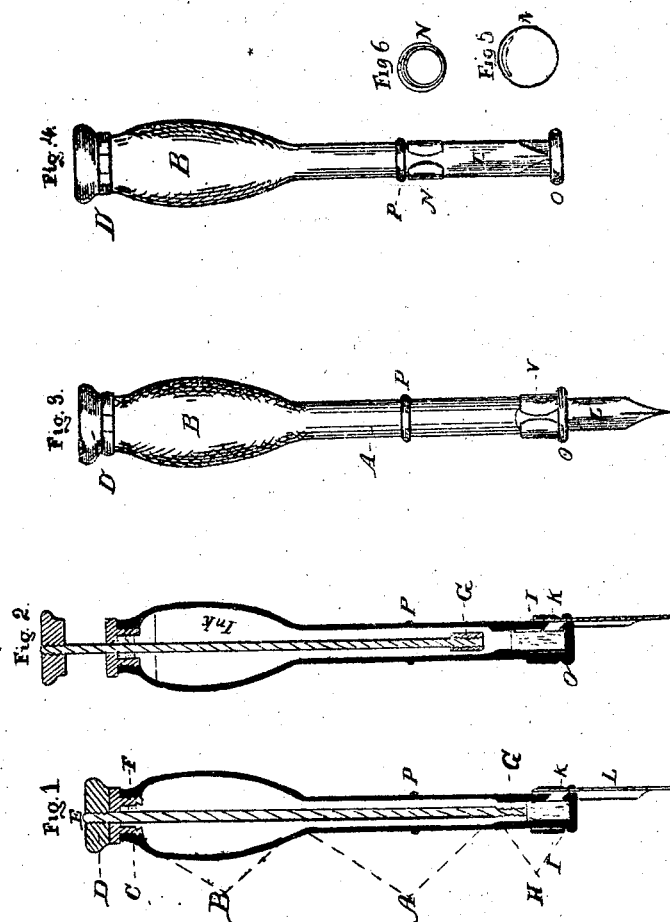


W. Hunt, Fountain Pen.

Patented Jan 13/1847

No 4927



UNITED STATES PATENT OFFICE.

WALTER HUNT, OF NEW YORK, N. Y.

FOUNTAIN-PEN.

Specification of Letters Patent No. 4,927, dated January 13, 1847.

To all whom it may concern:

Be it known that I, WALTER HUNT, of the city, county, and State of New York, have made a new and useful Improvement in a Fountain-Pen, and that the following is a full and accurate description of the same.

The objects aimed at by me in the construction of said pen, is the combination of all in one of inkstand, pen, shaft, and pen holder, so arranged as to be convenient for the pocket, and adapted to the common steel pen, to be changed at pleasure, to be supplied from the combined fountain or from the common inkstand. Its construction is as follows. See the longitudinal cut section Figure 1 in the annexed drawings—A, is the shaft, which is a small tube about $2\frac{1}{2}$ inches long and $\frac{1}{8}$ inch in diameter. B, the fountain or reservoir for the ink, which is a bulb or an enlarged tube forming the upper portion of said shaft, say $1\frac{1}{2}$ inch long and $\frac{1}{8}$ inch in diameter, more or less. C is the stuffing box fitted into the top of said reservoir by a screw joint. D, is a nut screwed upon the upper end of said small wire piston-rod E, which passes through the packing F, made of india-rubber fitted into the stuffing-box aforesaid. Upon the bottom end of said piston-rod, on which a screw is cut, is fitted a plunger G, made also of india rubber punched out for the purpose: (Leather saturated with india rubber paste, answers the purpose well.) The caliber of the bottom end of the shaft A, is lessened for about $\frac{5}{8}$ of an inch in length, say to about $\frac{3}{16}$ in diameter, and forms what I term "The filling tube" H, into which tube, the plunger G, is fitted as shown in Fig. 1. In the bottom end of said filling tube, is inserted a sponge or spongy stopper I, say $\frac{3}{8}$ of an inch long, and from one side of said tube; at the extreme bottom end, is a small downward inclined opening K, from the sponge, to the hollow of the pen L, which pen is inserted, (through a crescent shape opening M, in the bead, or band which surrounds the extreme bottom end of the shaft, an end view of which is given in Fig. 5,) into the penholder N. See Figs. 3 and 4 and a separate end view the same, in Fig. 6.

In Figs. 1, 2 and 3, the pen holder and pen is slid down in the position for filling and writing. In Fig. 4 the holder is drawn back against the stop P, and the point of the pen is placed underneath, and shielded by, the band O, before mentioned, as it is carried in the pocket.

The manner of filling and using, is as follows: when the pen is to be filled, the plunger is drawn back by the thumb and finger, hold of the nut D, which allows the ink to fall from the reservoir B, into the filling tube H. The plunger is then suddenly returned, which forces the ink in said tube into the barrel of the pen, through the aperture K, said plunger forming a perfect stopper in said tube which prevents the escape of the ink until another supply for the pen is required.

Felting, or woolen cloth, will probably answer in the room of sponge, for the purpose of the stopper, as its office is to check the flow of the ink through the aperture K, except under the pressure of the piston as before stated. I have given a fair trial to a fountain pen on this plan, and have found it to work well, and free from the difficulties that have rendered all other plans that have come to my knowledge, utterly useless. It is well adapted to the steel pens now in common use. It never dries up, nor leaks, and is certain to throw out the requisite quantity of ink, as long as there is a pen-full in the fountain. The capacity of the filling-tube being made to hold a due quantity, no more can be injected into the pen at one action of the piston.

What I claim, as my own invention and desire to secure by Letters Patent of the United States, in the above described "fountain pen," is—

The filling tube of a graduated capacity for filling the pen, combined with the fountain pen, as above set forth and specified, or arranged in any manner which is substantially the same.

New York Sept. 12th 1845.

WALTER HUNT.

Witnesses:

T. JAMES GLOVER,
JNO. R. CHAPIN.