

(No Model.)

J. H. SHIELDS.
FOUNTAIN PEN.

No. 287,060.

Patented Oct. 23, 1883.

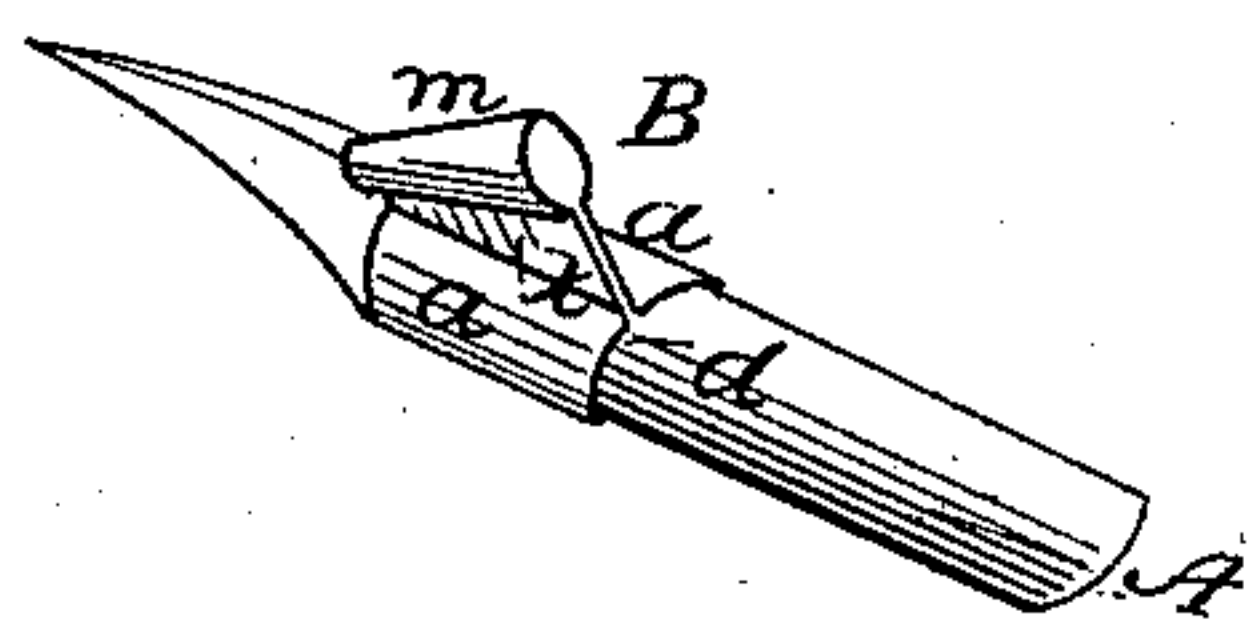


Fig. 1.

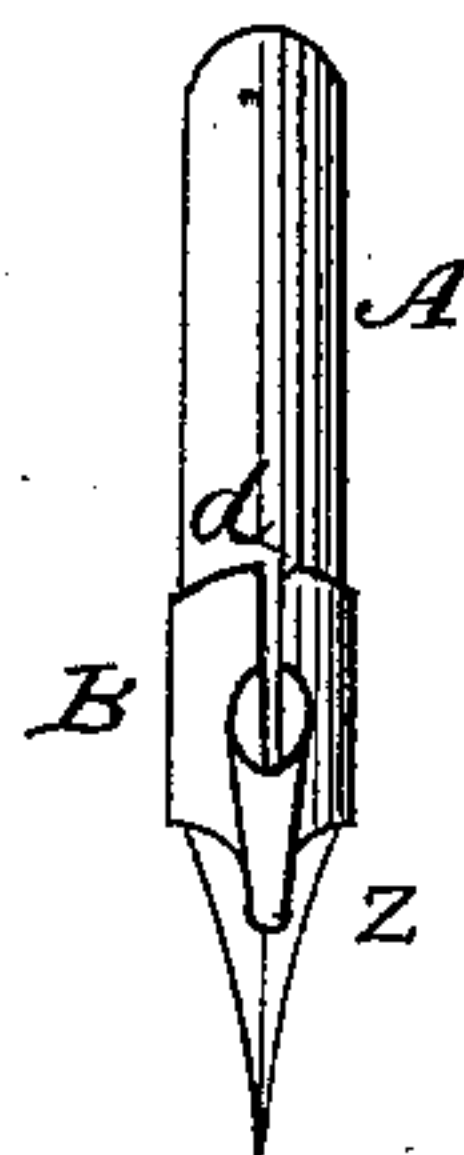


Fig. 2.

