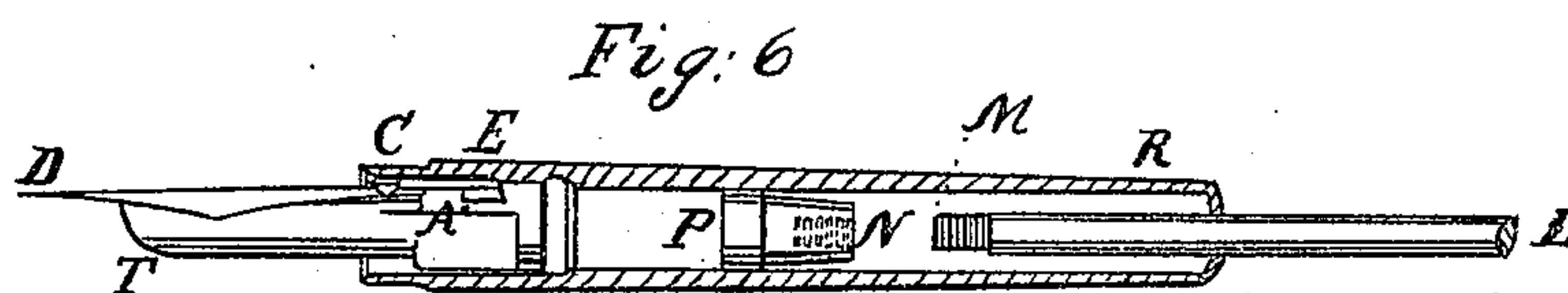
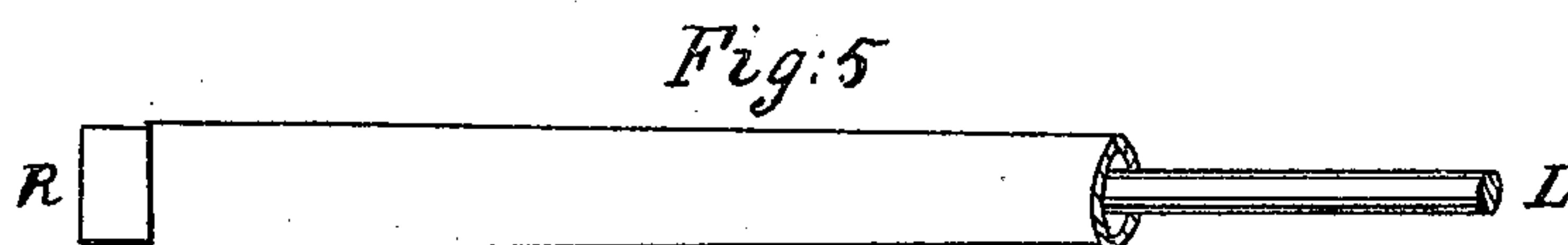
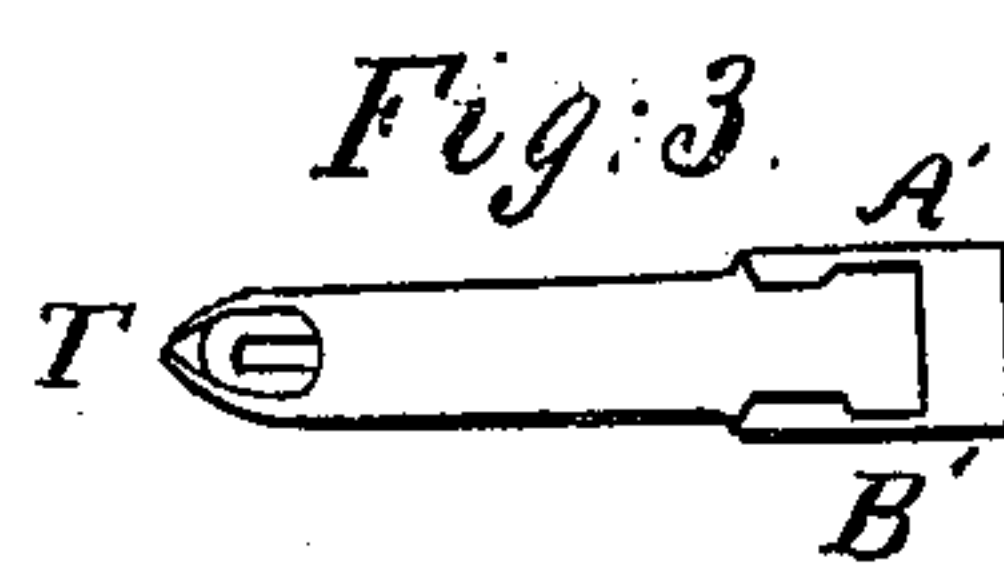
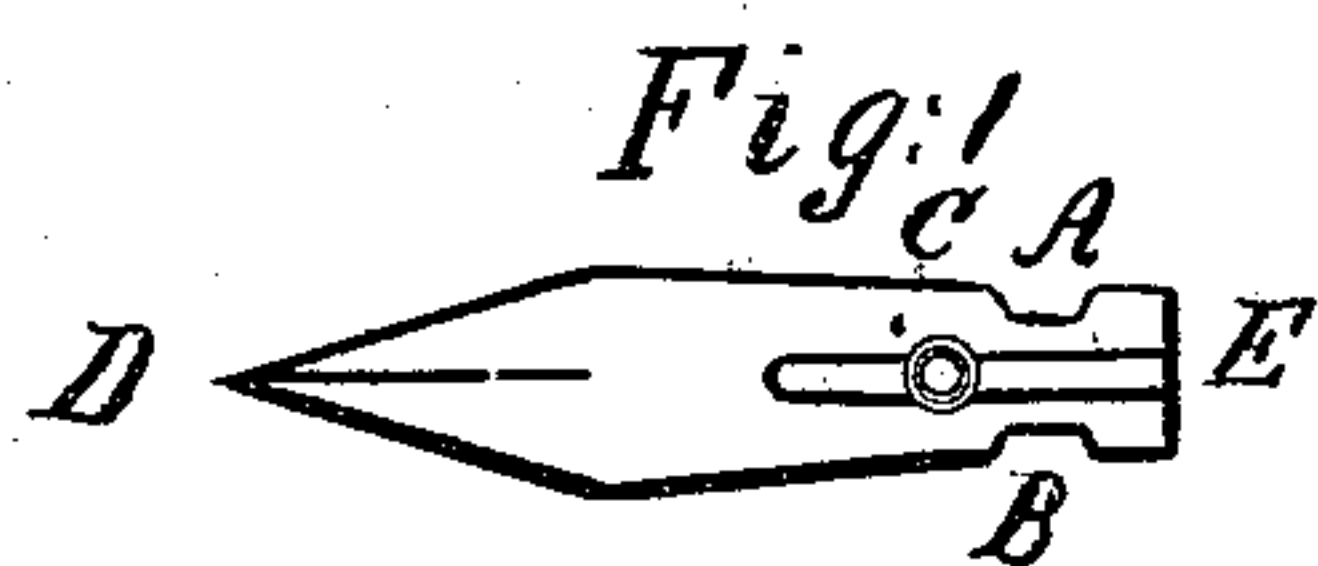


