

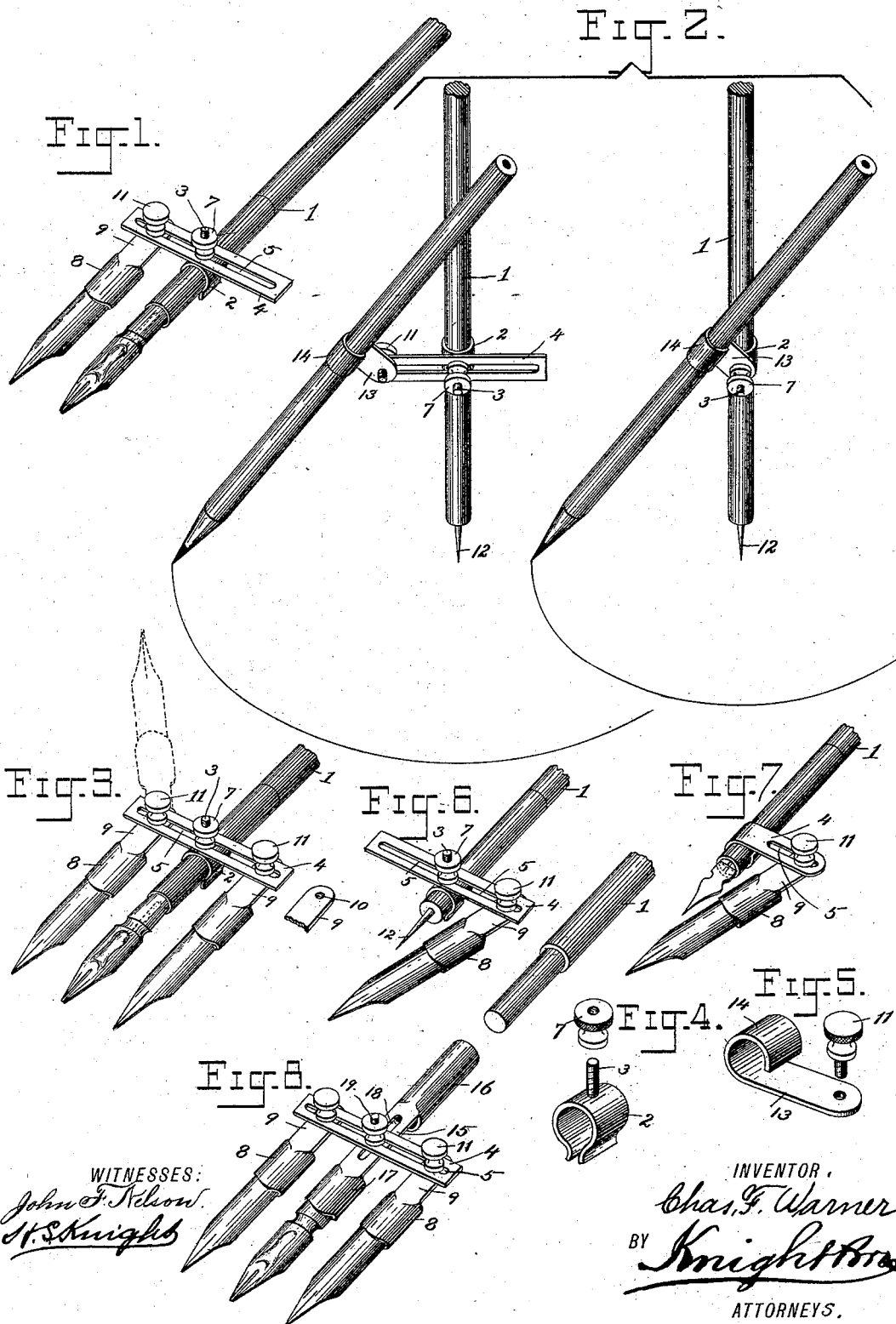
(No Model.)

C. F. WARNER.

PEN HOLDER.

No. 384,101.

Patented June 5, 1888.



WITNESSES:
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UNITED STATES PATENT OFFICE.

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PEN-HOLDER.

SPECIFICATION forming part of Letters Patent No. 384,101, dated June 5, 1888.

Application filed September 28, 1887. Serial No. 250,953. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. WARNER, a citizen of the United States, residing at Orange, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Pencil Compasses and Attachments, of which the following is such a full, clear, and exact specification as to enable others to make and use the same.

