

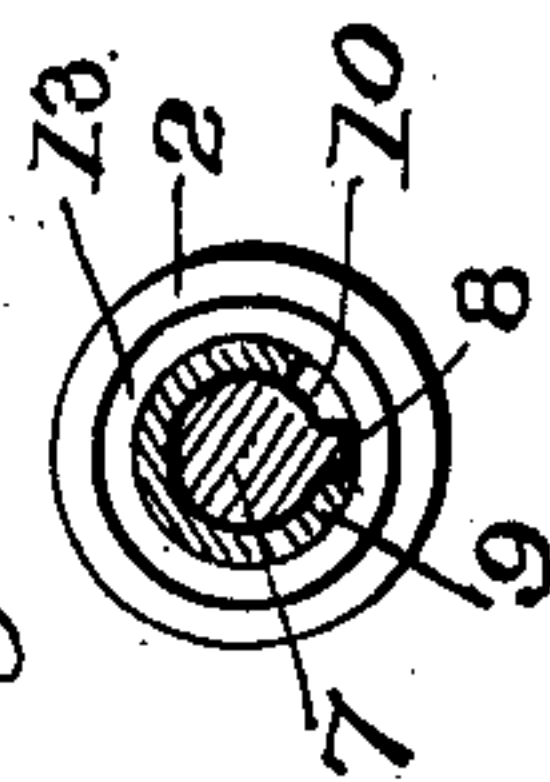
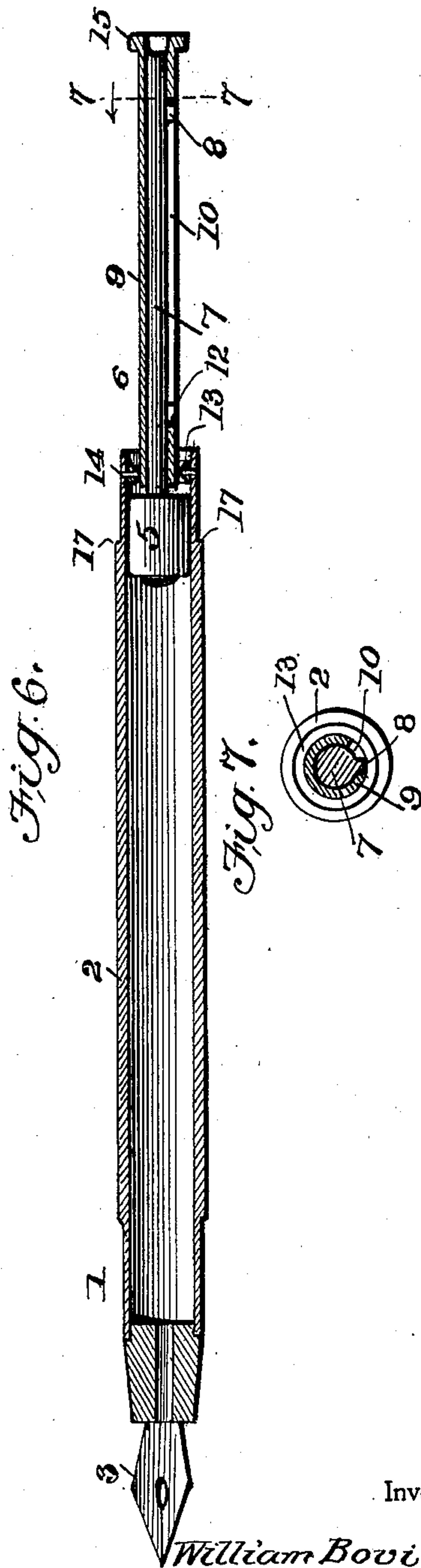
