

G. W. WOOLLEY.

Fountain-Pen.

No. 110,186.

Patented Dec. 13, 1870.

Fig. 1.

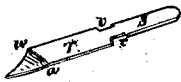


Fig. 2.



Fig. 3.



Fig. 4.



Witnesses.

Joseph Williams
J. C. Conroy.

Inventor.

George Washington Woolley

United States Patent Office.

GEORGE WASHINGTON WOOLLEY, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 110,186, dated December 13, 1870.

IMPROVEMENT IN PENS.

The Schedule referred to in these Letters Patent and making part of the same.

I, GEORGE WASHINGTON WOOLLEY, of Washington, District of Columbia, have invented a new and improved Fountain-Pen, of which the following is a specification.

Nature and Object of the Invention.

The object of my invention is to supply a pen, with a fountain attached to the concave surface of the pen, which fills instantly by dipping, sheds ink freely and regularly by pressure, is not liable to blot, can easily be kept clean, and holds ink enough to write a page or two of cap paper from a single dip.

Description of the Accompanying Drawing.

Figure 1 is the fountain or reservoir before being bent, made of sheet-brass.

Figure 2 is the fountain bent ready for placing in the pen.

Figure 3 is the pen, with clasps *a a a a*, which are to embrace the fountain.

Figure 4 represents the fountain in the pen.

General Description.

The pen represented in the drawing, fig. 3, I make with four clasps, *a a a a*, at the sides, being bent to correspond with the slight convexity of the surface of the fountain. Flanges may be used instead of the four clasps.

To make a fountain above described, I use sheet-brass, as thin as can be worked, with sufficient elas-

ticity, shaping a piece as represented in the drawing, fig. 1, which is one-eighth inch shorter than the pen.

There is an indentation, forming a kind of groove, just forward of the shoulder, and from this it is tapered to the point, which is the one-fourth of an inch. It is regularly depressed, forming an inclined plane, its point approaching within one-thirty-second inch of the pen and to one-eighth of an inch of the pen's point.

The surface at the notch *v* should be flat, measuring one-eighth of an inch across, and the length of the notches is one-eighth inch between *r* and *s*. To form a good and durable spring it must not be bent acutely, but rounding, as at *v*, fig. 2. The length of the part *s* which forms the spring is one-half an inch, and in width one-sixth of an inch.

The surface of this is flat, whereas the part *r*, between the shoulders *u* and the notch *v*, is a little convex transversely.

Claim.

I claim—

In combination with a pen provided with suitable fastenings, the fountain attachment shown in figs. 1 and 2 of the drawing, substantially as and for the purposes hereinbefore set forth.

GEORGE WASHINGTON WOOLLEY.

Witnesses:

T. O. CONNOLLY,
JOSEPH WILLIAMS.