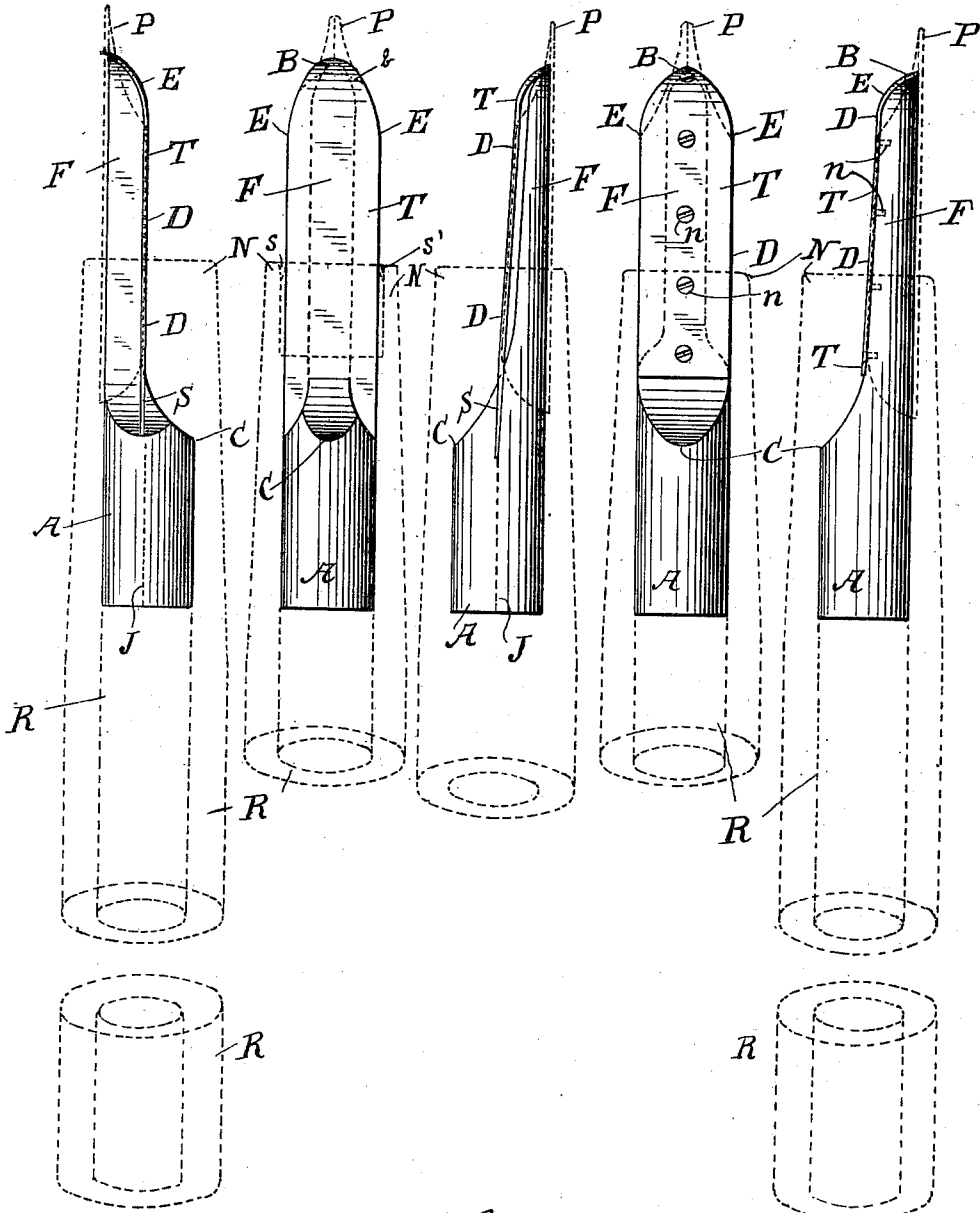


W. I. FERRIS.
FOUNTAIN PEN.

APPLICATION FILED JUNE 16, 1903.

NO MODEL.

Fig. 1. Fig. 2. Fig. 3. Fig. 4. Fig. 5.



Witnesses
 Edward J. Kestner
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UNITED STATES PATENT OFFICE.