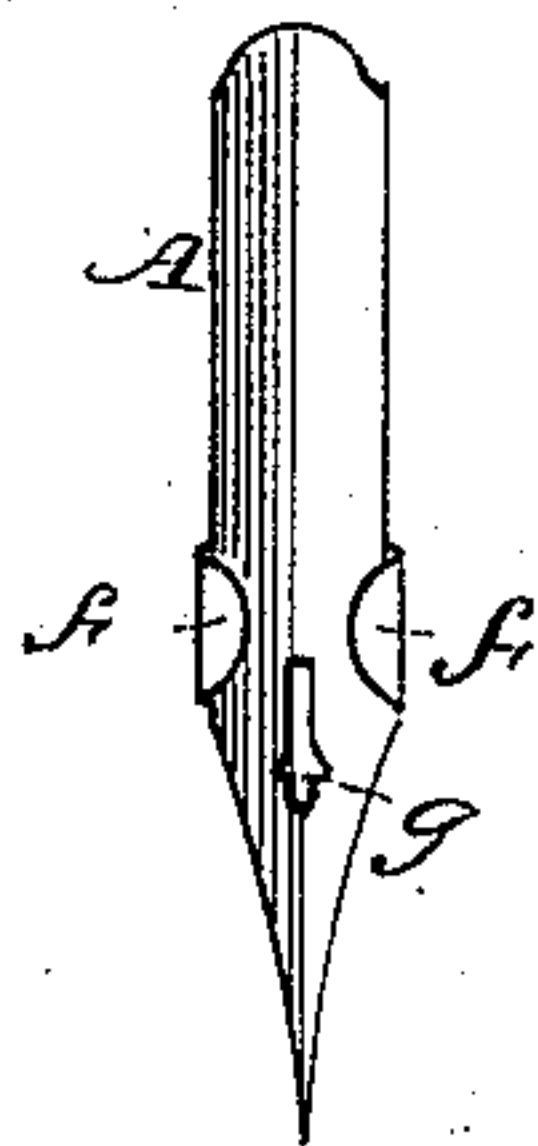


Fig. 3.

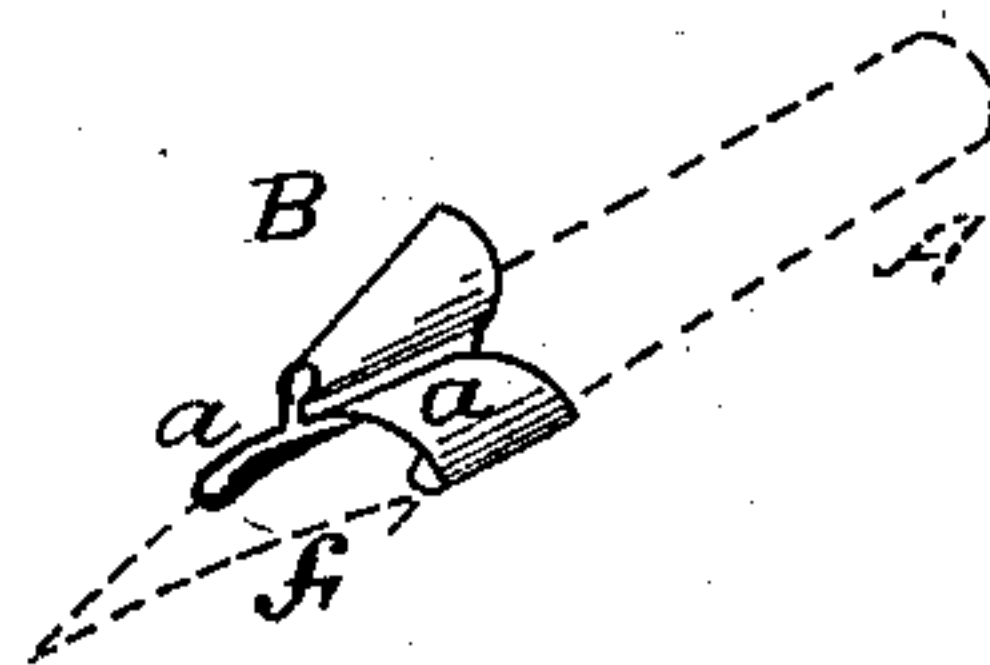


Fig. 4.

