

(No Model.)

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PENHOLDER.

No. 526,416.

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Fig. 1.

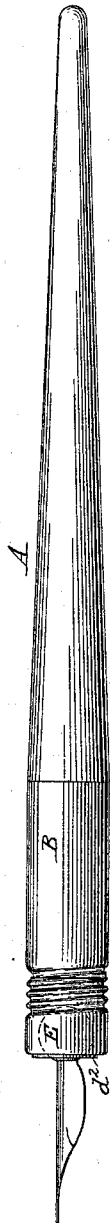


Fig. 2.

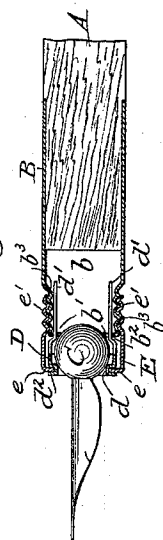


Fig. 3.



Fig. 4.

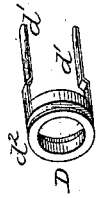


Fig. 5.

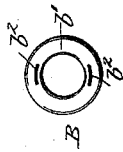


Fig. 6.

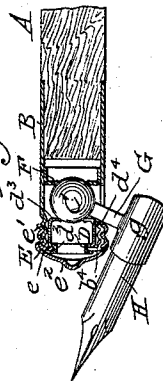


Fig. 7.



Fig. 8.

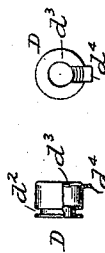


Fig. 9.



Fig. 11.



Fig. 12.



Witnesses:

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UNITED STATES PATENT OFFICE.

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PENHOLDER.

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Application filed April 23, 1894. Serial No. 508,692. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER H. STEFL, a citizen of the United States, residing at Brookville, in the county of Jefferson and State of Pennsylvania, have invented certain new and useful Improvements in Penholders, of which the following is a specification.

According to my invention, I provide a pen holder which has a pen carrier secured to it by improved devices, by means of which the pen may be clamped in any desired position to hold it at any desired angle or inclination with reference to the center-line or axis of the body of the holder. The pen carrier is in the form of a ball to which the pen is attached, and the end of the holder proper is provided with a seat or socket against which one end of the ball rests, a flanged collar bearing against the opposite end of the ball. A nut secured to the collar engages with the end of the holder, and adjusts the collar to the proper position and holds it securely. Projections on the collar engaging with the stationary part of the holder prevent it from turning while being adjusted, and the collar is so connected with the nut that, while the nut is free to turn with reference to the collar, it is attached thereto in such manner that it will not accidentally separate from it. Instead of attaching the pen directly to the ball, I may mount it in a socket formed in an arm projecting laterally from the ball, by which arrangement the pen may have a wider range of adjustment.

The arrangements above described are those preferred, but my invention is not limited to these details of construction, as it involves isolated features which are hereinafter more fully described.

The subject-matter deemed novel and as within the scope of my invention is pointed out in the claims.

In the accompanying drawings—Figure 1 is a side elevation of a pen holder embodying my improvements. Fig. 2 is a longitudinal, central section of one end thereof, with the pen and its ball carrier in elevation. Fig. 3 is an end view of the pen holder and carrier, with the pen removed. Fig. 4 is a perspective view of the collar constituting one member of the clamping devices; Fig. 5 is an end view of the ferrule on the end of the body of the holder,

forming the other member of the clamping devices. Fig. 6 is a view similar to Fig. 2, but showing a modification in which the pen is carried by an arm projecting laterally from the ball. Fig. 7 is a side elevation of the ferrule which is secured to the end of the body of the holder. Fig. 8 is a view, partly in elevation and partly in section, of the collar constituting one of the clamping members. Fig. 9 is a rear elevation of the same. Fig. 10 is a view of the pen carrier shown in Fig. 6. Fig. 11 shows an end view and a side view of a modified form of pen carrier, and Fig. 12 shows still another modification.

Referring first to Figs. 1 to 5, A indicates the body of the pen holder. Preferably, but not necessarily, it is provided on one end with a ferrule B, which may be made of sheet metal, and which projects beyond the end of the body A, to form a socket or recess *b*. I wish it understood that the ferrule constitutes a part of the body A, and need not necessarily be a separate piece. At its end *b'*, the ferrule is flanged and suitably formed to provide a socket or recess to receive one end of the ball or pen carrier C. A collar D bears against the opposite end of the ball, being provided with a shoulder or socket *d*, adapted to fit the ball, and with fingers *d'*, which project through slots *b²*, in the front of the ferrule, by which arrangement the collar is prevented from turning with reference to the ferrule. At its outer end the collar is turned or flanged at *d²*, to form an annular groove or recess for the inturned flange *e*, of the nut E, which is screw-threaded at *e'*, to fit a corresponding screw-thread *b³*, on the ferrule B. The arrangement is such that the nut E can turn relatively to the collar D, and, by means of the screw-threads, moved longitudinally with reference to the ferrule B.

