(No Model.)

W. M. COLE.

PENHOLDER.

No. 563,015. Patented June 30, 1896.

Fig. 1.

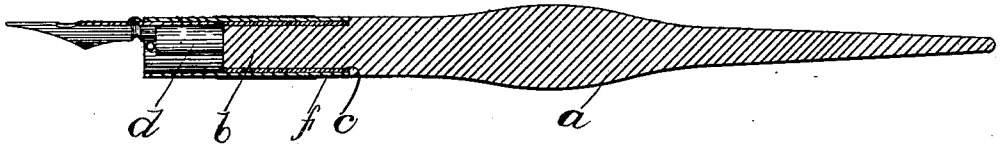

Fig. 2.

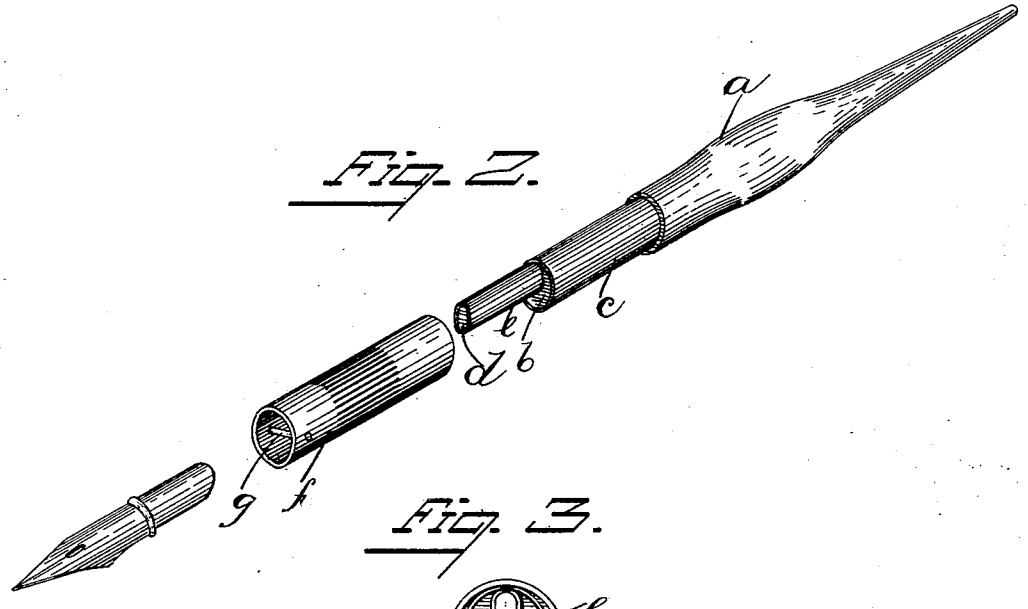

Fig. 3.

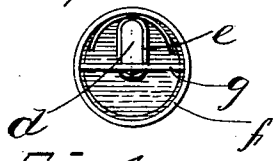

Fig. 4.

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UNITED STATES PATENT OFFICE.

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PENHOLDER.

SPECIFICATION forming part of Letters Patent No. 563,015, dated June 30, 1896.

Application filed April 23, 1896. Serial No. 588,692. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MORSE COLE, of Concord, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Penholders, of which the following is a specification.

This invention has relation to that class of penholders in which the pen is held between a rotary clamping-sleeve and the holder, and has for its object the provision of such improvements as will allow of a pen of any size or shape being securely held in position and being easily detached when worn out.

To these ends the invention consists of an improved penholder, as I shall now proceed to describe with more particularity, and set forth in the appended claims, reference being had to the accompanying drawings, and to the letters marked thereon, forming a part of this specification, the same letters designating the same parts or features, as the case may be, wherever they occur.

In the drawings, Figure 1 is a longitudinal section of my improved penholder with the pen in place. Fig. 2 is a perspective view showing the pen, the rotary sleeve, and the holder as all being detached. Fig. 3 is a front end view of the penholder with the pen inserted. Fig. 4 is a similar view showing a different method of holding the pen.

In the drawings, the handle *a* of the pen may be of any shape which fancy may dictate, it being provided with a reduced portion *b*, surrounded by a ferrule *c*. Extending out from the reduced portion *b* is a projection *d*. This may be formed as a part of the ferrule *c*, or as an integral portion of the holder, or it may be formed as a portion of the holder with a metal ferrule *e* around it, the latter construction being shown in the drawings.

f is the rotary clamping-sleeve, which is loosely mounted upon the ferrule *c*, so as to rotate thereon, it being provided with a milled exterior to assist its rotation by the fingers. The said clamping-sleeve is substantially coextensive in length with the ferrule *c* and the projection *d* and projects slightly beyond the end of the latter. The inner surface of the sleeve may, in some instances, be roughened near its outer end or at other suitable point, for the purpose of the better holding the pen in place against slippage, and the said surface may be provided with a cross-bar *g* or equivalent means for holding the pen against rotary movement coincident with the movement of the projection *d* when the latter is being rotated to release the shank of the pen.

The pen may be clasped in the holder by inserting its shank in the sleeve and imparting to the holder a semirotation. This carries the projection *e* around until it engages the shank of the pen and holds it along its median line firmly against the inner surface of the sleeve *f*, as illustrated in Fig. 3, the pen in the meantime having been stopped or held against movement relatively to the sleeve by the cross-bar *g* or equivalent feature or device.

The projection *d* hereinbefore described is of a peculiar shape, as may be seen by inspection of Figs. 2 and 3. In cross-section it is of the shape of an ellipse, or a segment of the same, so that it may grasp the shank of a pen of any shape. That is to say, that portion of the projection which clamps the pen against the sleeve is considerably less than a semicircle in cross-section, so that there is an elongated narrow bearing-surface for the concave portion of the pen-shank. The projection being of the shape of an ellipse, the pen may be clamped, not only along its median line thereby, but as the surface of the same presents varying curves, different portions thereof may be employed to clamp the pen along the edge. In Fig. 4 I have illustrated the projection as crowding the pen in such way that one edge thereof is pressed against the cross-bar and the other edge is pressed against the rotary clamping-sleeve. This is sometimes a preferable way for clamping pens of a peculiar shape.

One of the greatest objections to the holders now in use is that it is impossible to employ pens of varying sizes and shapes, since the holders are so constructed as to accommodate pens of practically one size or shape.

By my invention I am enabled to insert in the holder practically all sizes and shapes of pens, since the projection is of such shape in cross-section that it may lie in the shank of a pen of any degree of concavity.

The small number of and simplicity of the parts comprising my invention is an important feature thereof, as is also the fact that in use the pen is most readily released from

the holder when the invention is operated to secure that result—*i. e.*, by a semirotation of the handle. It is this latter object or end that it is more especially designed by my improvements to attain, since the mischief with present penholders resides in the difficulty with which a pen is removed therefrom rather than in putting the pen in place and maintaining it thereafter in position.

Having thus explained the nature of the invention and described a way of constructing and using the same, though without attempting to set forth all of the forms in which it may be made or all of the modes of its use, it is declared that what is claimed is—

1. A penholder comprising in its construction, a holder and a rotary clamping-sleeve, the holder being provided with a longitudinal projection which is elliptical in cross-section, substantially for the purpose set forth.

2. A penholder comprising in its construction, a holder and a rotary clamping-sleeve, the holder being provided with a longitudinal projection which is elliptical in cross-section and the rotary clamping-sleeve being provided with a detent to engage the pen, all substantially as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 21st day of December, A. D. 1895.

WILLIAM MORSE COLE.

Witnesses:
MARCUS B. MAY,
CHAS. E. TODD.