

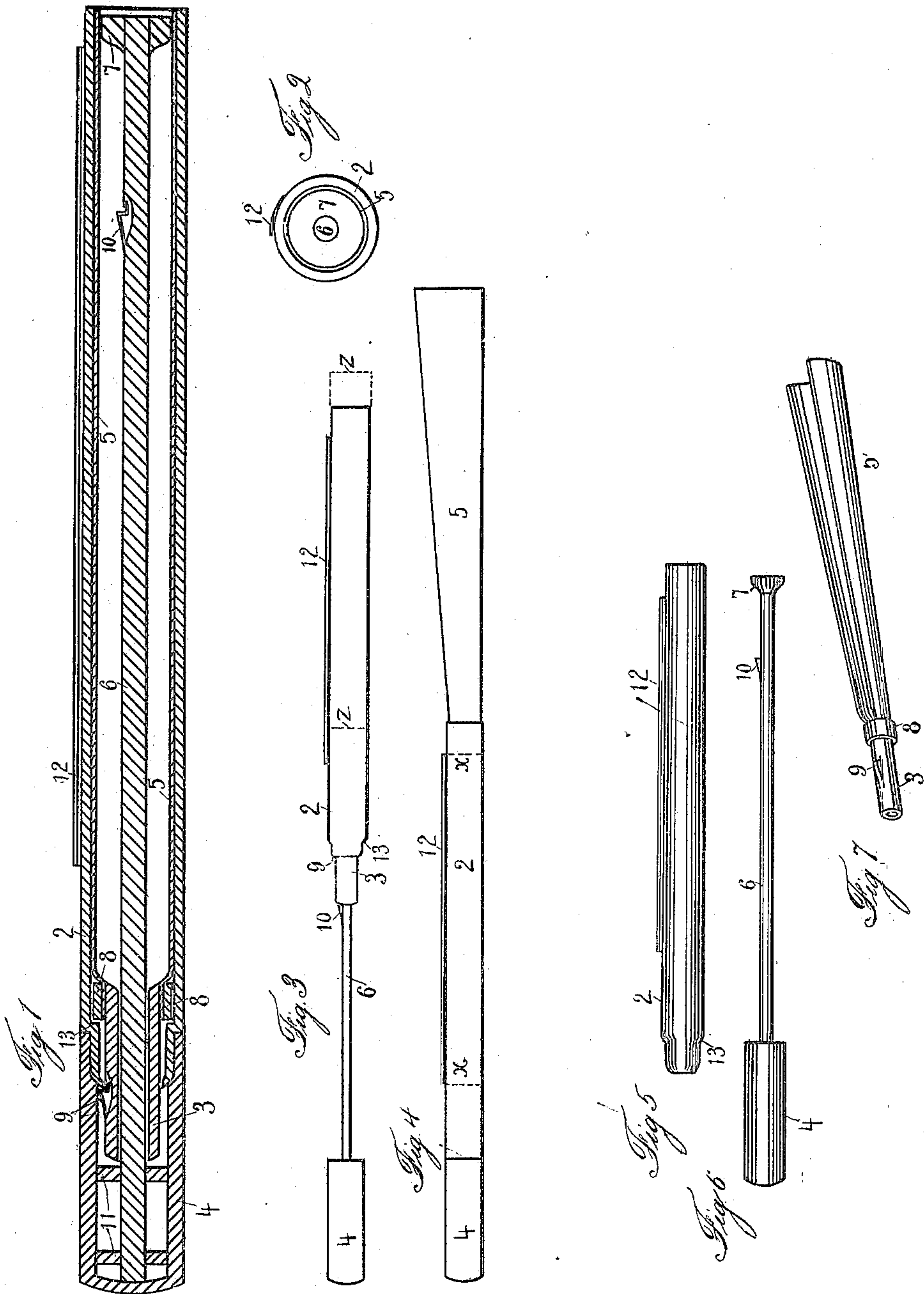
No. 680,708.

Patented Aug. 20, 1901.

T. F. FOLEY.
CIGARETTE FORMER.

(Application filed July 1, 1899.)

(No Model.)



WITNESSES

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CIGARETTE-FORMER.

SPECIFICATION forming part of Letters Patent No. 680,708, dated August 20, 1901.

Application filed July 1, 1899. Serial No. 722,546. (No model.)

To all whom it may concern:

Be it known that I, THOMAS FRANCIS FOLEY, residing at Clinton, in the county of Clinton and State of Iowa, have invented certain useful Improvements in Cigarette-Formers; and I do hereby declare that the following is 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, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a new and novel improvement in cigarette-formers.

The object of my invention is to provide a cigarette-former which is simple of construction and is so arranged that a cigarette may be readily rolled.

In the accompanying drawings I have shown in Figure 1 an enlarged central sectional view of a cigarette-former embodying my invention. Fig. 2 shows an end view of my cigarette-former. Fig. 3 shows a view disclosing the plunger as withdrawn in the first step of operating the former. Fig. 4 shows a cigarette-former disclosing the position of parts in the second step. Fig. 5 shows a detached detail of the holder. Fig. 6 shows a detached detail of the plunger used in my invention. Fig. 7 shows a detached detail of the scoop as used in my invention.

