E. W. GILES.

PEN-HOLDERS.

No. 194,425. Patented Aug. 21, 1877.

Fig. 1.

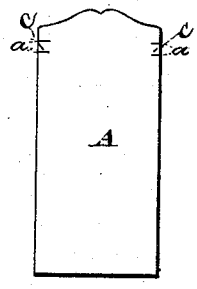


Fig. 2.

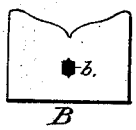


Fig. 3.



Fig. 4.

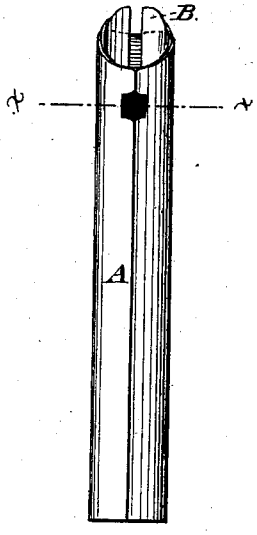


Fig. 5.

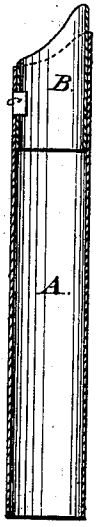


Fig. 6.

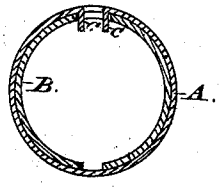
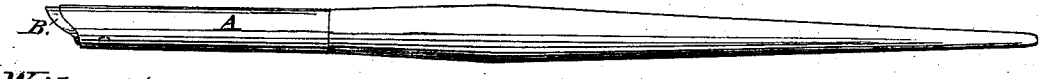


Fig. 7.



Witnesses:

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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN PEN-HOLDERS.

Specification forming part of Letters Patent No. **194,425**, dated August 21, 1877; application filed January 11, 1877.

To all whom it may concern:

Be it known that I, E. WALTER GILES, of New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Pen-Holder Tips; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to produce a pen-holder tip that is more durable, neater, and simpler in construction than those now in general use, and that can be furnished at a reduced cost.

My invention consists in providing the outside tube of the tip with a couple of small slits, forming a tongue, *c*, between them, and the spring part, that goes into the end of the tip-tube, with a hole, into which the metal between the slitted part is bent, and thus the two parts—viz., the outer tube and the spring—are firmly secured together, and the outside tube is also prevented from spreading, as is the case with pen-holder tips now in general use, especially if a pen of larger size is used in a small holder, all of which will be more fully described in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 is a plan view of the outside blank for a pen-holder tip. Fig. 2 is a plan view of the blank for the spring of the tip. Fig. 3 shows the blank rounded to a pen-holder tip, with the spring-blank placed in position ready for clinching. Fig. 4 is an enlarged view of the pen-holder tip and spring clinched. Fig. 5 is a longitudinal section of Fig. 4. Fig. 6 is an enlarged cross-section on line *x x* of Fig. 4. Fig. 7 is a side view of the pen-holder complete.

In the drawing, A, Fig. 1, represents the outside blank for a pen-holder tip, having on each side short slits *a a*, that form a tongue, *c*, which is to be bent down by a punch or other suitable manner into a hole, *b*, in the blank B, for the inside spring of the pen-holder clip, between which two the pens are firmly held. In Fig. 3 the outside blank A is shown rounded up to form a pen-holder tip, with the spring B placed into it and ready for clinching or securing the two together. In Fig. 4 the pen-holder tip is shown completed, the metal part *c* between the two slits *a a* of the outside tube having been bent down into the hole *b* of the spring B, thus firmly securing the outside tube and the spring together, and at the same time preventing the said outer tube from spreading when a large pen is inserted therein, and as is the case with pen-holder tips now in use. The manner of clinching or securing the two parts together is also shown in Figs. 5 and 6.

The advantages of my improved pen-holder tip are, simplicity of fastening the spring in position, as well as firmness, durability, neatness, and economy in time and cost of manufacture; that the spring is not only fastened securely in position to the pen-holder tip, but it also prevents the spreading of the outside tube, thus improving the appearance as well as the strength and durability of the tip. It also prevents the spring from being pushed back into the outside tube when placing a pen into the holder, or from drawing out when removing the pen from the holder. It can be made of any material desired.

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

The pen-holder tip herein described, consisting of the outer tube A, with slits *a a* and tongues *c c*, and the spring B, having a hole, *b*, constructed and secured together substantially as shown and specified.

In testimony that I claim the foregoing as my own I hereby affixed my signature in presence of two witnesses.

E. WALTER GILES.

Witnesses:

JAMES H. COSGROVE,

GEO. W. C. BELL.