the bowl diametrically-aligned openings 4 and 5 are formed, the one opening to removably receive the terminal of the stem 3 and the other a tubular plug 6, to which the cleaner is connected. The plug 6 is removable, and it and the stem may be interchanged in relation to the openings, so that in the event of the opening that has been occupied by the stem-terminal becoming worn or enlarged said stem may be terminally inserted in that formerly occupied by the plug and the latter arranged by wrapping or otherwise to snugly fit in the opening vacated by the stem-terminal. This capability of interchanging the stem-terminal and plug in relation to the openings will prolong the life of the pipe without in the least detracting from its usefulness. From a structural standpoint the arrangement of the two openings as set forth is of material advantage, as they can both be formed by a single boring operation.

The cleaner comprises a filament 7, of wire or other suitable material, which will preferably have an inherent resilience to give it sufficient body to perform the operation for which it is designed, the said filament being long enough to extend diametrically through the lower portion of the pipe-bowl and a greater portion of the length of the stem.



The one extremity of the filament 7 is inserted through the plug 6 and rebent to form a loop 8, which has its terminal reinserted in the outer end of the plug to thereby form a simple securement for the said filament. The loop 8 can be readily bent in such direction to permit detachment of the filament extremity from the plug, if desired, and said filament can be inserted or withdrawn with the plug. In the form of the filament shown by Figs. 1 and 2 the free extremity thereof that normally remains in the stem is provided with a cleaning projection 9, of wool, bristles, wood fiber, or the like, the said cleaning projection facilitating the removal of the residuum from the stem and also serving as a strainer through which the smoke is drawn to prevent impurities or particles from the stem passing into the mouth of the smoker. As shown by Fig. 3, the filament may be practically used without the projection; but it will be obvious that said projection will be used with greater advantage.

In the operation of the cleaner the stem is detached from the bowl, and by such detachment it will be readily appreciated that the stem will be partially cleaned by the filament. The cleaner remains in connection with the bowl, which serves as a handle therefor, and the stem can be reversed and the free extremity of the filament inserted in opposite ends thereof and withdrawn to thereby thoroughly clean the same. This cleaning operation may be pursued either before or after the bowl is filled with a charge of tobacco, and when the bowl is filled said operation may be carried on without disturbing the contents of the latter. It is also obvious that at times the filament may be drawn through the base of the bowl for cleaning purposes, and this capability is of most important advantage, as it saves digging at the bottom of the bowl to remove the sediment or residuum therefrom.

From the foregoing disclosure it will be seen that a cleaner is always at hand in connection with the pipe for use at any time found necessary and without causing a smoker inconvenience in procuring some article extraneous to the pipe to clean the latter, and, moreover, the permanent application of the cleaner does not in the least interfere with the practical use of the pipe or materially increase the cost of manufacture thereof. It will also be seen that the inner end of the plug 6 is constructed to permit easy threading of the filament therethrough, and the inner terminal of the bore thereof is contracted to fit snugly around the said filament to prevent the influx of air at this point during the use of the pipe, and thereby avoid interference with the draft of the latter.

Having thus described the invention, what is claimed as new is—

1. A pipe having a cylindrical bowl provided in its wall with opposite openings above the plane of the bottom of the tobacco receptacle or cavity, a stem and a plug interchangeably fitted in said openings, and a cleaning filament attached to the plug, spanning the tobacco receptacle or cavity of the bowl above the bottom thereof and extending into the bore of the stem.

2. A pipe having a cylindrical bowl provided in its wall with opposite axially-alined openings of approximately equal diameters, arranged above the plane of the bottom of the tobacco receptacle or cavity, a stem and a plug interchangeably fitted in said openings, and a cleaning filament attached to the plug, spanning the tobacco receptacle or cavity above its bottom and extending into the bore of the stem.

3. A pipe having a bowl provided in its wall with opposite openings arranged above the plane of the bottom of the tobacco receptacle or cavity, a stem and a plug interchangeably fitted in said openings, the plug being provided with a bore or perforation in alinement with that of the stem, and a cleaning filament extending through the bore of the plug, spanning the tobacco receptacle or cavity and extending into the bore of the stem, and provided at the end adjacent to the plug with an enlargement for preventing longitudinal withdrawal thereof from the bore of the plug, and for permitting withdrawal of the filament by the removal of the plug from the opening in which it is fitted.

4. A pipe comprising a bowl and a stem completely separable therefrom, and a cleaner remaining continuously in the pipe and stem so that the bowl may be used as a handle for cleaning the stem when the latter is separated therefrom, the cleaner being removable from the bowl and stem at will and comprising a tubular plug and a filament, the latter having one extremity passed through the plug and doubled and secured in the outer end of said plug so as to be exteriorly accessible in forming a securement for the end of the filament that will resist disconnection of the filament from the plug when the latter has a drawing force applied thereto, the remaining portion of the filament normally projecting into the stem.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALBERT STUART SPEIRS.

Witnesses:

HARRY GATA,  
C. J. DOODY.