My invention embodies, essentially, a holder or housing 2, which is nothing more or less than an open-ended tube having one end slightly contracted to form the shoulder 13, as shown more clearly in Figs. 3 and 5. Secured to this holder 2 is a strip of sheet metal 12, as is shown in Figs. 1 and 2, under which one edge of the cigarette-paper is placed when the paper is to be wound around the holder. I find that this strip 12 is not at all essential, as it is merely of convenience to the makers of cigarettes in the beginning. As soon as an operator becomes expert this strip is no longer used, so that I do not consider it an essential part of my invention. Loosely held within this holder 2 is a scoop 5, comprising a section of pliable material, such as celluloid or spring-brass, which is of a width so that when united a tube is formed within the holder 2, as will be understood in referring to Fig. 2, where this scoop is shown in its closed

position within the holder 2. At one end this scoop is contracted so that its end may be bound upon the latching-sleeve 3, the scoop further being secured to this latching-sleeve by means of a collar 8, so that this scoop 5 is provided with a latching-sleeve at one end, and this sleeve is hollow, so that a suitable plunger may pass through the same. Snugly working within the cylindrical scoop 5 is a plunger-head 7, which is secured to the plunger-rod 6, which rod works through the latching-sleeve 3, and at its remaining end, by means of the disk 11, is secured to a suitable cap 4, as will be more readily understood in referring to Fig. 1. Near the head 7 this plunger is provided with a spring-latch 10, as is shown in Figs. 1 and 6. The latching-sleeve 3, which forms part of the scoop 5, is also provided with a latch 9 near one end, and this latch is so positioned that when the scoop 5 is withdrawn into the holder 2 the latch 9 locks about the contracted end of the holder to removably hold said scoop within the holder, as is shown, for instance, in Figs. 1 and 3, when the scoop is shown in its locked position within the holder.

The cap 4, secured to the plunger 6, is provided with a recessed end, so that it snugly works over the contracted end of the holder 2, so that when said plunger is shoved and entirely held within the holder this cap 4 and the holder 2 form a neat union, and in appearance this holder and cap seem to form but a single piece of undivided tubing.

In Fig. 7 the scoop, as well as the latching-sleeve 3, with its connected latch 9, is clearly shown, the scoop naturally opening whenever the same is shoved out of the holder, this scoop 5 being shown as carried out of the holder 2 in Fig. 4. From this it will be noticed that as far as described my invention embodies the following instrumentalities—to wit, a holder, a scoop working within said holder, and a plunger within said scoop.

When the instrumentalities have been properly constructed, the operation of my device, which is about the size and less in length than an ordinary lead-pencil, would be as follows: The former being closed, as is shown in Fig. 1, the first step would be to grasp the cap 4 and withdraw the plunger 6 until the latch 10 locked outside of the latching-sleeve 3, as

is shown in Fig. 3. By this operation the plunger has been made a part of the scoop 5, which, however, is locked or latched within the holder 2. The next step would be to depress the latch 9 and by means of the latching-sleeve 3 or operating-cap 4 shove the plunger 6 back into the holder, which operation, however, would carry outward the scoop 5 beyond the holder 2, as in the first operation the scoop and plunger had been united. The scoop 5 is then filled with a sufficient amount of tobacco, and when properly filled the operating-cap 4 is again withdrawn from the holder 2, which operation carries inward the tobacco-charged scoop 5, so that the instrumentalities would again assume the position as disclosed in Fig. 1, with the exception that the scoop would now be full of tobacco. The next operation would be to place an ordinary piece of cigarette-paper about the holder 2 to form a jacket, as it were, for this holder and secure the edge of this paper so as to form a holder for the tobacco. In Fig. 4 the letters $x x$ would approximately show the position occupied by the paper about the holder. The next step would be to shove forward the paper jacket until it occupied the position indicated by the dotted lines $z z$ in Fig. 3, when the forward edge of the paper tube would be tightly twisted, so as to close its end. As far as described, referring now to Fig. 1, the plunger 7 would be at the end adjacent to the collar 8, the whole scoop 5 being filled with tobacco, while the plunger 6 is locked to the latching-sleeve 3. In our next operation we would depress the spring 10, referring now to Fig. 3, which discloses the plunger in its forward position,

so as to shove the plunger inward, and this inward shoving of the plunger would drive forward the tobacco within the scoop, and this tobacco in front would come in contact with the closed paper covering or cigarette-holder proper, and as the plunger is advanced the holder would be forced outward more and more, of course continually charged with tobacco, until finally it could be entirely removed in the form of a complete cigarette one end of which is open and the other closed, and in this condition after the cigarette had been removed the instrumentalities would be in a position as shown in Fig. 1.

Now, having thus described my said invention, what I claim as new, and desire to secure by United States Letters Patent, is—

1. An open-ended holder, in combination with a scoop slidably held within said holder, a latching-sleeve secured to said scoop and adapted to be detachably secured to said holder, and a plunger working within said scoop and provided with a latch, said plunger being adapted to be detachably secured to said latching-sleeve.

2. In a cigarette-former, the combination of the following instrumentalities, to wit: the open-ended holder 2, provided with the shoulder 13, in combination with the scoop 5, the latching-sleeve 3 secured to said scoop 5, the latch 9 within said sleeve 3 and the plunger 6 passing through said latching-sleeve and provided with the latch 10, said plunger being provided with the head 7.

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Witnesses:

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