(No Model.)

J. F. HOTCHKISS.

FOUNTAIN FOR PENS.

No. 368,590. Patented Aug. 23, 1887.

Figure 1.

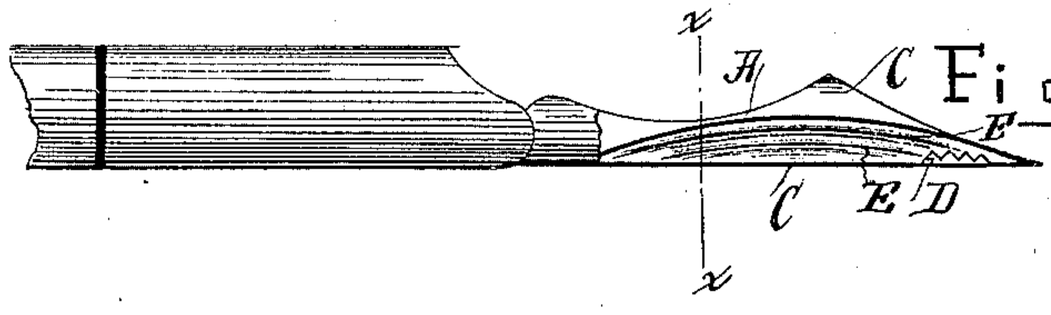

Figure 2.

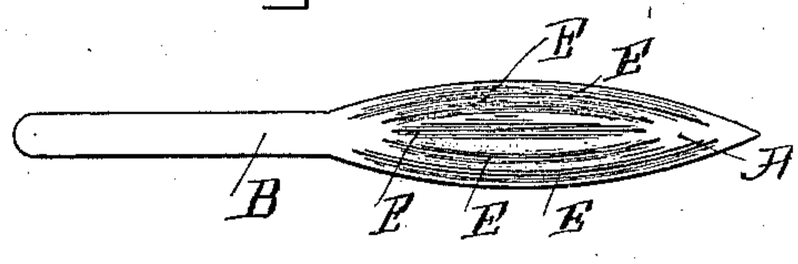

Figure 3.

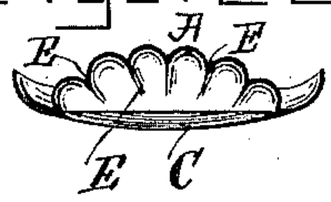

Figure 4.

WITNESSES:

Joseph L. Levy.

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UNITED STATES PATENT OFFICE.

JAMES F. HOTCHKISS, OF NEW YORK, N. Y.

FOUNTAIN FOR PENS.

SPECIFICATION forming part of Letters Patent No. 368,590, dated August 23, 1887.

Application filed June 29, 1887. Serial No. 242,844. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. HOTCHKISS, a citizen of the United States, and a resident of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Fountains for Pens, of which the following is a specification.

My invention relates to improvements in detachable fountains for pens; and it consists in a corrugated concavo-convex reservoir provided with a shank at its rear end, by means of which it is held in proper relation to the pen, and provided, also, with an ink receiving and discharging orifice or orifices near the forward end of the fountain.

Figure 1 illustrates a longitudinal section of a pen in its holder with my fountain attached. Fig. 2 illustrates a top view of the fountain. Fig. 3 illustrates a cross-section of the fountain and pen on the line X X of Fig. 1. Fig. 4 illustrates a side plan view of the fountain.

My invention is an improvement upon and obviates certain defects found to exist in prior fountain attachments—as, for instance, that described and claimed in United States Letters Patent granted to George W. Woolley, dated May 27, 1884, No. 299,499. In the said fountain attachment, unless there be present within the concavity of the fountain some device to aid in holding the ink, such as the valves of Woolley, or spiral wire or other equivalent device, there is great danger when the fountain is freshly charged and full of ink that its entire contents will escape from the fountain and be discharged on the paper, thus destroying the writing; and this is especially apt to occur in the event of a downward movement of the pen suddenly arrested, as in the act of dotting an "i" or making a period. If, on the other hand, the valves, such as referred to by Woolley, or the spiral wire, be used to obviate this discharge of the ink, then cleansing of the fountain, which is always desirable on the introduction of a new pen, is very difficult, resulting frequently in bending the valves or the wire out of shape and destroying the fountain. These objections are so serious that it has been found better to do away entirely with the valves and wires and all such appliances and to reduce the size or altitude of the fountain, thus necessitating a reduction of the writing capacity of the pen.

By my invention I obviate the foregoing difficulties, and also secure the greatest capacity of the fountain, and its construction is such that it may be easily and speedily cleaned.

A is the body or concavo-convex part of the fountain.

B is the shank, which is held by the pen-holder, as shown in Fig. 1.

C is the pen.

D D are small notches made near the forward end of the fountain to facilitate the inflowing and discharge of the ink to and from the fountain. These several notches may be made as a single continuous opening, if desired. The body of the fountain is not only concavo-convex, but has deep corrugations E E E made therein longitudinally, as shown best in cross-section in Fig. 3 and in plan in Fig. 4.

The operation is obvious. The corrugations E E E, extending into the fountain, perform the same ink-holding function that Woolley's valves and the old coiled wire performed, yet, being integral with the fountain and rigid and smooth, it can be readily cleaned when desired.

Instead of running longitudinally, the corrugations may run transversely of the fountain; but I prefer the longitudinal construction.

Having described my invention, I claim—

1. A detachable fountain for pens, consisting of a corrugated concavo-convex reservoir and a shank, substantially as set forth.

2. A detachable fountain for pens, consisting of a corrugated concavo-convex reservoir, having an orifice or orifices for the inflowing and discharge of the ink near the point of the reservoir, and a shank, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 28th day of June, A. D. 1887.

JAS. F. HOTCHKISS.

Witnesses:
JOHN H. IVES,
GEORGE A. VOSS.