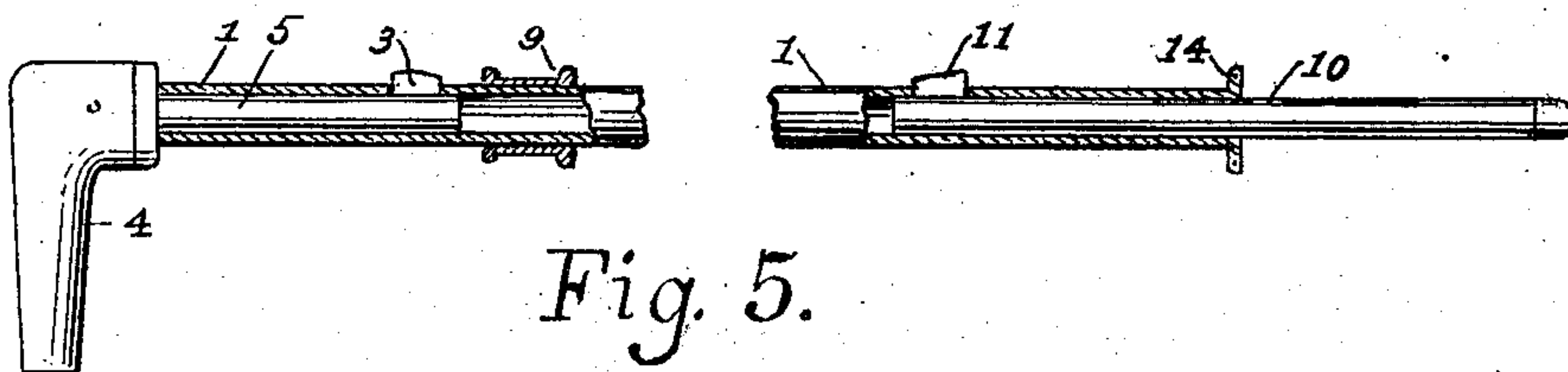
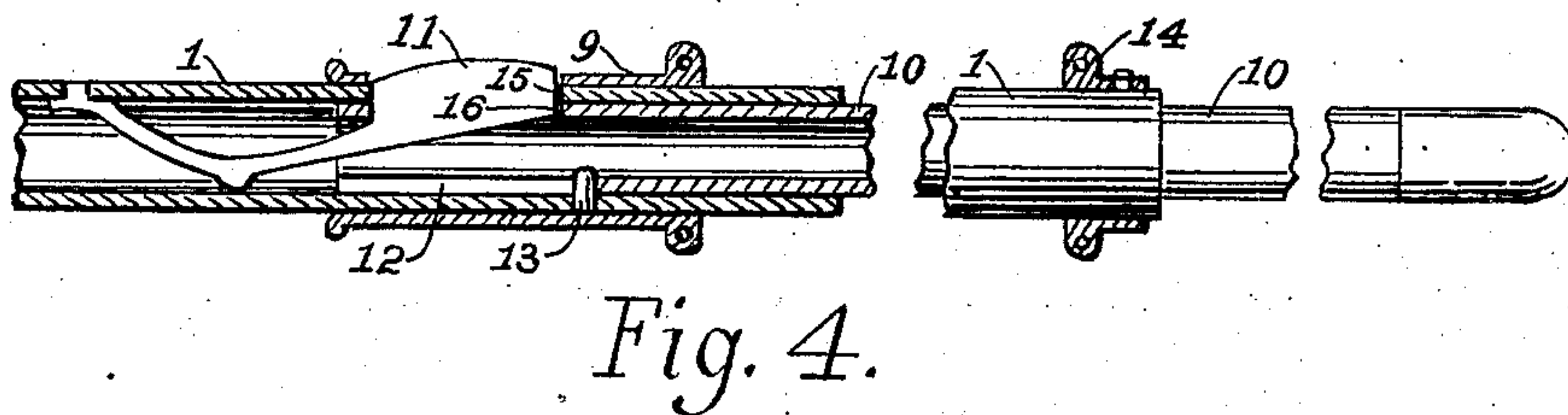
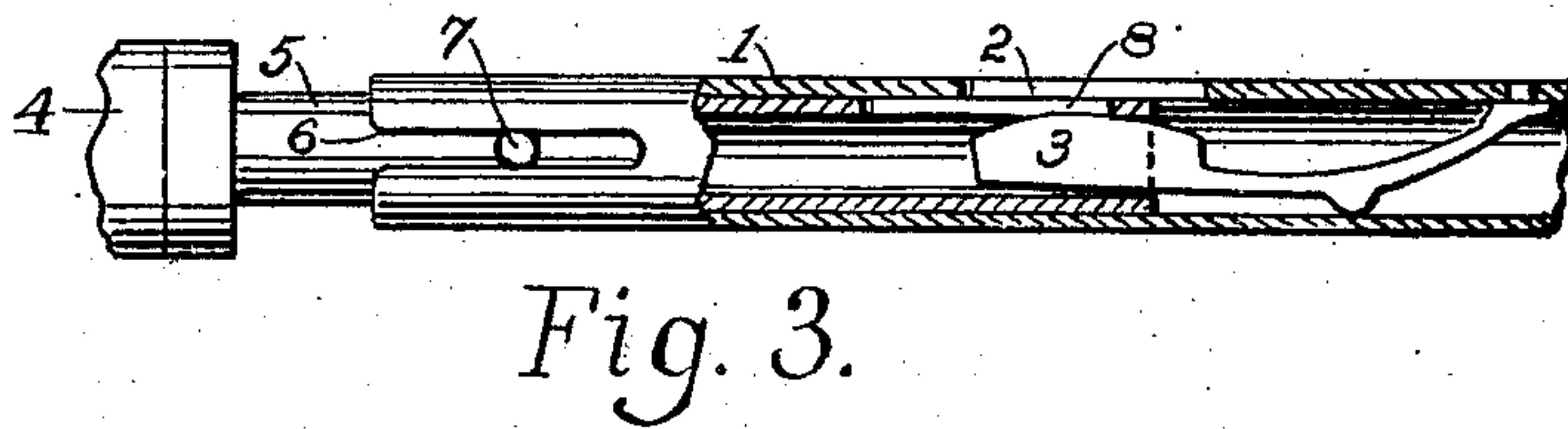
