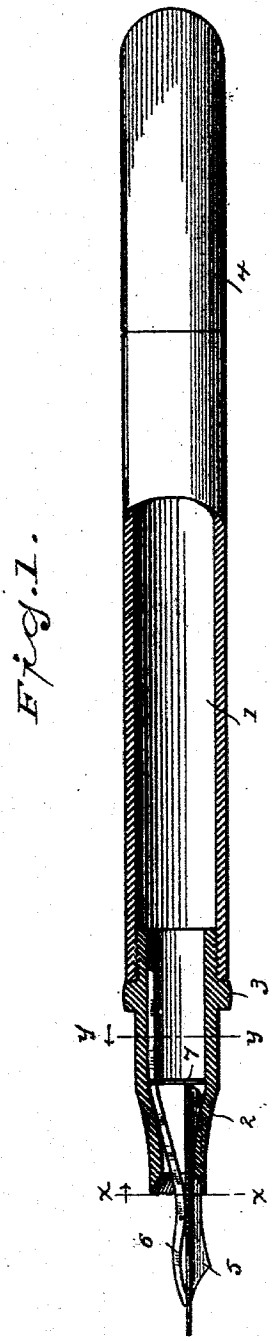
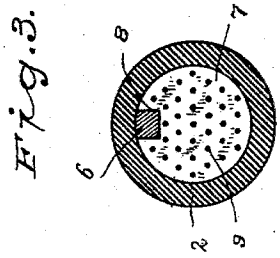
(No Model.)

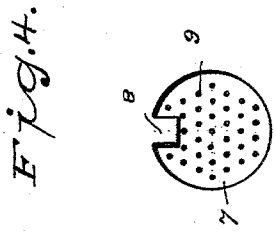
F. GILBERT.

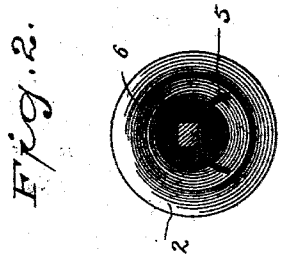
FOUNTAIN PEN.

No. 511,134. Patented Dec. 19, 1893.









WITNESSES

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FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 511,134, dated December 19, 1893.

Application filed April 20, 1893. Serial No. 471,180. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK GILBERT, a citizen of the United States, residing at Seymour, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Fountain-Pens; and I do hereby 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.

My invention has for its object to simplify and improve the construction of fountain pens so that they shall be durable, always ready to operate even after non-use for a long time, always safe so that there shall be no danger of ink escaping in use, in which the flow of ink under ordinary circumstances shall be perfectly free and unobstructed, and in which the cost of construction shall be reduced to the minimum, all superfluous parts and expensive details of construction being avoided so that pens embodying my novel invention may be produced at a price sufficiently low to place them within the reach of all; these being essential requirements in a perfect fountain pen and having never been found combined in any pen so far as I am aware.

With these ends in view I have devised the simple and novel construction which I will now describe referring by numbers to the accompanying drawings forming part of this specification, in which—

Figure 1 is a longitudinal section of a fountain pen illustrating my novel invention; Fig. 2 a section on an enlarged scale on the line $x\ x$ in Fig. 1 looking toward the right; Fig. 3 a section on an enlarged scale on the line $y\ y$ in Fig. 1 looking toward the left, and Fig. 4 is a perspective of my novel stop disk or plate detached.

1 denotes the barrel or ink reservoir, 2 the nozzle the inner end of which is externally screw threaded to engage a corresponding thread on the inner side of the barrel and is provided with a flange 3 against which the end of the barrel abuts when the parts are secured together.

4 denotes the usual cap which when the pen is in use may be slipped over the base of the barrel which is reduced to receive it. When the pen is not in use the cap is adapted to slip over the nozzle to prevent the possibility of ink escaping no matter in what position it may be placed or how long it may remain out of use.

5 denotes a gold pen of any suitable or preferred style which fits closely in the outer end of the nozzle.

6 denotes the feed bar which may be made of any suitable material preferably of hard rubber, and the exact shape or size of which is not of the essence of my invention, it being furthermore contemplated that the feed bar may be placed either under or over the pen so as to deliver ink on either the under side or upper side thereof as may be preferred.

7 denotes a disk or plate which is provided with a notch 8 to receive the feed bar and with a number of fine perforations 9. This disk is made very thin and light and may be made of any suitable non-corrosive material as for example hard rubber, vulcanized fiber or a non-corrosive metal. The disk acts to retain the ink in the barrel or reservoir so that it cannot escape in use but at the same time the perforations will allow sufficient air to enter the reservoir to permit the ink to flow along the feed bar to the pen without danger of blotting. The exact location of this disk in use is not of the essence of my invention although I preferably place it at the base of the pen as shown in the drawings.

I have illustrated the parts in position to produce a top feed but it will of course be apparent that the principle of operation of an under feed is precisely the same, the notch in the disk receiving the feed bar no matter what may be the relative position of the feed bar and the pen.

Having thus described my invention, I claim—

The combination with the nozzle and a feed bar, of a stop disk fitting within the nozzle and having a notch to receive the feed bar, and fine perforations which permit air to pass into the reservoir, but prevent the escape of ink.

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

FREDERICK GILBERT.

Witnesses:

WILBUR W. SMITH,

JENNIE W. SMITH.