

(No Model.)

J. HANNAN.
TOBACCO PIPE.

No. 598,086.

Patented Feb. 1, 1898.

Fig. 1.

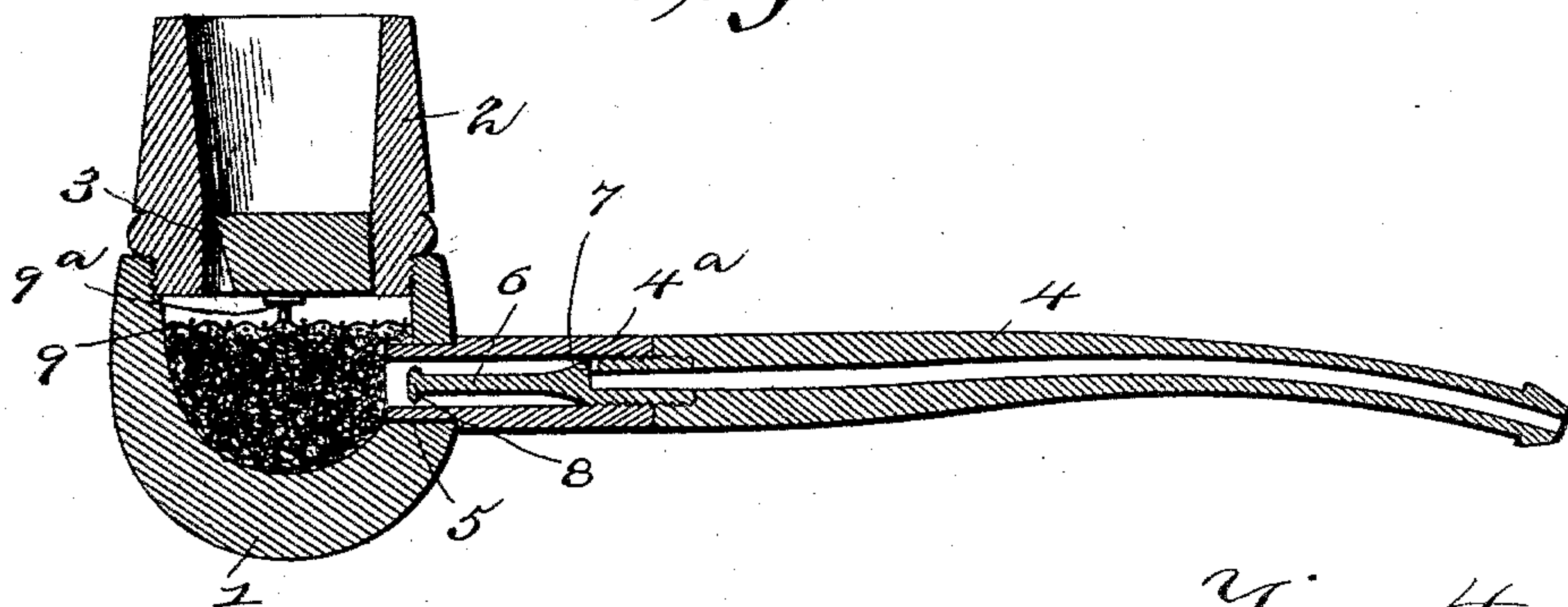


Fig. 4.

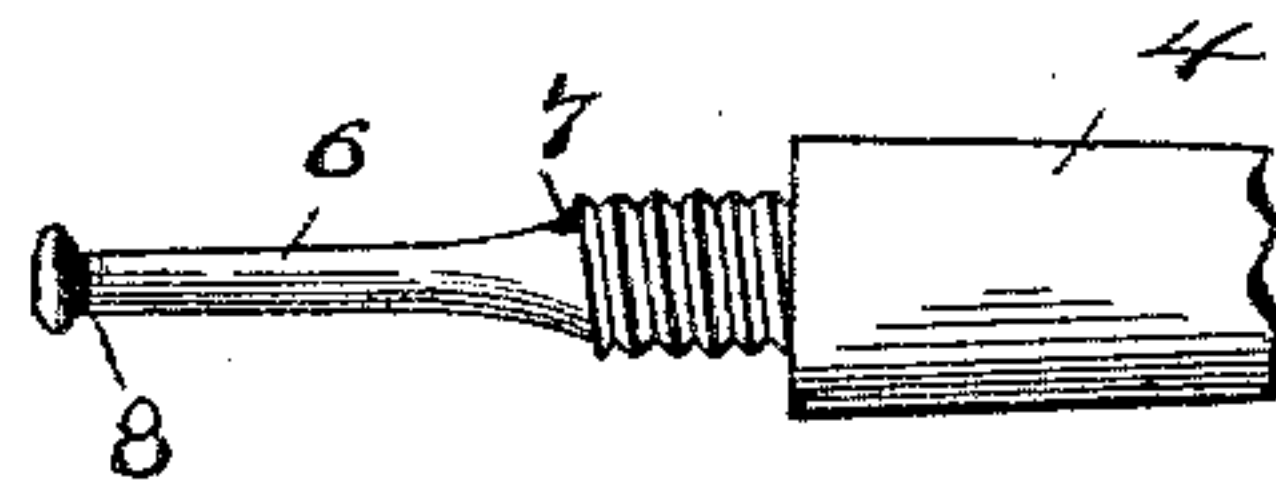


Fig. 2.