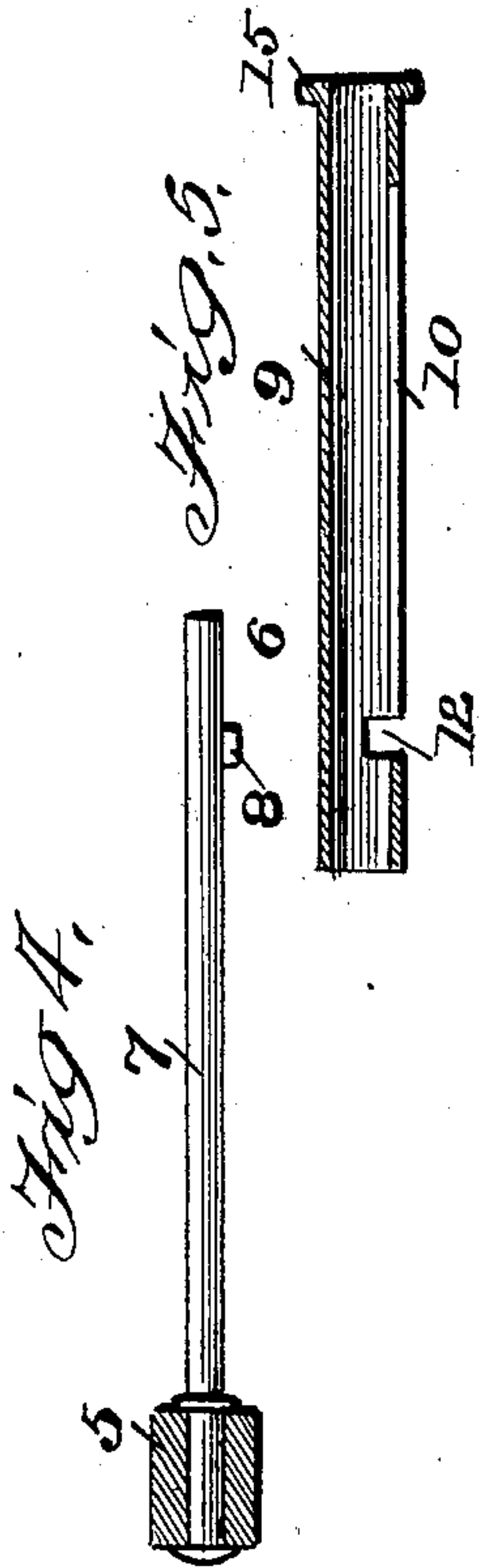
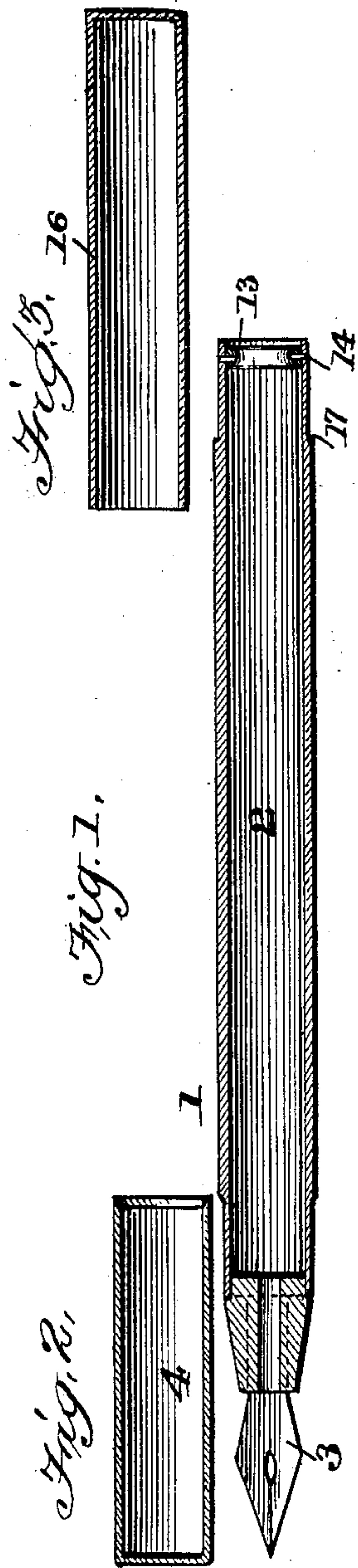
No. 754,416.