When the ball or pen carrier C, is in the position indicated in Fig. 2, it may be firmly clamped and securely held by the devices above described. When the nut is loosened, the carrier may be adjusted in any direction, to any desired inclination, and, when thus adjusted, by turning the nut E, it may be securely clamped in that position.

It will be observed that, when tightening the nut, the collar will move longitudinally toward the ferrule, and will not move axially

with reference thereto. This is an important feature of my improvements because, if either or both of the clamping members moved with reference to the ball or carrier after it was set, it would tend to move it out of place, but the arrangement is such that not only is the nut free to move axially with reference to the collar, but the collar is held positively against an axial movement by means of the fingers d' , before referred to.

The clamping devices and the pen carrier may be modified without departing from my invention.

In Fig. 6, the body of the holder A, is shown as provided with a ferrule B, screw-threaded at its outer end to receive the screw-threaded end e' , of the nut E, which, in this instance, is formed with a closed cap e^2 , spun on or otherwise secured to the screw-threaded part e' , which is formed with a flange e , to engage the groove or recess d^2 in the holder D. The form of the collar, in this instance, is somewhat modified. Its rear end is flanged at d^3 , to form a bearing for the ball or carrier C, and it is provided with a lug d^4 , which enters a socket b^4 , in the ferrule B. This construction, while permitting the collar to move longitudinally with reference to the body of the holder, retains it against a turning or axial movement. In this instance, the rear bearing or clamping member of the carrier is preferably in the form of a flanged ring F, secured in proper position in the ferrule B.

The ball C, is provided with a laterally projecting arm G, having on its outer end a socket-piece or head g , to receive the pen H. This socket-piece is suitably shaped to accommodate the pen, which may be inserted in either end.

Preferably all parts of the clamping devices except the ball or carrier C, are made of sheet metal.

The slot b^4 , is preferably enlarged at its inner end b^5 , to permit of a wider range of adjustment of the arm F.

In Fig. 11 a modification is shown in which the arm F projects forwardly from the ball, the socket g being in the end thereof, instead of arranged transversely with reference thereto.

In Fig. 12 substantially the same form of carrier is shown as that indicated in Figs 6 and 10.

By securing the pen directly to the ball or carrier C, as indicated in Fig. 2, the center of movement is brought nearer to the point of the pen than it would be if the pen were mounted in an arm projecting from the ball and thus I secure a construction which is firm and steady, with small leverage and little liability to slip.

In the construction shown in Fig. 6, while the pen is carried by an arm projecting lat-

erally from the ball, my improved clamping devices are such that there is little liability of slipping, and the pen has a wider range of adjustment to accommodate different styles of writing and the various fancies of the writer.

I claim as my invention—

1. The combination, of the body of the holder, the pen carrier at one end of the holder, a nut engaging the body of the holder, and a collar connected with the nut and bearing against the pen carrier but held against axial movement when the nut is turned, substantially as set forth.

2. The combination, with the body of the holder, of a screw-threaded ferrule mounted on one end thereof, a nut engaging the ferrule, a collar attached to the nut, and a pen carrier arranged between the ferrule and the collar, substantially as set forth.

3. The combination, with the body of the holder, of a nut adjustable longitudinally thereon, a pen carrier arranged in a seat or socket at the end of the body of the holder, and a collar attached to the nut and having a seat for the carrier, substantially as set forth.

4. The combination, with the body of the holder, of the collar provided with devices, such as the fingers d' , entering slots in the end of the body to prevent it from turning, a pen carrier held between the collar and the end of the body, and a nut engaging the body and the collar to move the collar toward the body, substantially as set forth.

5. The combination of the body of the holder, a ferrule secured to the end thereof, a spherical carrier C having a laterally projecting arm extending through an opening in the side of the ferrule, and provided with a socket piece for the pen arranged transversely with reference to the laterally projecting arm, and clamping devices for holding the carrier in any desired position, substantially as set forth.

6. The combination, with the slotted ferrule provided with a clamping member for one end of the carrier, of a collar constituting the other clamping member, and a nut engaging the collar and the ferrule to tighten the collar on the carrier, substantially as set forth.

7. The ball or carrier C, provided with a laterally projecting arm having a head g , provided with pen sockets on opposite sides, in combination with the body of the pen holder and clamping devices for securing it thereto, substantially as set forth.

In testimony whereof I have hereunto subscribed my name.

ALEXANDER H. STEFL.

Witnesses:

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