

No. 612,657.

Patented Oct. 18, 1898.

W. O. BLASE.

SMOKE DEFLECTOR AND CLEANER FOR TOBACCO PIPES.

(Application filed Aug. 19, 1897.)

(No Model.)

Fig. 1.

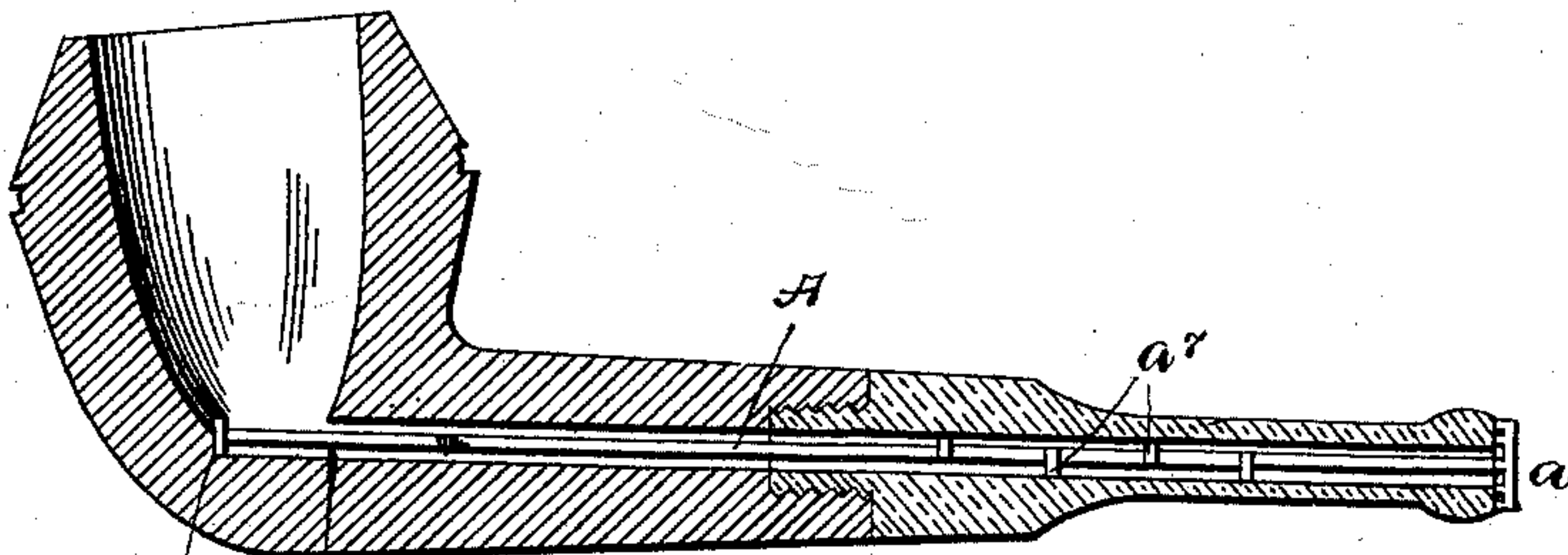


Fig. 2.

