

A. R. HAATVEDT.
SMOKE PIPE.
APPLICATION FILED JUNE 3, 1907.

903,710.

Patented Nov. 10, 1908.

Fig. 1.

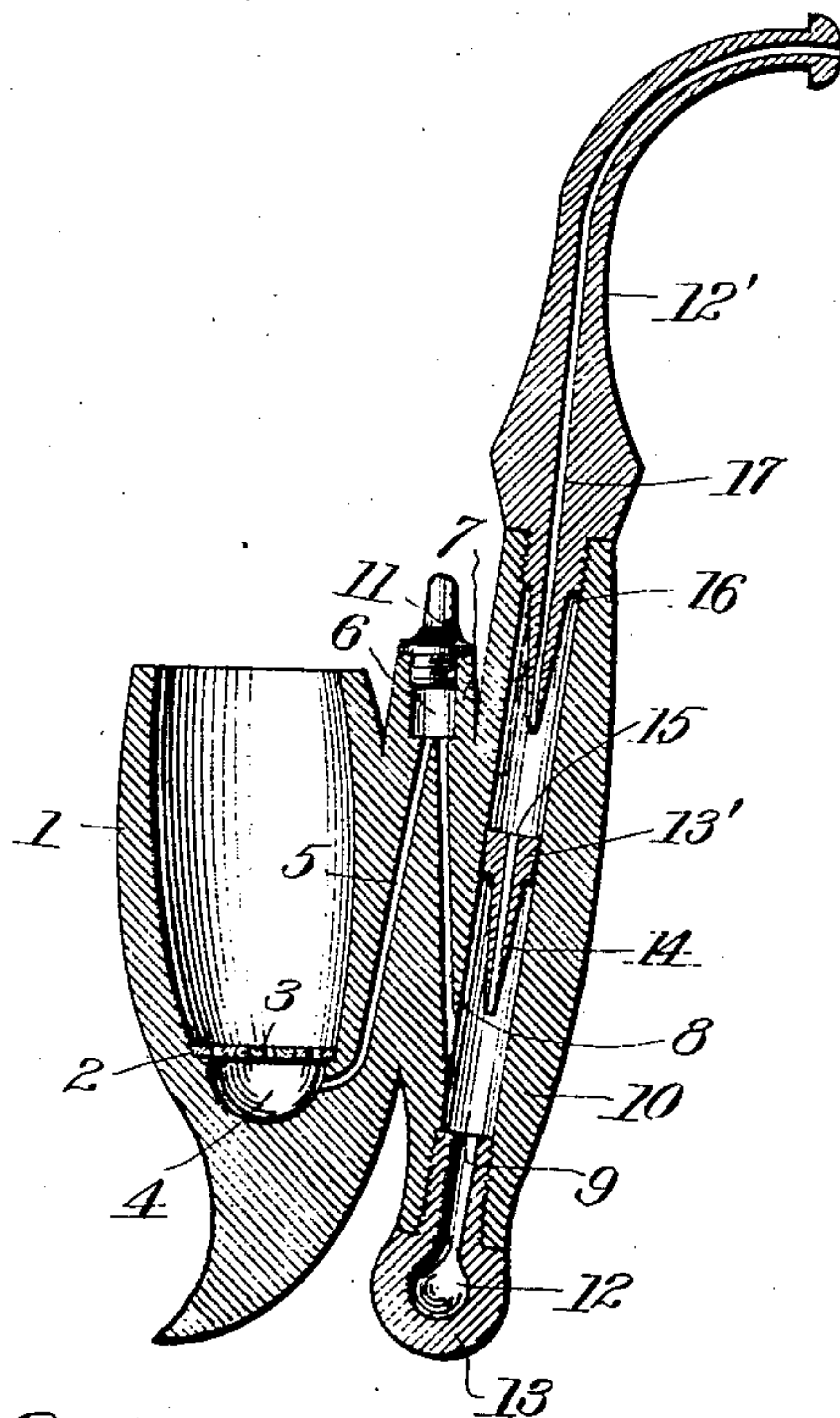


Fig. 2.

