

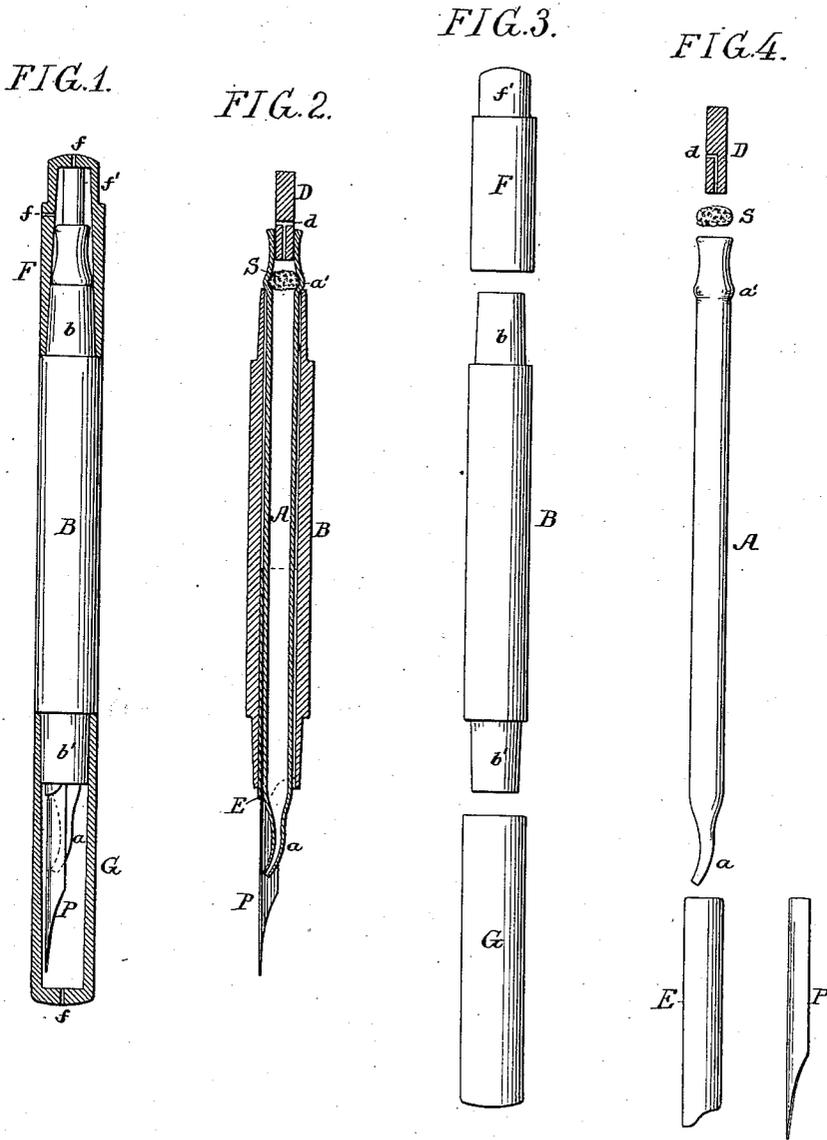
(No Model.)

A. B. DAVIS.

FOUNTAIN PEN.

No. 351,582.

Patented Oct. 26, 1886.



Witnesses:  
Alex. Barkoff  
William D. Conner

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# UNITED STATES PATENT OFFICE.

ALFRED B. DAVIS, OF PHILADELPHIA, PENNSYLVANIA.

## FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 351,582, dated October 26, 1886.

Application filed July 8, 1886. Serial No. 207,352. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED B. DAVIS, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain  
5 Improvements in Fountain-Pens, of which the following is a specification.

The object of my invention is to construct a simple, cheap, convenient, and easily manipulated fountain-pen, and this object I attain in  
10 the manner which I will now proceed to describe.

In the accompanying drawings, Figure 1 is a view of my improved fountain-pen closed for being carried in the pocket, showing the  
15 caps at the opposite ends in section. Fig. 2 is a longitudinal section of the pen, with the caps at the opposite ends removed ready for filling the reservoir. Fig. 3 is an outside view of the three parts of the casing or holder detached; and Fig. 4 is a view of the reservoir  
20 and its parts, pen and socket all detached from each other.