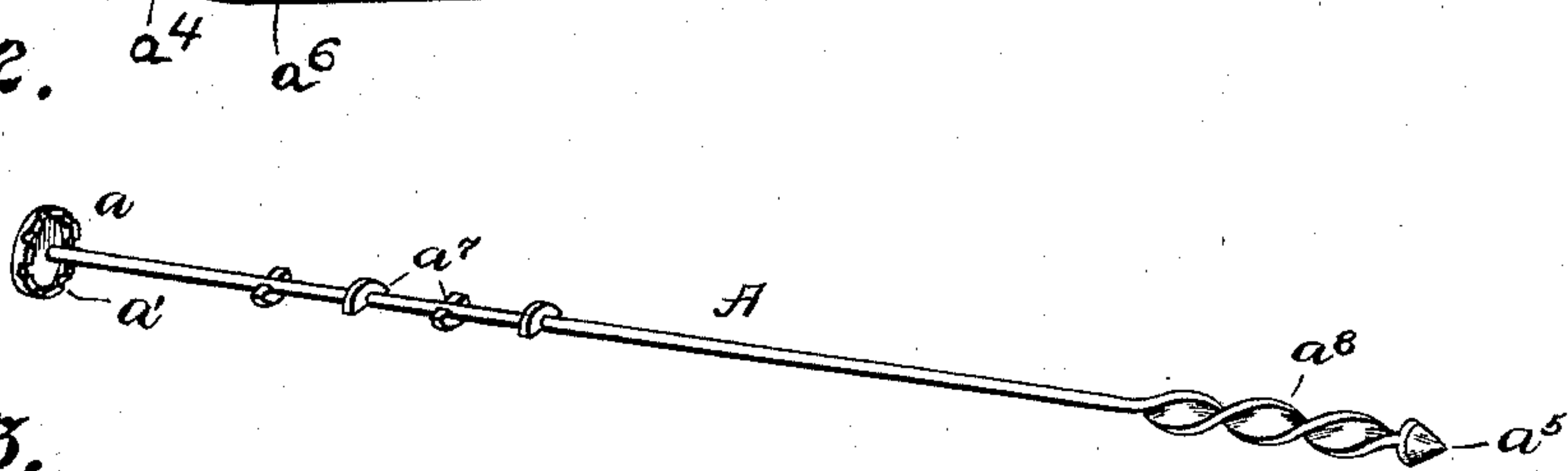


Fig. 3.

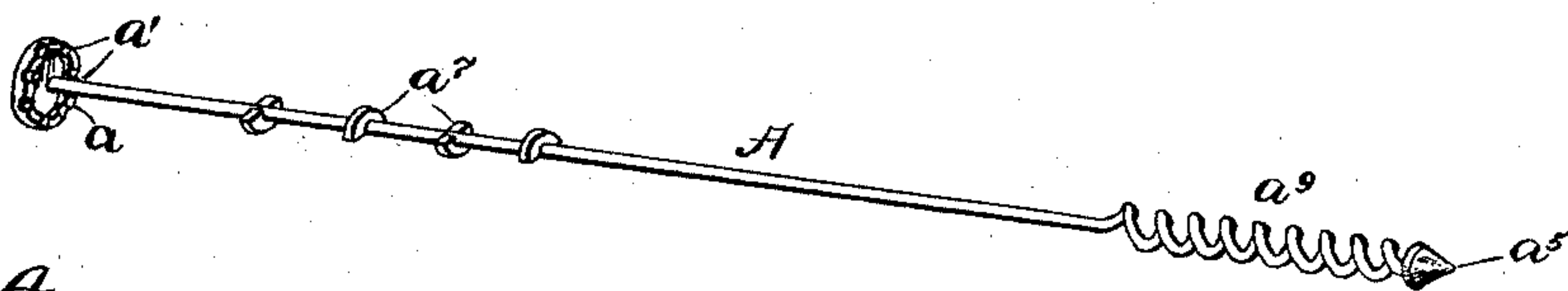
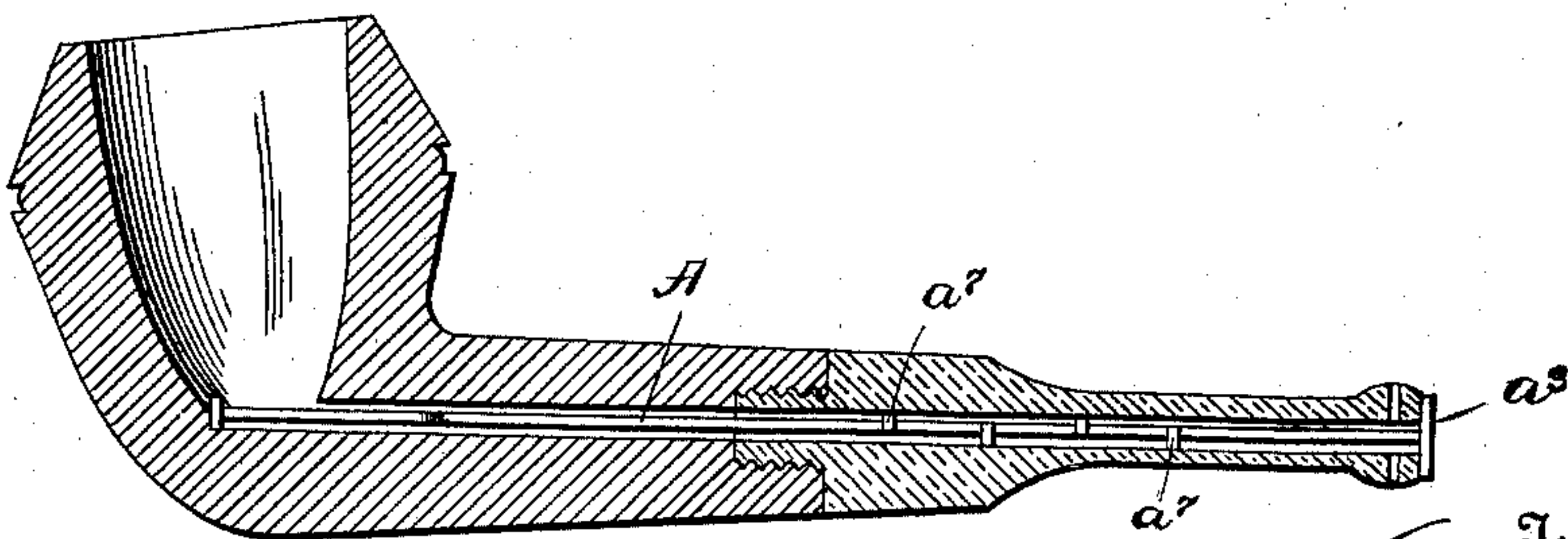


