

T. PRIOUX.
Fountain-Pen.

No. 213,689.

Patented Mar. 25, 1879.

Fig. 1.

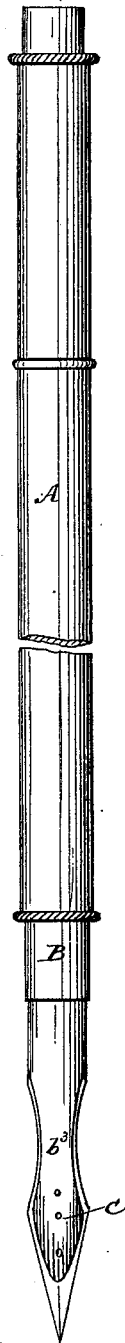


Fig. 2.

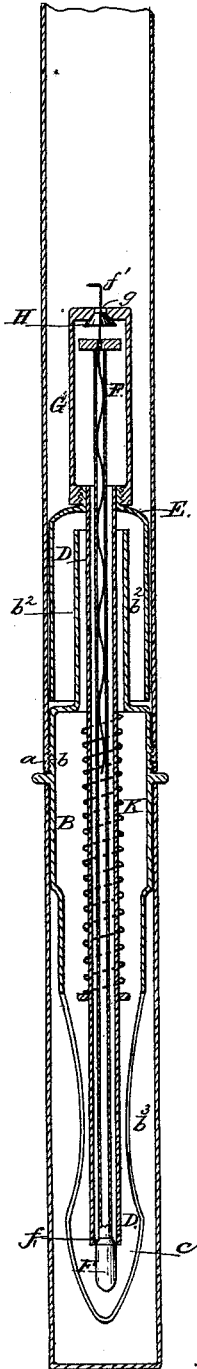


Fig. 3.

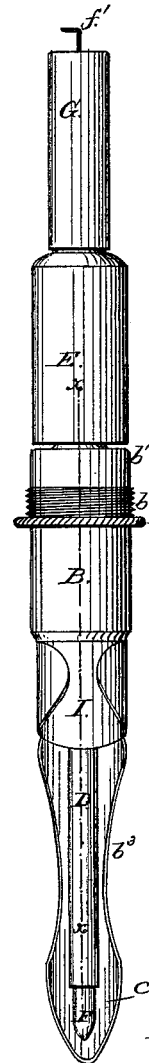
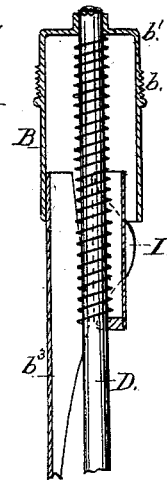


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

THÉOPHILE PRIOUX, OF PARIS, FRANCE.

IMPROVEMENT IN FOUNTAIN-PENS.

Specification forming part of Letters Patent No. **213,689**, dated March 25, 1879; application filed July 6, 1878; patented in France, May 25, 1878.

To all whom it may concern:

Be it known that I, THÉOPHILE PRIOUX, of the city of Paris, in the Republic of France, have invented certain Improvements in Self-Inking Pens, of which the following is a specification:

The object of this invention is to provide a pen having an ink-reservoir in the handle with means for automatically supplying the ink to said pen in proper quantities as it becomes exhausted.

In the drawings, Figure 1 represents an elevation of the pen and holder; Fig. 2, an enlarged sectional view of the same; and Fig. 3 shows a detached view of the lower section of the pen. Fig. 4 is a partial section on line *x*, Fig. 3.

The letter A represents the handle of the pen, consisting of a tube of proper diameter and length, open at the lower end and closed at the top. The letter B represents the section which carries the pen and the operative parts for supplying the ink to said pen. The said section is provided with a male screw, *b*, which engages a female screw, *a*, in the opening at the lower end of the handle. Said lower section consists of a tube, *b*¹, of such diameter as to fit within the handle of the pen, having a tubular extension, *b*², of less diameter, which extends up into the handle when the section B is in place. The lower end of said section B has at its lower end a spoon-like extension, *b*³, terminating in the bowl of the pen when it is in place.

The letter D represents a tube extending from the bowl of the extension C upwardly and entirely through the section B, terminating a short distance above its upper end, and is provided at said end with a bell, E, which sets over the narrowed portion of said section B, and extends nearly to the enlarged portion of the same. Through said tube D extends a smaller tube, F, the lower end of which is secured in the bowl of the extension C, the upper end terminating in a short cylinder, G, secured to the upper end of the tube D, above the bell E. The lower end of the tube F is enlarged and formed with a beveled shoulder, *f*, which forms a valve-seat for the lower end of the tube D. In the tube F is located a wire, *f*¹, projecting from its upper end, and

extending through an aperture, *g*, in the cylinder G, and bent at the end to prevent it from being drawn inwardly through said aperture. The aperture is formed on the inside with a conical seat for a conical valve, H, secured to the wire *f*¹, which closes said aperture when the operative parts of the pen are in a normal position. The letter I represents the pen-clasp for holding the pen secured to the tube D. Surrounding said tube D is a spiral spring, K, bearing against the shoulder of the section B at its upper end and against a collar on the tube D at its lower end, and serving to keep the tube D in a normal position.

The operation of my improved pen is as follows: The handle is first properly charged with ink and the lower section inserted, the bell acting as a stopper to prevent leakage of the ink. Upon pressing upon the point of the pen the tube D is elevated, opening the valve H, and permitting the ink to descend into the cylinder G. From thence the ink flows down through the tube D and out at its lower end into the bowl of the extension C, the lower end of said tube D being elevated from its seat on the enlarged lower end of the tube F. Upon relieving the pen of its pressure the parts assume a normal position and close the valves, stopping the flow of the ink.

What I claim is—

In combination with the handle of the pen, the lower section thereof, and the spoon-like extension, a hollow tube extending through said extension, and provided with a cylinder at its upper end having an opening at its top, and the tube extending from the bowl of the spoon-like extension through the aforementioned tube, and provided with a valve-seat at its lower end and with a wire carrying a valve at its upper end, adapted to open and close the aperture in the cylinder, and the spiral spring surrounding the outer tube, whereby the parts are kept in a normal position, substantially as and for the purposes specified.

T. PRIOUX.

Witnesses:

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