PATENTED MAR. 15, 1904.

W. BOVILL.
FOUNTAIN PEN.

APPLICATION FILED NOV. 5, 1903.

NO MODEL.



Witnesses

Jos. A. Ryan

William Bovill

Inventor

William Bovill.

By

A. B. Wilson

Attorney

UNITED STATES PATENT OFFICE.

WILLIAM BOVILL, OF CHICAGO, ILLINOIS.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 754,416, dated March 15, 1904.

Application filed November 5, 1903. Serial No. 179,950. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BOVILL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fountain-Pens; and I do 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.

This invention relates to improvements in fountain-pens, and particularly to means carried by the pen, whereby the same may be quickly and easily filled.

A further object is to provide such means which will be simple, strong, efficient, and capable of being collapsed or reduced in size when not in use, thereby permitting the pen-holder to be made in compact form.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of the barrel or casing of a pen embodying the invention. Figs. 2 and 3 are similar views of the end caps of the barrels. Fig. 4 is a view in longitudinal section and elevation, respectively, of the piston and its fixed stem or inner rod-section. Fig. 5 is a longitudinal section of the outer tubular section of the piston-rod. Fig. 6 is a view similar to Fig. 1, showing the piston applied and drawn out for filling the pen; and Fig. 7 is an enlarged cross-sectional view taken on line 7 7 of Fig. 6.

Referring to the drawings more particularly, 1 denotes a fountain-pen which may be of the usual or any suitable construction, consisting of a barrel portion 2 and a pen-point 3, which when not in use is adapted to be inclosed by the usual removable cap 4.

Within the barrel 2 is arranged a piston 5, which is adapted to closely fit within the inner walls of said barrel. The piston 5 is provided with a two-part piston-rod 6, consisting of an inner section 7, which is fixed to the piston at its inner end and is provided near its outer end with a laterally-projecting pin or lug 8.

On or around the inner section is arranged an outer tubular section 9, open at each end and provided with a longitudinal slot 10, which extends from the outer end of the tube to within a short distance of the inner end of the same, at which point said slot is formed with a right-angular offset or recess 12. When the two sections of the piston-rod are assembled, the inner section 7 is adapted to slide within the outer section, with lug 8 engaging the slot in the same. When said sections have been extended to their full length, the outer section is given a slight turn, which will engage the recess 12 with the lug 8, thereby locking the parts against telescopic movement.

The combined length of the two sections of the piston-rod is equal to or slightly greater than the length of the interior of the barrel 2, so that when said sections are in their extended positions and locked the piston 5 may be pushed into the pen end of the barrel and then withdrawn to create a sucking action after the manner of a syringe and by which movement or action of the piston the pen may be filled upon the insertion of the pen end of the same into a receptacle containing ink.

A stop 13 is arranged at the end of the barrel 2 opposite the pen end thereof, by which the outward movement of the piston 5 is limited, thereby preventing the piston from being entirely withdrawn. The stop 13 may be of any suitable construction, but is here shown as an annular ring or collar arranged within the barrel 2 at the outer end of the same and removably secured thereto by means of pins or screws 14.

The outer end of the tubular section of the piston-rod is provided with a head or enlargement 15, by which the same may be operated. When the sections of the piston-rods have been telescoped together after having drawn the piston outwardly to fill the pen, they may be inclosed by a cap 16, which is adapted to fit over the end of the barrel, said end being reduced to form a shoulder or seat 17, against which the end of the cap abuts and which prevents the same from being forced too far onto said barrel.

From the foregoing description, taken in connection with the accompanying drawings,

the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, 5 and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I 10 claim as new, and desire to secure by Letters Patent, is—

1. In a fountain-pen, the combination with the barrel or body of the same, of a piston 15 arranged to reciprocate therein, a piston-rod comprising an inner section fixed to said piston, an outer tubular section slidably mounted on said inner section, a pin-and-slot connection between said sections and means whereby the same may be locked in extended positions, 20 substantially as described.

2. In a fountain-pen, the combination with the barrel or body of the same, of a piston 25 arranged to reciprocate therein, a piston-rod comprising an inner section fixed to said piston and having a laterally-projecting pin or lug, an outer tubular section slidably mounted on said inner section and having a longitudinal slot formed therein to engage said pin or lug, and a right-angularly-formed recess com-

municating with said slot and with which said 30 pin or stud may be engaged to lock said sections against telescopic movement, substantially as described.

3. In a fountain-pen, the combination with the barrel or body of the same, of a piston 35 arranged to reciprocate therein, a piston-rod comprising an inner section fixed to said piston, and having a laterally-projecting pin or lug, an outer tubular section slidably mounted on said inner section and having a longitudinal 40 slot formed therein to engage said pin or lug, a right-angularly-formed recess communicating with said slot and with which said pin or stud may be engaged to lock said sections against telescopic movement, a ring or 45 collar removably secured in the outer end of said pen-barrel to limit the outward movement of said piston, and means for removably securing said collar within said barrel, substantially as described. 50

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM BOVILL.

Witnesses:

HERMAN C. GRUPE,
JULIA C. SNYDER.