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM O. BLASE, OF WILKES-BARRÉ, PENNSYLVANIA.

SMOKE-DEFLECTOR AND CLEANER FOR TOBACCO-PIPES.

SPECIFICATION forming part of Letters Patent No. 612,657, dated October 18, 1898.

Application filed August 19, 1897. Serial No. 648,843. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM O. BLASE, a citizen of the United States, residing at Wilkes-Barré, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Smoke-Deflectors and Cleaners for Pipes, Cigar-Holders, and Cigarette-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in smoke-deflectors and cleaners for pipes, cigar-holders, and cigarette-holders and to pipes provided with such a device; and it consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter described and specifically claimed.

The objects of my invention are to provide a portable device which is designed and intended to remain in the pipe while smoking, which serves to deflect the smoke before it passes into the mouth and prevent the same from coming into direct contact at one point on the tongue of the smoker, and which can be readily used to clean out the pipe.

In the accompanying drawings, Figure 1 is a longitudinal section through a pipe with one form of cleaner and smoke-deflector shown within the same. Fig. 2 is a perspective view of a slightly-modified form of smoke-deflector and cleaner, showing the nicotine-collecting portion adjacent to the scraper made in the form of a flat spiral and the scraper being sharpened. Fig. 3 is a similar view, but in this instance the nicotine-collecting portion adjacent to the scraper is constructed of round wire bent into a spiral; and Fig. 4 is a vertical section through a pipe with my improved cleaner within the same, but with the smoke-escape passages provided in the pipe-stem instead of on the deflecting-head.

A in the drawings represents my improved smoke-deflector and cleaner, which consists, preferably, of a solid piece of suitable material—such as wire, hard rubber, wood, or wood fiber—which is provided on its outer end with a preferably solid head a , which in practice is slightly smaller in diameter than the end of the stem of the pipe and is made to fit the same snugly, so as not to be disagree-

ble to the smoker. The under side of the head of the cleaner and deflector may be provided with notches a' for the passage of smoke through the same, as shown in Fig. 2, or the head may be made flat, as at a^3 in Fig. 4, and the smoke-escape passages provided in the stem of the pipe. In either of these constructions the smoke will be deflected and pass out the sides of the head or stem of the pipe and enter the mouth at different points and not be concentrated at any one point on the tongue, as is the case when a pipe is smoked which is not provided with my invention. By constructing the stem or head solid instead of hollow no nicotine is permitted to enter the same, which would make it very objectionable and render the device practically impossible to clean, whereas with my construction the nicotine which collects on the stem and head can be readily removed by wiping it off with a cloth. If the stem of the attachment is made of metal, the head may be constructed of a material which is not a good conductor of heat, such as hard rubber, wood fiber, celluloid, amber, or the like.