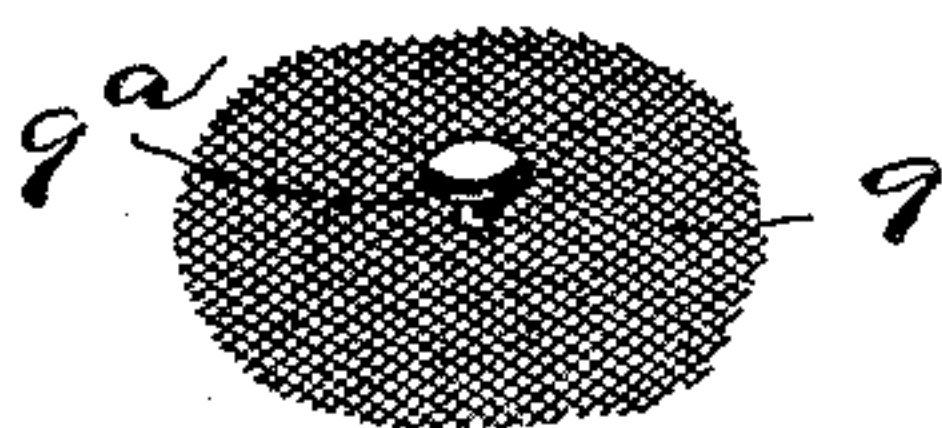
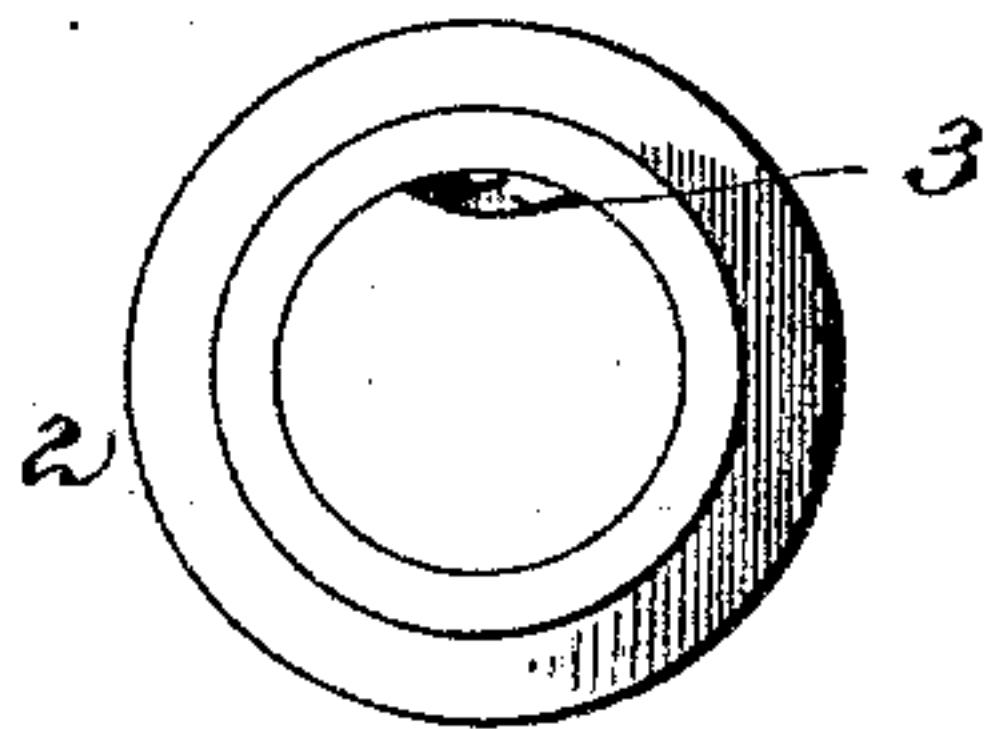


Fig. 3.



Inventor

James Hannan.

Witnesses
L. Wieser.

By his Attorneys,

[Signature]

Chas. Snow & Co.

UNITED STATES PATENT OFFICE.

JAMES HANNAN, OF MUSCATINE, IOWA.

TOBACCO-PIPE.

SPECIFICATION forming part of Letters Patent No. 598,086, dated February 1, 1898.

Application filed February 17, 1897. Serial No. 623,888. (No model.)