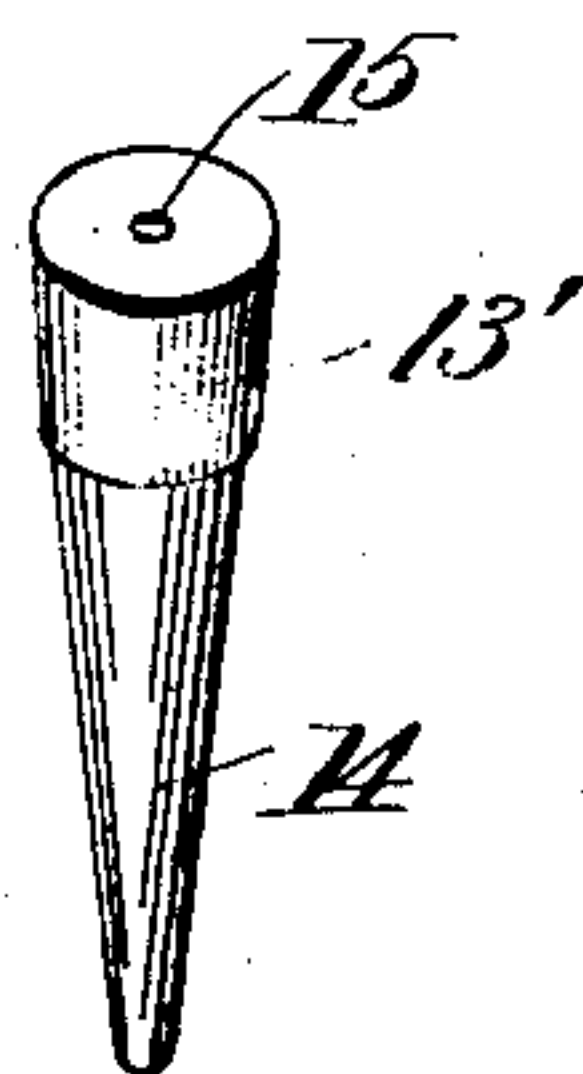
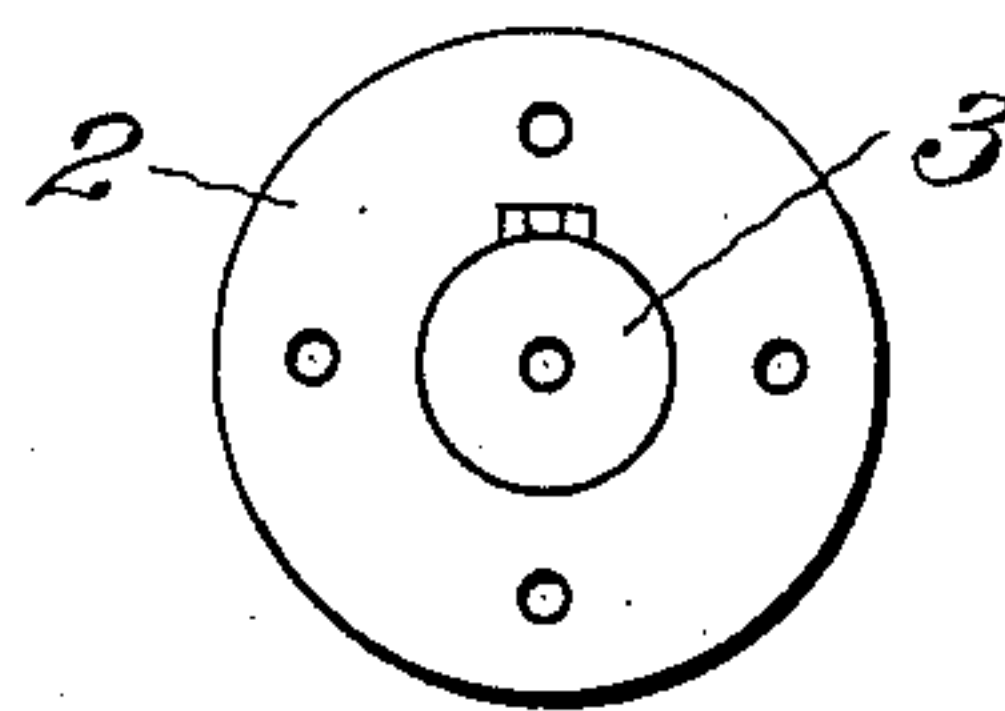


Fig. 3.



WITNESSES:

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SMOKE-PIPE.

No. 908,710.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ASLAK R. HAATVEDT, a citizen of the United States, residing at Crosby, in the county of Williams and State of North Dakota, have invented certain new and useful Improvements in Smoke-Pipes, of which the following is a specification.

This invention relates to smoke pipes.

One object of the invention is to provide a pipe embodying such characteristics that nicotine will be arrested and separated from the smoke in its passage from the bowl to the stem of the pipe.

Another object of the invention resides in the provision of a smoke pipe so constructed and arranged that parts thereof may be readily separated from its cooperating parts to facilitate the cleaning of the pipe.

With the above and other objects in view, the present invention consists in the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes may be made in the form, proportion, size and minor details without departing from the spirit or sacrificing any of the advantages thereof.

In the drawings:—Figure 1 is a sectional view of the invention. Fig. 2 is a detail perspective view of one of the nicotine arresting devices. Fig. 3 is a plan view of the trap to be fitted in the bottom of the bowl.