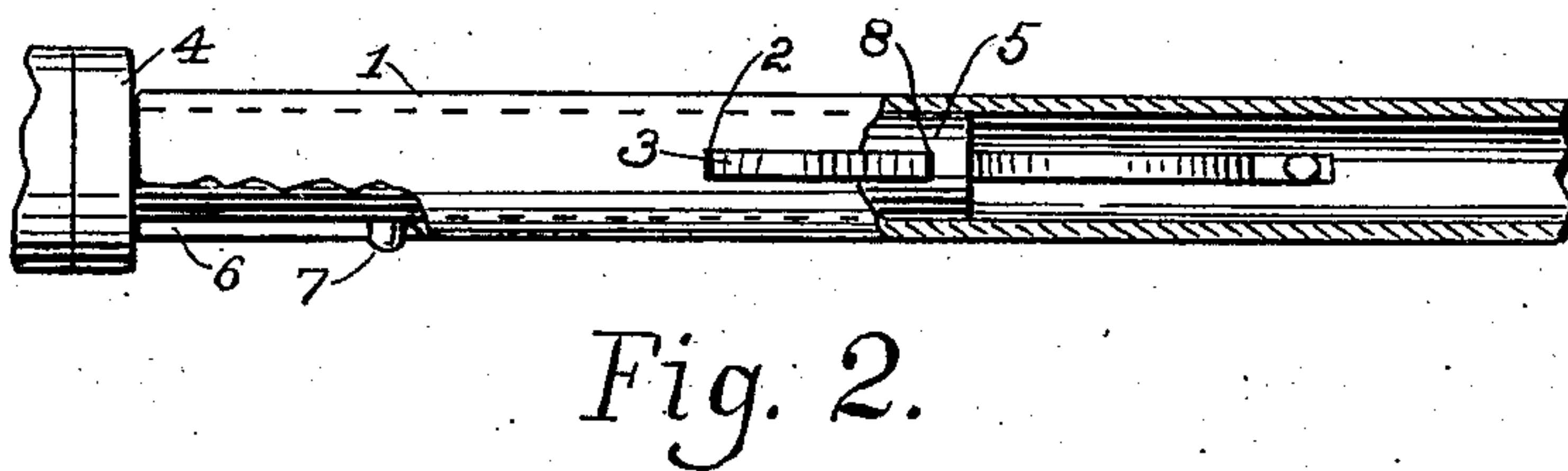
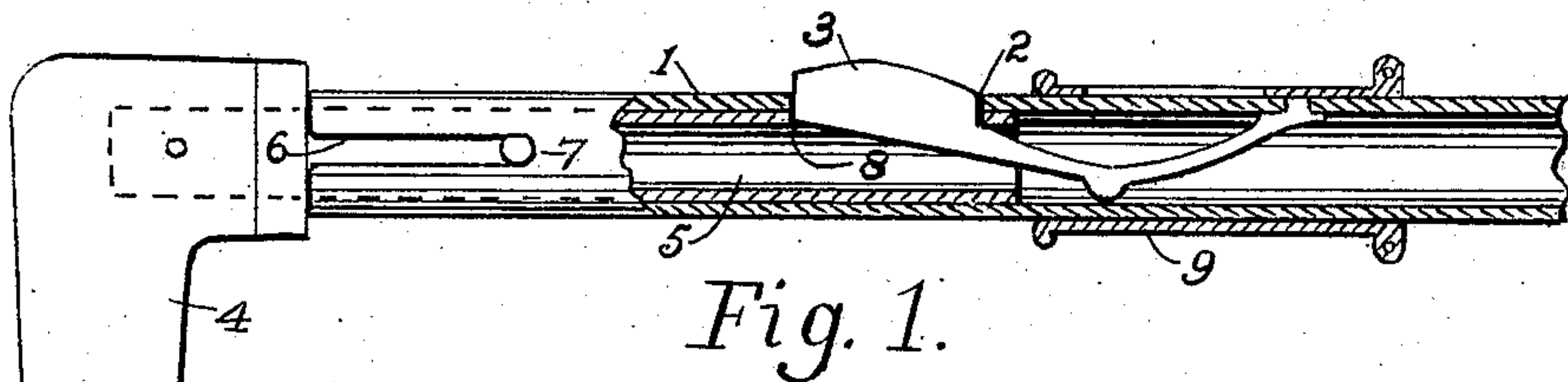