To all whom it may concern:

Be it known that I, JAMES HANNAN, a citizen of the United States, residing at Muscatine, in the county of Muscatine and State of Iowa, have invented a new and useful Tobacco-Pipe, of which the following is a specification.

My invention relates to tobacco-pipes, and has for its object to provide a device of this class which shall be adapted to remove a portion of the deleterious property known as "nicotine" from the smoke and which shall also make it possible to medicate or perfume the smoke in order that the latter may produce a soothing or healing instead of an irritating effect upon the glands and membranes of the mouth and throat of the smoker or otherwise add to the pleasure or satisfaction of the pastime, and, furthermore, to provide such a construction and arrangement of parts as to facilitate the cleaning of the interior of the pipe.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings, Figure 1 is a sectional view of a pipe constructed in accordance with my invention. Fig. 2 is a detail view in perspective of the removable screen detached. Fig. 3 is a bottom plan view of the upper or removable bowl-section. Fig. 4 is a detail side view of the stem-cleaning needle.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The bowl is of sectional construction, consisting of the lower or main section or member 1, into which is removably fitted the upper member or section 2, which is preferably provided with a closed bottom, with the exception of a small perforation 3, (see Fig. 3,) through which smoke from the contents of the upper bowl-section is allowed to pass when induced by the draft produced in the pipe-stem 4.

The stem may be of any suitable or preferred construction, removably fitted in an opening 5 in the side wall of the lower bowl-section; but in practice I prefer to use a sectional stem of which the removable member 4^a is provided with a larger bore than the

main stem-section to receive a cleaning-needle 6, which is carried by and preferably formed integral or at least rigid with the main stem-section.

The connection between the main and removable stem-sections is preferably secured by means of a threaded portion of the needle contiguous to its point of junction with the main stem-section, and below this threaded portion the needle is reduced in diameter and is provided with a lateral perforation 7, communicating with the bore of the main stem-section. The needle is preferably headed terminally, as shown at 8, to facilitate the removal of accumulations in the bore of the removable stem-section, the diameter of the head being approximately equal in diameter with that of said bore, whereby the smoke in order to enter the space formed by the reduction of the diameter of the needle is forced to pass through a narrow annular passage, which prevents unburned particles or sparks and other obstructions from approaching the lateral perforation of the needle.

The interior of the main or lower bowl-section is preferably filled with an absorbent material—such as raw cotton, wool, or other fibrous substitute—and resting upon the upper surface of this absorbent material and equal in diameter with the interior of the lower bowl-section is a reticulated or foraminous disk 9, designed to operate as a screen and as a distributor, whereby smoke descending through the perforation in the bottom of the upper bowl-section is spread to pass through the absorbent material and thus come in contact uniformly with the latter. The perforation in the bottom of the upper bowl-section is preferably arranged at the front of the bowl or at a point diametrically opposite to the point of communication of the stem with the lower bowl-section, and I have found in practice that the use of the foraminous disk or screen serves to spread the smoke as it enters the lower bowl-section, whereby the entire mass of absorbent material is exposed to the contact of the smoke.

In order that the disk may be held in place and serve the additional function of holding the absorbent material in place and at the same time maintain a sufficient interval between the closed bottom of the upper bowl-

section and the plane of the disk, I provide the latter at its center with an upright flat-headed projection or spacing-pin 9^a. The bottom of the upper bowl-section bears upon this spacing-pin, and hence maintains a uniform interval between the bottom of the upper bowl-section and the plane of the disk, whereby the quantity of absorbent material may be varied to increase or diminish its density, and hence the straining effect produced thereby, without interfering materially with the draft of the pipe and without allowing the perforation in the bottom of the upper bowl-section to become choked. The pressure of the bottom of the upper bowl-section upon this spacing-pin compresses the absorbent material, whereby any desired density thereof may be attained, depending upon the quantity of such absorbent material which is arranged in the lower bowl-section.

As hereinbefore indicated, the absorbent material may be saturated with a substance to impart a perfume to the smoke in its passage therethrough or may be medicated to produce a soothing or healing effect to counteract the irritating effect produced by the contact of smoke with the glands and mucous membranes of the mouth and throat of the smoker.

Various changes in the form, proportion,

and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I claim is—

A tobacco-pipe having a bowl, comprising a lower bowl-section forming a cavity for absorbent filling, and a removable upper bowl-section having a closed bottom perforated contiguous to its wall to form a reduced smoke-outlet, the stem being in communication with the interior of the lower section, and a foraminous disk fitted in the lower bowl-section to bear upon the upper surface of the absorbent filling therein, and provided with a central upward projection for contact with the center of the closed bottom of the upper bowl-section, whereby the fitting of said upper bowl-section to its place depresses the disk to compress the filling material, substantially as specified.

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

JAMES HANNAN.

Witnesses:

BENJ. MEERDINK,
G. M. TITUS.