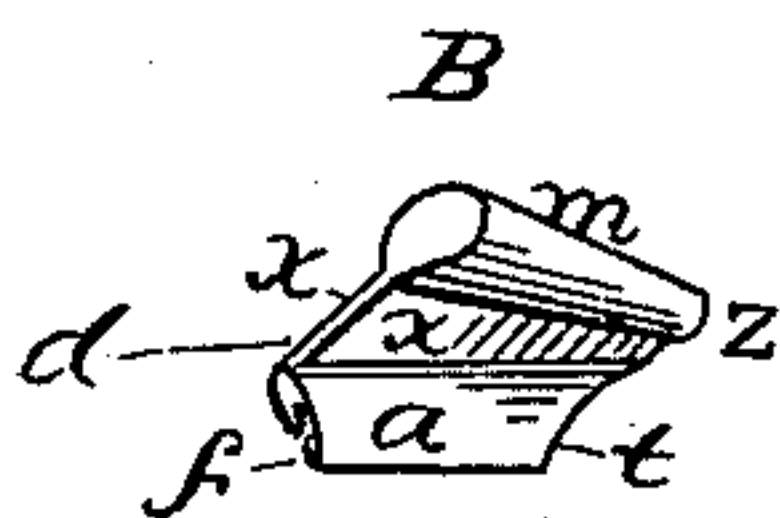


Fig. 5.

Witnesses:

H. E. Bruck

L. J. White

Inventor:

James H. Shields,

Per C. C. Shaw,
in Atty.

UNITED STATES PATENT OFFICE.

JAMES H. SHIELDS, OF BOSTON, MASSACHUSETTS.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 287,060, dated October 23, 1883.

Application filed March 5, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. SHIELDS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Writing-Pens, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view, showing a pen embodying my improvement; Fig. 2, a top plan view of the same; Fig. 3, a bottom plan view; Fig. 4, a perspective view of the fountain, and Fig. 5 a side elevation of the same.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to that class of writing-pens which are provided with a fountain or means for retaining an extra quantity of ink; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simpler, cheaper, and more effective device of this character is produced than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation, its extreme simplicity rendering an elaborate description unnecessary.

In the drawings, A represents the body of the pen, and B the attachment or fountain. The fountain is preferably composed of sheet metal bent or formed as best seen in Figs. 1, 2, and 5, its body *m* being round and flaring or trumpet-shaped and inclined to its base *a* at an angle of about thirty-five degrees, and split longitudinally on its under side. The split edges of the trumpet-shaped body are connected with the base-plates *a a* by means of the vertical sides *x x*, between which the ink passes from said body to the pen. The base-plates *a a* are curved and fit the pen on either side, being provided with inwardly-bent flanges at their lower ends, which serve to grasp the pen. The large end of the body

m is arranged uppermost, the small end being near the slot *g* when the fountain is attached to the pen, as shown in Figs. 1 and 2.

In the use of my improvement the fountain is slipped onto the pen, as shown in Fig. 2, the small end or discharge-orifice *z* being nearest its point, and arranged over the lower portion of the slot *g*. The pen is then dipped in the ordinary manner, filling the body *m* with ink, which will be gradually dealt out as the pen is used, the vertical sides *x x* being separated slightly by the spreading of the nibs of the pen under the pressure upon the paper.

I prefer to have the sides *x* nearly or quite touch each other, thereby reducing the space between them as much as possible, as the fountain retains the ink and serves it to the pen in a better manner than where the sides are separated to any considerable extent. The fountain is composed of a single piece of sheet metal, all its parts being integral, its sides and base being cut away or inclined from *z* to *t*, to permit the discharge-orifice to be brought close to the top of the body of the pen. The rear ends of the walls *x* and body *m* are also inclined at an angle of about forty-five degrees, as I have found that when so constructed the fountain retains the ink better than when these parts are made vertical.

Having thus explained my invention, what I claim is—

1. The combination, with a split-nibbed pen, of a fountain attachment consisting of the split trumpet-shaped body *m*, the vertical contiguous sides *x x*, extending downward from the split edges of said body, and the curved base-plates *a*, having inwardly-bent flanges *f f*, said fountain attachment being applied to the upper surface of the pen, with the small end of the trumpet toward the nibs, substantially as described.

2. A fountain attachment for pens, consisting of the split trumpet-shaped body *m*, curved base-plates *a a*, having flanges *f f*, and the vertical contiguous sides *x x*, connecting the split edges of said body with said base-plates, substantially as described.

JAMES H. SHIELDS.

Witnesses:

C. A. SHAW,
L. J. WHITE.