WILLIAM I. FERRIS, OF STAMFORD, CONNECTICUT, ASSIGNOR TO L. E. WATERMAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 736,710, dated August 18, 1903.

Original application filed January 26, 1903, Serial No. 140,522. Divided and this application filed June 16, 1903. Serial No. 161,669. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM I. FERRIS, a citizen of the United States, residing in the city of Stamford, county of Fairfield, and State of Connecticut, have invented a certain new Improvement in Fountain-Pens, of which the following is a specification.

My invention relates to that part of a fountain-pen which is between the ink-reservoir and the nibs of the writing-pen, and particularly to the size, shape, and proportion of this part relative to the size and shape of the writing-pen.

The objects of my invention are to conceal from the view of the user and handler of fountain-pens the concave side of the writing-pen of fountain-pens and the ink and dirt which are accustomed to collect therein and also to prevent ink from flowing over or upon and thus soiling and discoloring those parts of fountain-pens between the reservoir and the nibs of the writing-pen which are visible to the eye when the parts of the pen are assembled ready for use.

The invention herein shown, described, and claimed is an embodiment of another means or construction for producing or attaining the same results set forth in my application filed January 26, 1903, Serial No 140,522, of which application this is a division.

The term "feed-piece" is used throughout this specification and in the claims to denote that part of a fountain-pen which conducts or regulates the flow of the ink from the reservoir to the nibs of the writing-pen and which is most commonly known or described as a "feed-piece," "ink-duct," "feed-bar," "feeder," "feed-plug," or "feeding device."

I attain the objects of my invention by the use of a piece separate and distinct from the feed-piece of a fountain-pen, such separate piece being secured to such feed-piece by any convenient means or secured with the feed-piece and writing-pen in the nozzle or holder by a frictional binding fit or partly in one way and partly in the other.

The construction of my device is illustrated in the accompanying drawings, in which—
Figures 1, 3, and 5 show a side view of a

feed-piece, hollow reservoir, nozzle, and writing-pen in connection with the separate piece or tongue. Fig. 2 shows the construction illustrated in Fig. 1 when viewed from the side opposite the writing-pen. Fig. 4 is a view of the construction shown in Fig. 5 when viewed from the side opposite the writing-pen.

Similar letters refer to similar parts throughout the several views.

The manner of the shape, form, and arrangement of the piece, separate and distinct from the feed-piece, used in conjunction with any feed-piece to accomplish the purposes of my invention is shown in the figures of the drawings. Figs. 1 and 2 show the construction of such a feed-piece F in connection with a separate piece or tongue T, which is secured in a slot or wedge-shaped groove S by being pressed or pushed securely therein to make a binding or frictional union. In Fig. 1 this separate piece or tongue T is shown as resting against the back of the feed-piece F. In Fig. 3 there is a space between the back of the feed-piece F and the tongue T. This separate piece or tongue T, as in Figs. 1 and 3, may be formed by the extension of that portion of the feed-piece which lies to the right of the dotted line J, Fig. 1, or that portion of the feed-piece to the left of the dotted line J, Fig. 3. When so formed, the tongue T, Fig. 1, would be integral with that portion of the feed-piece to the right of the dotted line J, and the tongue T, Fig. 3, would be integral with that portion of the feed-piece to the left of the dotted line J. Figs. 4 and 5 show the separate piece or tongue T secured to the back of the feed-piece F by small screws *n*, having countersunk heads. Fig. 2 shows the separate piece or tongue T wedged into small slots or grooves *s s'*, formed in the body or interior surface or walls of the nozzle N, and thus held in place by a binding or frictional fit, the tongue T extending a convenient distance into the nozzle, as shown by the dotted line *k*. When the parts are assembled, this separate piece or tongue may be a trifle shorter than the feed-piece, so that the extreme end of such feed-piece may be in

view without avoiding the purposes of my invention, as shown by the dotted line *b*, Fig. 2.

2. This separate piece and the feed-piece may be made of hard rubber, non-corrosive metal, or other suitable material. The separate piece is to be of such a shape, size, form, and proportion relative to the shape, size, and form of the writing-pen as to conceal from view (either by itself or in conjunction with the feed-piece) the concave side of the writing-pen, except a small portion at the extreme end of the nibs. To prevent the ink from crawling or flowing over onto the back side of this separate piece, discoloring and soiling it, sharp edges are formed along the sides contiguous or approximately contiguous to the sides or edges of the writing-pen, as at D.

