

(No Model.)

F. A. ROBINSON & A. I. SMITH.

FOUNTAIN PEN.

No. 387,450.

Patented Aug. 7, 1888.

Fig. 2.

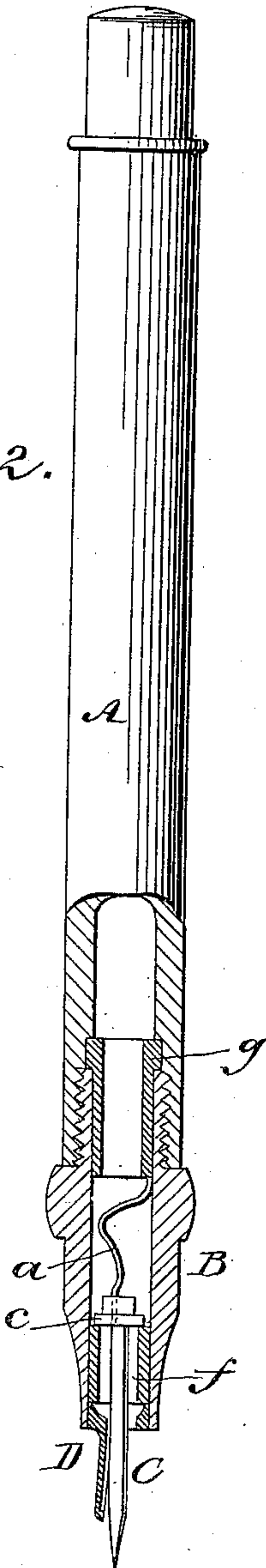
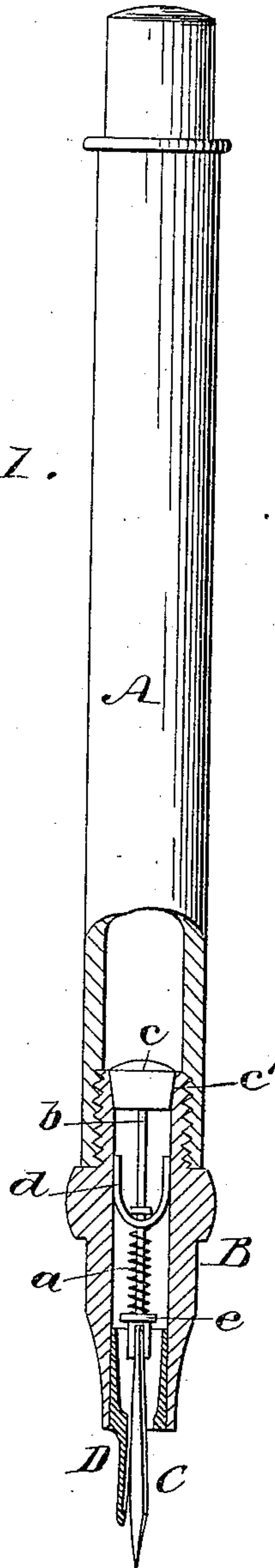


Fig. 1.



WITNESSES:

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FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 387,450, dated August 7, 1888

Application filed September 29, 1887. Serial No. 251,031. (No model.)

To all whom it may concern:

Be it known that we, FRED A. ROBINSON and AMY I. SMITH, of the city, county, and State of New York, have invented a new and Improved Fountain-Pen, of which the following is a full, clear, and exact description.

Our invention relates to that class of fountain-pens which employ a nib-pen; and the invention consists, principally, in such construction of the pen that it is adapted to have a longitudinal movement which is utilized for feeding the ink to the pen.

The invention will be hereinafter more specifically described, and set forth in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a broken sectional elevation of a fountain-pen constructed in accordance with our invention, and Fig. 2 is a similar view showing a modification.

The holder B is provided with a hollow handle, A, forming an ink-reservoir. In the holder B is held the feeder D, which may be of any approved construction. The pen C, which is of the nib form, is held loosely in the holder B and is acted upon by a spring, *a*, so that by pressure upon the point the pen may be moved slightly in the line of its length against the pressure of the spring.

In the form of pen shown in Fig. 1 the pen is attached to, or has attached to it, the small rod *b*, on which the spring *a* is coiled. To the top of this rod *b* is secured the valve *c*, which fits in a valve-seat, *c'*, at the top of the tip B

and shuts off the supply of ink from the pen when there is no pressure upon the point of the pen. The rod *b* is held in place by a loop or cross-piece, *d*, through which it passes, and the spring *a* on the rod acts between this cross-piece and the collar *e*, held at or near the top of the pen.

In the form of pen shown in Fig. 2 the valve *c* is attached at or near the top of the pen very low in the tip, and a small ring, *f*, on the tip forms the seat for the valve, and in this form of pen the spring *a* is a bent plate-spring secured to or formed as a part of the pen, and it is held to exert a pressure upon the pen by a ring, *g*, fitted at the top of the tip B.

The location of the valve is not essential, as it may be otherwise arranged than as shown without departing from the spirit of our invention.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. The holder B and handle A, and the feeder D, fitted in the holder, the nib-pen C, having rod *b* and valve *c*, in combination with the cross-piece *d* and spring *a*, the rod *b* free to move longitudinally by pressure upon the point of the pen, substantially as described.

2. The nib-pen C, formed integral with a valve, *c*, and spring *a*, substantially as and for the purpose set forth.

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Witnesses:

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