No. 849,833.

PATENTED APR. 9, 1907.

L. COWEN.
UMBRELLA.
APPLICATION FILED OCT. 26, 1905.



WITNESSES:

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UMBRELLA.

No. 849,833.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed October 26, 1905. Serial No. 284,485.

To all whom it may concern:

Be it known that I, LOUIS COWEN, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Umbrellas, of which the following is a specification.

This invention relates to detachable handles for umbrellas, parasols, and the like, the object being to produce an umbrella in which either the handle or tip, or both, are removable without any added locking devices beyond the ordinary springs found in all umbrellas at both the top and bottom limits over which the "runner" travels.

In umbrellas having removable handles it has been customary heretofore to provide a locking means specifically for that purpose, whereas I utilize the present springs, altering outer edge slightly and adding a few inches of rod or tubing, thus producing an effective, cheap, and simple device, as will be more fully hereinafter described.

In the accompanying drawings, which form part of this specification, Figure 1 is a side elevation of an umbrella-stick, partly in section, embodying my invention. Fig. 2 is a top view of same, parts being broken away to show the interior construction. Fig. 3 is a side view, also partly in section, showing position of the spring when the handle is being either inserted or withdrawn. Fig. 4 is a view of the upper end of the "stick" of an umbrella, partly in section, and tip; and Fig. 5 is a view of a complete stick minus the frame, the drawing being on a reduced scale and showing arrangement of handle and tip without the details.