My device is not a method of feeding ink to the nibs of the writing-pen or for controlling or regulating the flow of ink from the reservoir to the writing-pen, and the shape, size, and construction of the ink and air channels or the construction of the feeding, controlling, and regulating devices and sub-devices is immaterial. As my device forms no part of the ordinary feed mechanism, it is applicable to any pen which has a feeding device located under the writing-pen for conducting and regulating the flow of ink from the hollow handle or reservoir to the nibs of the writing-pen.

Having thus described my device, what I claim as my invention, and desire to secure by Letters Patent, is—

1. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece by which ink is conducted from the reservoir to the pen-nibs, and a separate piece of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at the extreme end of the nibs, substantially as shown and described.

2. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece by which ink is conducted from the reservoir to the pen-nibs, and a separate piece, such feed-piece and separate piece in conjunction being of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at the extreme end of the nibs, substantially as shown and described.

3. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece by which ink is conducted from the reservoir to the pen-nibs, and a separate piece having sharp edges on the side opposite the writing-pen along the line contiguous to the writing-pen, substantially as shown and described.

4. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece by which ink is conducted from

the reservoir to the pen-nibs, and a separate piece having sharp edges on the side opposite the writing-pen along the lines contiguous to the edges of the writing-pen, substantially as shown and described.

5. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece by which ink is conducted from the reservoir to the pen-nibs, and a separate piece having sharp edges on the side opposite the writing-pen along the line contiguous to the concave side of the writing-pen, substantially as shown and described.

6. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece by which ink is conducted from the reservoir to the pen-nibs, and a separate piece having sharp edges on the side opposite the writing-pen, substantially as shown and described.

7. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at or near the extreme end of the nibs, such separate piece having sharp edges on the side opposite the writing-pen along the line contiguous to the writing-pen, substantially as shown and described.

8. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at or near the extreme end of the nibs, such separate piece having sharp edges on the side opposite the writing-pen along the lines contiguous to the edges of the writing-pen, substantially as shown and described.

9. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at or near the extreme end of the nibs, such separate piece having sharp edges on the side opposite the writing-pen along the line contiguous to the concave side of the writing-pen, substantially as shown and described.

10. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small

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portion at or near the extreme end of the nibs, such separate piece having sharp edges on the side opposite the writing-pen, substantially as shown and described.

5 11. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece, such feed-piece and
10 separate piece in conjunction being of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at the extreme end of the
15 nibs, such separate piece having sharp edges on the side opposite the writing-pen along the line contiguous to the writing-pen, substantially as shown and described.

20 12. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece, such feed-piece and
25 separate piece in conjunction being of such size, shape and proportion relative to the size and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at the extreme end of
30 the nibs, such separate piece having sharp edges on the side opposite the writing-pen along the lines contiguous to the edges of the writing-pen, substantially as shown and described.

13. In a fountain-pen, the combination of a

hollow reservoir, an ordinary nib writing-pen, 35 a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece, such feed-piece and separate piece in conjunction being of such size, shape and proportion relative to the size 40 and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at the extreme end of the nibs, such separate piece having sharp edges on the side opposite the writing-pen 45 along the line contiguous to the concave side of the writing-pen, substantially as shown and described.

14. In a fountain-pen, the combination of a hollow reservoir, an ordinary nib writing-pen, 50 a feed-piece between the two by which ink is conducted from the reservoir to the pen-nibs, and a separate piece, such feed-piece and separate piece in conjunction being of such size, shape and proportion relative to the size 55 and shape of the writing-pen as to conceal from view the concave side of the writing-pen except a small portion at the extreme end of the nibs, such separate piece having sharp edges on the side opposite the writing-pen, 60 substantially as shown and described.

In witness whereof I have hereunto set my hand, in the presence of two subscribing witnesses, this 15th day of June, 1903.

WILLIAM I. FERRIS.

Witnesses:

F. D. WATERMAN,
EDWARD J. KASTNER.