

No. 823,328.

PATENTED JUNE 12, 1906.

A. HALL.
FOUNTAIN PEN.

APPLICATION FILED AUG. 18, 1905.

Fig 1.

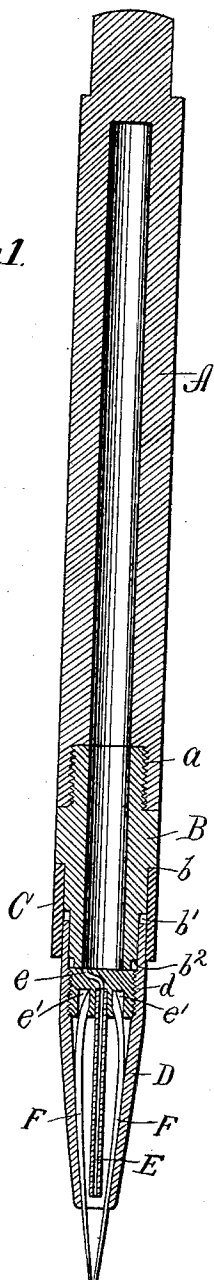


Fig 2.

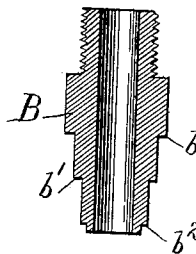
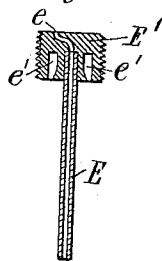


Fig 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALFRED HALL, OF CHICAGO, ILLINOIS.

FOUNTAIN-PEN.

No. 823,328.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALFRED HALL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fountain-Pens, of which the following, taken in connection with the drawings, is a specification.

My invention has for its object the production of a fountain drawing or ruling pen adapted to be used by draftsmen and one in which an even flow of ink is fed to the pen and which may be easily and readily adjusted to produce heavy or light lines, as desired.

In the accompanying drawings, forming part of this specification, and in which like letters of reference indicate corresponding parts, I have illustrated one form of device embodying the essential features of my invention, although the same may be carried into effect in other ways without in the least departing from the spirit thereof, and in these drawings—

Figure 1 is a central vertical section through the pen. Figs. 2 and 3 are details of the inner parts thereof.

In carrying out my invention, A represents the ink-barrel of the pen, having screw-threads *a* upon the inner periphery near one end thereof. A cylindrical extension B, screw-threaded at the top thereof, is attached to the barrel of the pen, as shown. This cylindrical extension is provided with circumferential shoulders *b b' b''* of different diameters, each of which serves a purpose hereinafter described.

A collar C surrounds the cylindrical extension B and is held thereon by friction. When said collar is in position, the top edge thereof abuts against the shoulder *b*.

An annular cone-shaped member D surrounds the lower portion of the extension B and is held by friction between said extension and the collar C. This cone-shaped member is adjustable vertically upon the extension C, being limited in its upward movement by the shoulders *b'*. Screw-threads *d* are provided upon the inner periphery of this cone-shaped member near the top thereof for a purpose hereinafter described.

A feeding-tube E, having a head E' screw-threaded upon the outer periphery thereof, is inserted into the cone-shaped member D and is held in position by the screw-threads *d*. An opening *e* is arranged in the head E', so

that when in position the opening is preferably adjacent to the inner wall of the ink-barrel A, as shown in Fig. 1. Recesses *e' e'* are provided in the head E'.

F F are the nibs of the pen, which are preferably bent at the upper ends thereof, as shown, and inserted into the recesses *e'* of the head E'. The outer faces of the nibs are contiguous with the inner periphery of the member D and are regulated thereby.

A heavy or light line may be drawn with this pen by raising or lowering the member D, the effect of which is either to press the nibs F F of the pen closer together or allow them to spread apart. The operation will be obvious. The ink is supplied from the barrel A, filling the extension B, from whence it flows into the aperture *e* and feeding-tube E into the nibs of the pen F F. To regulate the width of line to be drawn, the member D is pushed a short distance under the collar C, which operation will press the nibs of the pen closer together, giving a fine line, or if the member D is slightly lowered the pressure on the nibs of the pen is released and the distance between the points thereof is increased until the width of line desired is obtained.

The advantages of my invention will be apparent to those skilled in the art. My improvements are very simple in construction, comprise few parts, can be easily and cheaply manufactured and placed in position, and are effectual in all respects in the performance of their functions.

Slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting the scope, and hence I do not wish to limit myself to the precise details of construction herein shown; but I contemplate such changes as, for instance, instead of providing the extension B the barrel A might be provided with the annular shoulders *b b' b''* and the other parts adapted thereto, as shown. Instead of holding the member D in position by friction the same might be screw-threaded onto the extension or ink-barrel.

I claim—

1. In a fountain-pen, the combination of an ink-barrel, an annular member adjustably secured to said ink-barrel, pen-nibs adjustably secured inside of said annular member, and a feeding-tube inside of said nibs, substantially as described.

2. In a fountain-pen, the combination of an ink-barrel with a conical-shaped member

secured to the lower portion thereof, the nibs of a pen supported inside of said conical-shaped member, and an ink-feeding tube inside of said nibs, substantially as described.

5 3. In a fountain-pen, the combination of an ink-barrel, a tubular extension secured to said ink-barrel, an annular member, a collar adapted to hold said extension and annular member in frictional contact, pen-nibs adjustably secured in said annular member and a
10 feeding-tube inside of said nibs, substantially as described.

4. In a fountain-pen, the combination of an ink-barrel, an annular member adjustably
15 secured to said ink-barrel, a feeding-tube inside of said annular member, said feeding-tube having recesses in the head thereof, the upper ends of the nibs of a pen extending into said recesses, and means for laterally adjusting said pen-nibs, substantially as described.
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5. In a fountain-pen, the combination of an ink-barrel, an extension removably secured to said ink-barrel, an annular member removably secured to said extension, a tubular stem supported in said annular member, 25 said stem having recesses in the head thereof, the nibs of a pen disposed within said annular member, the upper ends of said nibs extending into the aforesaid recesses, and the lower ends thereof projecting through the 30 end of said annular member, substantially as described.

In testimony whereof I have hereunto signed the foregoing specification in the presence of two subscribing witnesses.

ALFRED HALL.

Witnesses:

J. M. WEBER,
JENNIE L. FISKE.