(Model.)

W. B. GREENE.
Fountain-Pen.

No. 227,894. Patented May 25, 1880.

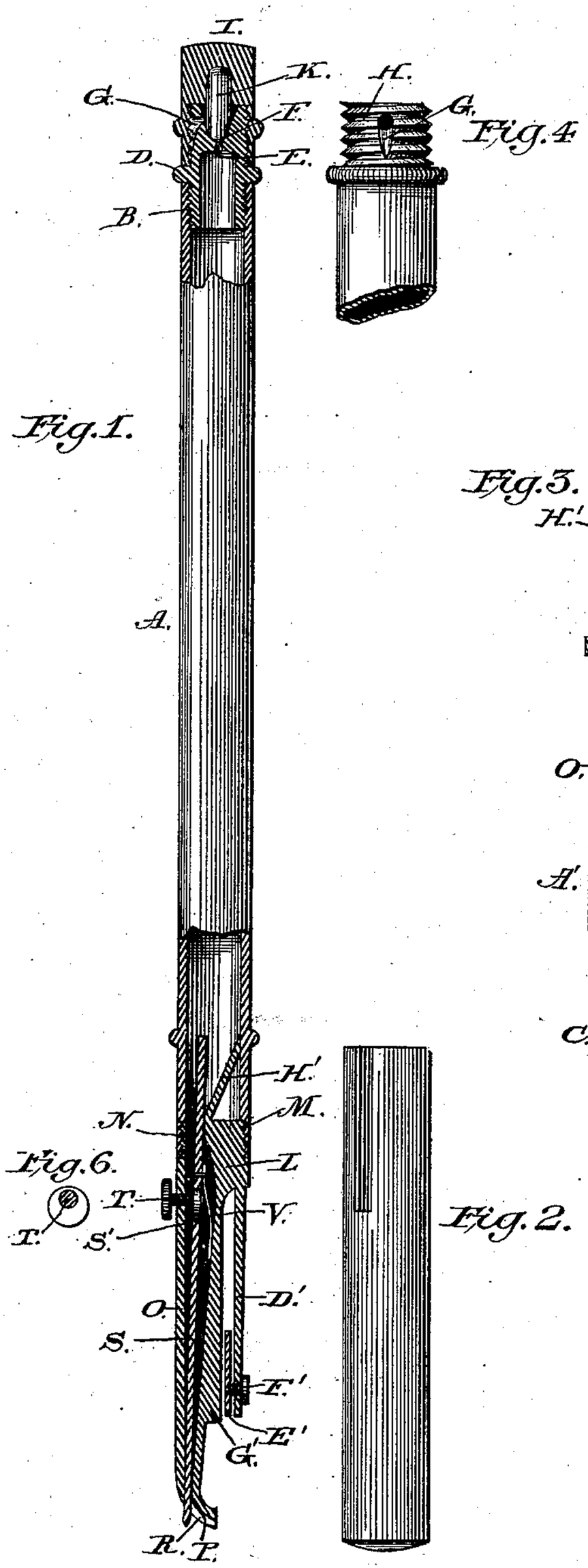

Fig. 1.

Fig. 4

Fig. 3.

Fig. 5.

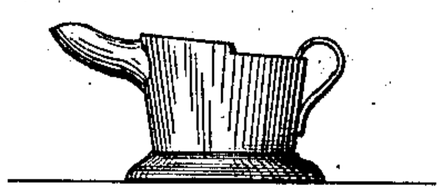

Fig. 6.

Fig. 2.

WITNESSES

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FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 227,894, dated May 25, 1880.

Application filed March 2, 1880. (Model.)

To all whom it may concern:

Be it known that I, WILL B. GREENE, a citizen of the United States, residing at Marietta, in the county of Washington and State of Ohio, have invented certain new and useful Improvements in Fountain-Pens; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain improvements in fountain-pens; and it has for its objects to provide a holder for a pen which is adapted to carry a given quantity of ink or writing-fluid, and from which such fluid or ink may be supplied to a pen suitably secured to the pen-holder in proper quantities to supply the said pen, of whatever description it may be, and also to utilize the whole amount of ink or fluid to the last drop, as more fully hereinafter specified. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a view of the entire device with parts broken away to show the internal mechanism of the same. Fig. 2 represents a shield to be applied over the end carrying the pen to protect the same. Fig. 3 represents a sectional view of a modification of my improved device. Fig. 4 indicates a detached view of the upper part of the holder with the cap and valve removed; Fig. 5, an elevation of a device for filling the pen-holder, and Fig. 6 a detached view of the operating-cam shown in Fig. 1.

The letter A indicates a hollow tube, of metal or other material, of the usual diameter and length of an ordinary pen-holder. The upper end of said tube is internally screw-threaded, as shown at B, into which is adapted to fit a hollow screw-threaded cap, D, provided with a fine aperture, E, and a conical valve-seat, F, and with a lateral aperture, G, leading from the outside to said valve-seat. The said cap is externally screw-threaded at H, and over it is adapted to fit another internally screw-threaded cap, I, which is provided with a conical valve, K, adapted to open or close the aperture E, as may be desired, by turning the cap I in the proper direction for the admission in or exclusion of air to or from the tube to regulate the flow of ink to the pen.

The letter L indicates a detachable section provided with an external screw-thread, M, at its upper end, which is adapted to fit in the lower end of the tube composing the pen-holder, which is internally screw-threaded, as shown at N, for the purpose. The said section L has a hollow extension, O, which is downwardly curved at its extremity, and provided with an aperture, P, and external groove R, the said curved end being adapted to bear against the back of the pen and conduct the ink from the holder to the pen.

The letter S indicates a bar extending longitudinally through the extension O, the lower end of said bar being tapered and extending through the aperture P, so as to form a variable opening in connection with the conical end of said bar as it is moved longitudinally back and forth, and thus provide for a greater or less supply of ink to the pen. Provision is made for the longitudinal movement of the bar by means of a circular opening, S′, in which sets a cam secured to the end of a pin, T, passing through the extension O, as shown in Fig. 1, a binding-spring, V, being attached to the bar and bearing against the lower inner side of the extension to hold the bar in any position to which it may be shifted.

The same object is effected in the modification shown in Fig. 3, in which the bar S is secured to a slide, A′, embracing the extension O, the bar extending through openings B′ and C′ at the curved end of the extension, and operating in the same manner as the conical end of the bar in the modification shown in Fig. 1.

The section N is provided with a solid extension, D′, projecting under the extension O, and provided with an adjustable clamp, E′, operated by a set-screw, F′, and adapted to clamp and hold a pen of any description against a fluted bearing, G′, extending between the extensions O and D′.

The letter H′ indicates an inclined partition secured to the section L, and adapted to form

a V-shaped conduit leading from the ink-receptacle in the handle to the hollow extension O, so as to conduct the last drop of ink or fluid into and through the extension O.

The operation of my invention will be fully understood in connection with the above description without further explanation.

What I claim, and desire to secure by Letters Patent, is—

1. In combination with the extension O, having valve-opening P and conducting-groove R, the valve-rod S, cam V, and operating button and shaft T, all arranged to operate substantially as specified.

2. In combination with the extensions D′ and G′, the clamp E′ and screw F′, whereby a pen of any size or description may be clamped in place, substantially as specified.

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

WILL B. GREENE.

Witnesses:

A. G. HEYLMUN,

J. H. CLARK.