The stem of the device may be constructed of material of any suitable shape in cross-section and is formed on its inner end with a scraper a^4 . The scraper is preferably sharpened, so as to assist in readily cutting out or breaking up any burned tobacco and nicotine which may collect in the bottom of the bowl of the pipe and at the entrance of the stem. The stem of the cleaner and deflector is of greater length than the stem of the pipe, so that when it is inserted within the same it will extend into the bowl proper of the pipe and remain in said position during the smoking operation, in order that the scraper will not in any way interfere with the passage of the smoke along the stem of the cleaner through the stem of the pipe.

The stem of the cleaner and smoke-deflector may be constructed with a flattened portion a^5 adjoining the scraper a^4 . The object of this construction is to permit the nicotine to collect upon the flattened portion and to admit of its ready removal and at the same time allow free course for the smoke. Along the stem of the cleaner between the head and the scraper are arranged partial or semicircular disks a^6 , secured to the stem at differ-

ent points along its length and at different points along the stem, so as not to interfere with the passage of the smoke and in the event of any nicotine passing up the stem 5 prevent the same from entering the mouth and also prevent saliva from passing from the stem into the bowl of the pipe. These disks also serve as frictional means to hold the cleaner in place within the pipe. The 10 nicotine-collecting portion instead of being flat may be made in the form of a flat spiral, as shown at a^8 in Fig. 2, or of a round spiral, as shown at a^9 in Fig. 3. In each instance the nicotine-collecting portion is formed by 15 enlarging the stem adjacent to the scraper. By this construction the nicotine will be collected on the spiral, and the spiral extending into and resting in the bowl of the pipe will not interfere with the passage of the 20 smoke through the stem of the pipe, and the spiral portion can be conveniently wiped off by pressing a piece of cloth into one of the spirals with the finger-nail, and revolving the cleaner will cause the cloth to travel the 25 length of the spiral and thoroughly clean the same.

The cleaner and deflector will be found very useful and convenient when granulated or fine tobacco is used, which is liable to clog 30 up pipes of ordinary construction. With my device the pipe can be readily cleaned and the passage-way opened by simply moving the device back and forth. It is obvious that the device may be applied to a pipe having 35 any suitably-shaped bore.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As an improved article of manufacture, 40 a cleaner and smoke-deflector for a pipe of ordinary construction, designed to remain in the pipe during the smoking operation, and which comprises in its construction a stem proper which is, throughout its entire length, 45 of considerably less diameter than the bore of the stem of the pipe and is provided on one end with a scraper and on its other end with a smoke-deflecting head, partial disks ar-

ranged on the stem at different points along its length and at different points around the 50 same with a considerable space between them so as to admit of its being readily cleaned, and an enlarged nicotine-collecting portion adjacent to the scraper and constituting a part of the stem of the attachment, substan- 55 tially as described.

2. As an improved article of manufacture, a cleaner and smoke-deflector for a pipe of ordinary construction designed to remain in the pipe during the smoking operation, and which 60 comprises in its construction a stem proper which is, throughout its entire length, of considerably less diameter than the bore of the stem of the pipe and is provided on one end with a scraper and on its other end with a 65 smoke-deflecting head, provided on its under side with smoke-escape passages, partial disks arranged on the stem at different points along its length and at different points around the same with a considerable space between them, 70 and an enlarged nicotine-collecting portion adjacent to the scraper and constituting a part of the stem of the attachment, substantially as described.

3. As an improved article of manufacture, 75 a combined smoke-deflector and cleaner for a pipe of ordinary construction comprising in its construction a wire stem which is of considerably less diameter than the bore of the stem of the pipe, flat semicircular disks se- 80 cured to the stem at different points along its length and at different points around the same with a considerable space between them, a scraper secured at the inner end of the stem which remains in the bowl of the pipe during 85 the smoking operation, a smoke-deflecting head secured at the outer end of the stem, and a flat nicotine-collecting portion adjacent to the scraper, substantially as described.

In testimony whereof I hereunto affix my 90 signature in presence of two witnesses.

WILLIAM O. BLASE.

Witnesses:

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PAUL SLOCUM.