Referring now more particularly to the accompanying drawings, the reference character 1 indicates the tobacco bowl of the pipe having a perforated platform 2 near its bottom provided with the hinged perforated door 3, the perforations permitting the passage of nicotine and other residue there-through, a portion at least of the nicotine and residue being deposited in the chamber 4 beneath the platform 2 and the smoke passing from the chamber 4 by way of the smoke passage 5 disposed upon an incline rearwardly of the bowl and leading into the collecting chamber 6 formed in the top of the intermediate extension 7. Another passage 8 communicates with the chamber 6 and passes downwardly through the extension 7 to communicate at its lower end with the separating chamber 9 of the stem 10. The chamber 6 is provided with a removable closure 11, and by removing this closure, the passages 5 and 8 may be readily cleared of foreign substances, the foreign substances

accumulating in the separating chamber 9 precipitating into the cavity 12 of the removable closure or cap 13, whereby the separating chamber may also be readily cleared of foreign matter.

As the smoke and nicotine are drawn from the bowl 1 toward the mouth piece 12', the nicotine is separated in part in the chambers 4 and 6 and also in part in the lower end of the separating chamber 9. However, all the smoke may not have been sufficiently relieved of nicotine by the time it reaches the lower end of the separating chamber 9, and for this reason I provide a nicotine arresting or condensing device, including a head 13' and an inverted cone-shaped condensing surface 14. The head 13' and condensing surface 14 which are provided with a central bore 15 leading from the apex of the cone-shaped deflecting condensing portion, whereby as the smoke enters the lower end of the separating chamber 9, it may surround the condenser surface 14 of the arresting or condensing device and finally pass beyond the same through the passage 15 of the latter and play around the second arresting or condensing device 16, with the smoke finally passing outwardly through the passage 17 through the mouth piece 12.

From the foregoing it will be understood that there are three chambers 4, 6 and 9 and a cavity 12' to collect the nicotine or other residue in the passage from the bowl 1 to the mouth piece 12', and to further facilitate the precipitation of the nicotine and residue from the smoke I provide the arresting or condensing devices referred to. Thus residual moisture and nicotine is confined to the pipe and not permitted to pass into the smoker's mouth, as is frequently the case in the use of the ordinary pipes now in use.

As the result of the inverted cone-shaped portion of the arresting device, the nicotine impinging against the same, will drop therefrom by reason of such tapering formation and without hindrance of the passage of the smoke through the device.

What is claimed is:—

1. A smoke pipe comprising a bowl, a perforated disk mounted in the bowl in spaced relation to the bottom of the latter to form a trap, a separating chamber of uniform diameter throughout, a removable closure for the lower end of the separating chamber, a nicotine arresting device disposed within the separating chamber, a mouth piece secured to

the upper end of the separating chamber, a chamber disposed near the top of the bowl between said trap and said separating chamber and communicating with the trap and the separating chamber, and a removable closure for the second named chamber.

2. A smoke pipe comprising a bowl, a separating chamber, a removable closure for the lower end of the separating chamber, a nicotin arresting device disposed within the separating chamber, a mouth piece secured to the upper end of the separating chamber, a second chamber disposed near the top of the bowl between the bowl and the separating chamber and having direct communication with the bowl and separating chamber, and a removable closure for the second named chamber.

3. A smoke pipe comprising a bowl, a separating chamber of uniform diameter throughout, a nicotin arresting device disposed within the separating chamber, a mouth piece secured to the upper end of the separating chamber and having a nicotin arresting device at its inner end projecting into the separating chamber, another chamber disposed between the bowl and the separating chamber and communicating with the bowl and the separating chamber, and a removable closure for the second named chamber.

4. A smoke pipe comprising a bowl, a perforated disk mounted in the bowl in spaced relation to the bottom of the latter to form a trap, a separating chamber, a removable

closure for the lower end of the separating chamber, a nicotin arresting device disposed within the separating chamber, a mouth piece secured to the upper end of the separating chamber and having a nicotin arresting device formed therewith and projecting into the separating chamber above the aforesaid nicotin arresting device, a chamber disposed near the top of the bowl between the latter and said separating chamber and having communication with the separating chamber and also with the bowl beneath said perforated disk, and a removable closure for the second named chamber.

5. A smoke pipe comprising a bowl, a separating chamber, a removable closure for the lower end of the separating chamber, a nicotin arresting device disposed within the separating chamber intermediate the ends of the latter, a mouth piece secured to the upper end of the separating chamber and having a nicotin arresting device projecting into the separating chamber above the aforesaid nicotin arresting device, another chamber disposed between the bowl and said separating chamber and having communication with the latter and with the bowl, and a removable closure for the second named chamber.

In testimony whereof I affix my signature, in presence of two witnesses.

ASLAK R. HAATVEDT.

Witnesses:

R. H. POINTS,
ELLIS TAGSTAD.