N. A. Prince.
Fountain Pen.

N^o 13,995.

Patented Dec. 25, 1855.



UNITED STATES PATENT OFFICE.

NEWELL A. PRINCE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN FOUNTAIN-PENS.

Specification forming part of Letters Patent No. 13,995, dated December 25, 1855.

To all whom it may concern:

Be it known that I, NEWELL A. PRINCE, of Brooklyn, in Kings county, and State of New York, have invented a new and useful Improvement in Fountain-Pens; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In said drawings, Figure 1 represents a ground view of my new and improved form of fountain-pen. Fig. 2 represents a side elevation of the same. Fig. 3 represents a ground view of my new and improved feeding-tube. Fig. 4 represents a side elevation of the same. Fig. 5 represents a section of the main reservoir-tube. Fig. 6 represents a longitudinal vertical section of the pen and feeding-tube as inserted in the main reservoir-tube, and also of the piston-head and piston-rods detached from each other.

The pen D E (see Fig. 1) is notched at or near its heel at the points A and B.

In the feeding-tube, Fig. 3, the upper part of which is partially flattened or filed down, there is a notch or lock (see Fig. 3, letters A' and B') which corresponds to the form of the pen just referred to in Fig. 1, so that when the pen is placed upon the feeding-tube and with it inserted or infixed in the main reservoir-tube (see Fig. 6, letter R) it is held fast in its position, so that it cannot move laterally nor slip out of its place.

It will be seen by referring to Fig. 6 and letters E and A' that the pen is interlocked with the feeding-tube.

On the back part of the pen, near its heel, I make a small elevation or bead, as seen at C in Figs. 1 and 2, the design of which is to keep the pen from lifting too much in writing. The top part of this elevation or bead in writing comes in contact with the inside of the main reservoir-tube (see Fig. 6, letter R) at the point C. It is of special importance in flexible pens and in those the width of which, taken at the distance of three-eighths of an inch from the upper end, is less than the inside diameter of the main reservoir-tube.

The advantages of interlocking the pen and feeding-tube are that the pen is kept firmly

in its place, is not easily broken by compression, and the facility with which a new pen can be inserted or put in.

In inserting the pen take out the feeding-tube, place the pen upon it, and then insert both together into the main reservoir-tube. The pen and feeding-tube must always be taken out together. The heel of the pen should be inserted in the main reservoir-tube three-eighths of an inch, more or less.

The bead or elevation on the back of the pen can be dispensed with where the pen, three-eighths of an inch from its upper end, is as broad as the inside diameter of the main reservoir-tube at its lower end; but it is of special importance in pens that are narrower. The pen must be made to fit the feeding-tube perfectly, or the feeding-tube the pen, especially at the points where the two are interlocked.

The piston-rod and piston-head, as seen in Fig. 6, letters L and P, are so made that the former can be easily attached to or detached from the latter. The upper part of the piston-head (see letter N) is made with a "tap-hole." The lower end of the piston-rod is furnished with a "screw-thread," so that it can be attached to the piston-head when it is necessary to fill the reservoir-tube with ink. The advantage of this combination is that after the reservoir-tube has been filled with ink, the piston-head being drawn tightly into its seat, the piston-rod can be detached therefrom and laid aside. The long corrugation, as seen on the back of the pen in Fig. 1 between A and B, is simply to give the pen sufficient strength when made of gold that is not very thick. On this corrugation I make no claim.

The claims I now make are for improvements in addition to those already made and patented January 23, 1855.

Having thus described my improvements, I claim as my improvement and desire to obtain Letters Patent therefor—

1. The elevation or bead on the back part of the pen near its heel, being designed to keep the pen, by coming in contact with the inside of the main reservoir-tube, from lifting too much, substantially the same as set forth or de-

scribed in the foregoing specification and the accompanying drawings.

2. The pen notched near its heel and the combination of the same with the feeding-tube correspondingly notched, so that the two placed together and infixed in the main reservoir-tube the pen cannot get out of its posi-

tion, substantially the same as set forth or described in the foregoing specification and the accompanying drawings.

NEWELL A. PRINCE.

Witnesses:

T. G. STEARNS,

H. MEYER.