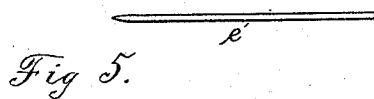
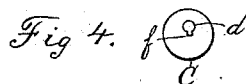
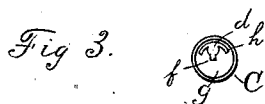
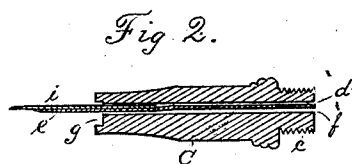
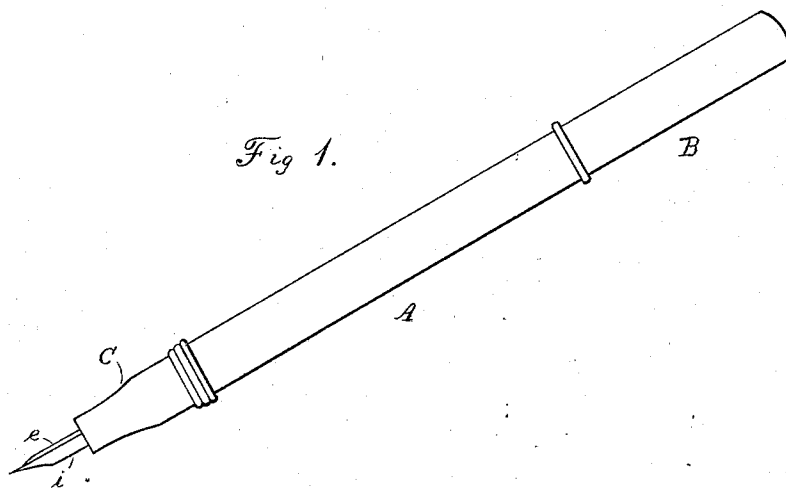


(No Model.)

J. BLAIR.
FOUNTAIN PEN,

No. 509,862.

Patented Dec. 5, 1893.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN BLAIR, OF BROOKLYN, NEW YORK.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 509,862, dated December 5, 1893.

Application filed March 22, 1893. Serial No. 467,117. (No model.)

To all whom it may concern:

Be it known that I, JOHN BLAIR, a subject of the Queen of Great Britain, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Fountain-Pens; and I do 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 the letters of reference marked thereon, which form a part of this specification.

My invention relates to fountain pens having adjustable feed bars and accommodating pen nibs of the ordinary shape. Its distinguishing features are a nearly solid point-section having a longitudinal round opening for the feed bar, an ink duct parallel to and connected with it, an overflow ink chamber and a pen seat, all so constructed that the bar may be instantly changed from an over to an under feed bar.

In the drawings Figure 1 is a side elevation of my fountain pen showing the feed bar on top of the nib. Fig. 2 is a vertical section of the point section or nozzle showing the feed bar underneath the nib. Fig. 3 is a front view of the nozzle. Fig. 4 is a rear view of the same and Fig. 5 is a plan of the feed bar.

The letters of reference used denote corresponding parts in the different views.

The letter A. indicates the body or reservoir of a fountain pen.

B. is the pen cap.

C. is the nozzle or point-section attachable by its threaded portion *c.* to the reservoir A. The nozzle C. is first made solid. Then a hole *d.* is bored through it lengthwise near one side large enough to admit, removably, a feed-bar *e.* Along the side of the bore *d.* near the center of the nozzle is formed a groove or air inlet *f.*, which also extends lengthwise through the nozzle. A circular cup or recess *g.* at the vent of the nozzle serves as a receptacle for any excess of ink coming through the duct, and a deeper curved recess *h.* extending through and upon each side of the opening *d.* forms a seat for the nib *i.* The ink is conveyed along the feed bar *e.* from the reservoir to the nib *i.* and along between

the bar and the nib to the point of the latter. The space in the reservoir vacated by the ink is filled by the air which enters through the inlet *f.*

The feed-bar *e.* is made nearly straight and is slender and flexible; and owing to the circular form of the hole *d.* and the relative position of the pen seat *h.* rests equally well upon the upper or under side of the nib, and can be readily moved back and forth to suit the convenience of the writer in affecting the flexibility of the nib and regulating the flow of ink.

As usually made the threaded end of the point-section is liable to be broken off in the attempt to unscrew it from the barrel to which it closely adheres when certain kinds of ink are used. This difficulty is obviated by the compact structure of my point-section. Its simplicity also insures cheapness in its manufacture.

Hard rubber is preferably used in making this device but other materials may be employed if desired.

What I claim is—

1. A fountain pen provided with a solid point section having a small bore extending lengthwise through it just above the center, an air groove cut through its center and opening into said bore, a curved seat for the nib cut into its front end across the bore an ink cup in its front end, and a flexible feed bar extending through the bore and adapted to be placed above or below the pen nib as herein described.

2. A fountain pen consisting of a reservoir body A, cap B, point-section C, attachable to the body A, having a small bore extending lengthwise through it just above the center, an air inlet *f.*, cut through its center and opening into said bore, a curved pen seat *h.*, an ink cup *g.*, and a flexible feed bar *e.*, extending through the said bore and adapted to be placed above or below the pen nib *i.*, as herein set forth.

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

JOHN BLAIR.

Witnesses:

B. F. SMITH,
P. C. SCHMIDT.