Similar reference-numbers indicate similar parts in the several views.

1 is a stick or tube having the usual slot 2, in which the spring 3 works. The stick does not enter the handle 4, but telescopes with a tube or rod 5, which is fastened in the handle in any preferred manner. The tube 1 is provided with a longitudinal slot 6 at its lower end, which, with a pin 7 in the tube 5, acts as a guide to facilitate the spring 3 to enter a slot 8, which is near the free end of the tube 5. When this inner tube is pushed in to its full limit, the slots 2 and 8 are on a line with each other, the spring 3 holding both parts securely together, as shown in Figs. 1 and 2. The pin 7 also prevents side strains or torsion and tends to strengthen the rod or stick at the handle end in case a person

presses down heavily upon it, as when using the umbrella as a cane. The spring is of the usual shape; but I prefer to round off the operative edge lengthwise, so the runner will press down spring just far enough to pass over it and not depress the spring so much as to cause it to enter the slot 8 and leave slot 2, whereby the two parts 1 and 5 can become separated. The spring is riveted or fastened to tube 1 in any preferred manner.

9 is the usual runner, no ribs or rods being shown.

In Fig. 4 I show substantially the same mechanism for making the tip 10 detachable, the spring 11 being reversed in its position and a slot 12 being in the tip, this slot acting with a pin 13, which is placed within the tube 1, as shown. 14 is the "notch," so called, which is fastened near the end of the tube by rivets or otherwise. 15 is a slot for spring 11 in tube, and 16 is slot for the spring in tip 10.

Such being the construction, the operation is as follows: We will assume the umbrella as being complete, ready for use. To detach the handle, slip up runner to above the spring, depress spring until the outer edge is on a line with the periphery of tube, then pull handle, the thumb-piece of spring being pressed downward into the tube 5 by this action until the latter passes beyond the influence or range of the spring. The handle can then be withdrawn and the runner be pulled back into place beyond the spring, where it will be locked.

In operating the runner only when handle is in its place in tube the spring cannot be depressed sufficient to cause it to release the inner tube 5. This can only be done when the runner is away from the spring and it is left free to be depressed into the slots in which it articulates.

If an umbrella is also provided with a removable tip to facilitate its being packed into a dressing-case or other small space, then it is partly opened by having the runner a few inches below the spring 11, which is depressed until the outer end of the slot 12 engages the face of the spring, when the tip is pulled out, leaving only the stick or tube proper in one length, the tip or handle, or both, having been removed. To reinsert handle or tip, depress spring, enter the part in tube 1, and turn until the pin engages the guide-slot in the end, then depress spring so the metal forming the outer boundary of the slot will ride over the spring and continue to

advance until the two slots in the inner and outer tube are on a line, when spring will snap into place and fasten parts together.

By standardizing the diameter of tube 1, also the length and distance of slot at both upper and lower springs, an umbrella manufacturer need only make the stick or tube and the covered frame, and if the tip and handle are in the possession of a purchaser he need only buy the useful or operative parts, or in the event of a tip breaking or bending it can be quickly replaced by a new one.

Such being my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an umbrella, the combination of a handle, provided with a tube having a slot near its free end, and of a stick or tube having a spring articulating in a slot and adapted to engage simultaneously the said two slots and a runner when they aline for the purpose specified.

2. In an umbrella the combination of a de-

tachable handle having a tube, a guide-pin, and a spring-slot, of a tube or stick carrying a spring articulating in a slot, said spring operating with the runner and affording a means for detachably locking said handle to said stick substantially as described.

3. In an umbrella the combination of a detachable handle provided with a tube having a slot near its free end, of a stick or tube having a spring articulating in a slot and adapted to engage simultaneously the said two slots and a runner when they aline, and of a removable tip and means for removably fastening said tip in position in the end of an umbrella-stick, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 23d day of October, 1905.

LOUIS COWEN.

Witnesses:

LOUIS H. ALMANDUS,
GEORGE W. MURRAY.