For economy and ease of manufacture, I make the ink-reservoir A, Figs. 2 and 4, of  
25 glass, with an opening at its upper end for the reception of the stopper or cork D, and a curved tapering nozzle, *a*, at its lower end for the supply of ink to the pen. I prefer to make the holder for the pen of a socket, E, which simply  
30 slips over and binds on the body of the reservoir A, as shown in Fig. 2, so that the pen P can be simply inserted between the glass reservoir A and the socket E, with the curved nozzle *a* in contact with the concave  
35 side of the pen. The reservoir and the parts attached to it are then passed through the tubular case or holder B, so that the pen and nozzle of the ink-reservoir will project through one  
40 end of the holder, while the top of the reservoir and its cap will project at the other end; and in order to insure the retention of the reservoir and pen in proper position in the case B, I form on the upper part of the reservoir an enlargement, *a'*, which abuts against the  
45 end of the case B when the reservoir is inserted therein, as shown in Fig. 2. The body of the reservoir is thus inclosed and protected by the tubular holder. The opposite ends, *b b'*, of the case or holder B are reduced in diameter on  
50 the outside for the reception of the caps F and

G, each provided with small openings *f* in the sides or ends, for a purpose described hereinafter. The top of the cap F, which fits over the end of the case B to cover the stopper end of the reservoir, has also a reduced portion, *f'*,  
55 onto which the cap G, after removal from the pen end of the instrument, may be applied while the pen is in use.

The stopper D, for the upper end of the ink-reservoir, I prefer to make of rubber or other  
60 suitable material, and I provide it with a T-shaped or inclined opening, *d*, by means of which, when the cork is partially pulled out, as shown in Fig. 2, air may have access to the  
65 upper part of the ink-reservoir to let the ink run freely onto the pen through the nozzle at the lower end.

I prefer to so proportion the cap F and the length of the stopper D that when the cap F is pressed down to its seat the cork D will be  
70 pressed onto the top of the reservoir so far as to close the opening *d*, and so prevent flow of ink from the reservoir A through the nozzle, if the latter should be carried in the pocket in a wrong position.

When the pen is in use, the cap F should first be removed, the cork pulled out sufficiently to allow of access of air to the interior of the reservoir and the cap then replaced, but not  
75 pushed down to its seat. The openings *f* in the caps F and G, when the pen is in use, will allow of access of air to the space around the stopper, and thence through the latter to the interior of the reservoir.

With the described construction of pen the  
85 reservoir can be filled without the use of the usual filling devices, which have generally to be used with fountain or stylographic pens, for when the stopper D is partially or entirely pulled out the pen can be filled by simply dipping  
90 the pen and nozzle end of the reservoir into an ink well or bottle, and the ink sucked up into the reservoir by the mouth of the user.

In order to prevent the ink from being sucked up into the mouth, and also in order  
95 to prevent the too rapid flow of ink from the nozzle end of the reservoir when in use, I introduce into the upper end of the reservoir, immediately below the stopper D, a piece of sponge or other porous material, S, and I take  
100

advantage of the enlargement *a'* of the reservoir to afford a lodgment for this sponge or other porous material.

The case or holder B and its caps I prefer to form of rubber, metal, celluloid, or other suitable material, so as to afford a neat and light holder, which will at the same time prevent the glass reservoir from being broken by accidental falls.

10 I claim as my invention—

1. A fountain-pen having a holder, and a glass reservoir inclosed in the holder, but detachable therefrom, substantially as set forth.

15 2. A fountain-pen comprising a holder and an ink-reservoir carrying the pen, the reservoir being inclosed within the holder, but detachable therefrom, substantially as set forth.

20 3. The combination of the holder and its inclosing-caps for the opposite ends with a detachable reservoir inclosed within the holder, but having at its upper end an enlargement, *a'*, as and for the purpose specified.

4. The combination of the holder, cap F, and ink-reservoir with a stopper, D, for the reservoir, and having an opening, *d*, adapted to be closed when the stopper is pushed inward. 25

5. A fountain-pen having an ink-reservoir provided with a stopper, and a piece of sponge or other porous material at its upper end. 30

6. A fountain-pen having an ink-reservoir provided with an enlargement, *a'*, containing a piece of sponge or other porous material near its upper end, substantially as and for the purpose set forth. 35

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED B. DAVIS.

Witnesses:

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HARRY SMITH.