The object of my invention is to provide an attachment which may be readily attached to any ordinary pen-holder, pencil, or other like staff for holding one or more pen-points for ruling a number of parallel lines at once, or, when but one point is used, to enable the penman to tip the pen at any angle to the paper and to adjust it at any length from the end of the pen-holder staff, and a further object of the invention is to provide the holder-staff with means whereby the implement may readily and easily be converted into a pencil or other compass by removing the pen-point from the attachment and attaching in lieu thereof the desired marking-instrument with which the circle is to be described.

The invention consists in providing the end of the pen-holder staff with a needle-point which may be removable or not, and providing a cheap and effective clamp, which may be firmly attached to the said staff and yet be capable of longitudinal adjustment thereon, and providing said clamp with an arm projecting from one or both sides thereof, which has a longitudinal slot through which may be inserted a thumb screw or screws for adjustably clamping the pen or pens to the said arm, or, in case the instrument is to be used as a compass, for binding any suitable holder for a pencil to said arm.

My invention also consists of various minor features of novelty, all of which will now be described with reference to the accompanying drawings, which form a part of this application, and then specifically pointed out in the claims hereto annexed.

In said drawings, Figure 1 is a view of a pen-holder with my improvement applied thereto, showing a double pen-point in the holder proper and a single point clamped to the arm for ruling dollar and cent columns, for instance. Fig. 2 is a view of the holder

with a pencil attached to the clamp, forming a pencil-compass. Fig. 3 is a view of the holder having a pen-point in the center and one at each end of the said arm. Fig. 4 is a detail view of the said clamp. Fig. 5 is a detail view of the clamp for holding the pencil. Fig. 6 is a view of the holder and attachment with but one pen-point in it, the pen being turned at an angle to the holder, but its point in a line with its axis. Figs. 7 and 8 are modified forms.

1 represents the pen-holder staff, over which may be forced the clamp 2, provided with an upwardly-projecting screw, 3.

4 is the arm to which the pen-points and pencil are clamped, having a slot, 5, through which the screw 3 projects and carries at its outer end a thumb-tap, 7, by means of which the arm 4 may be rigidly clamped to the clamp 2, and consequently to the holder itself.

8 are supplemental holders or pen-stocks for holding the extra pen-points, which are provided at one end with a flat portion, 9, in which is a screw-threaded hole, 10, by means of which and the thumb-screws 11 they are clamped to the under side of the arm, the male screws of the thumb-screws of course passing through the slot 5. The needle-point 12 may be permanently planted in the end of the pen-holder staff, or it may be made removable and capable of insertion in the pen-holder in any suitable manner—such, for instance, as shown in Fig. 7 of the drawings. This point is considerably shorter than the pen in the holder 1, and therefore does not interfere in the least with the inking or manipulation of the pen.

For penmen who hold their pen in an unnatural manner, and for left-handed penmen, the pen in the holder 1 may be taken out, and in fact all of the pens removed except one at the left-hand end of the arm, whose point may be deflected toward the holder 1 until it is in a line with the axis of said holder, whereupon it may be rigidly clamped in this position by the thumb-screw 11, and for penmen who write what is called "back-hand," and always point the pen to the left, the pen at the right-hand end of the arm may be employed and the point deflected to the left and the supplemental holder or stock secured in this position in a similar manner. By the proper arrangement

of this attachment it will readily be seen that no matter how incorrectly a penman handles his pen the point will always be in the proper position relative to the paper, and hence avoid the annoyance and inconvenience occasioned by the pen sticking in the paper, and, further, the pen-point may be adjusted at a long or short distance from the end of the staff and at the same time maintained in a direct line with the axis of said staff, which position is of course essential, and which could not be accomplished by means of the holders heretofore employed for holding the pen at an angle to the staff.

If it is desired to use the implement as a circling-pen, the pen-point may be turned outward and the clamp slid up or down the staff until the proper radius is obtained, and, the central pen being removed, the needle-point 12 is placed for the center and the implement manipulated as is an ordinary compass; but when it is desired to convert the instrument into a pencil-compass the pen and the supplemental holder or stock are removed, and in their stead is secured in an analogous manner the arm 13 of the clamp 14, which latter is adapted to carry any form of pencil which, together with the point 12, forms the compass. In the latter use of the instrument, however, it is not necessary to employ the arm 4, as the pencil-clamp may be secured directly to the clamp 2 by screwing it on the screw 3, and, if desired, screwing the tap 7 on top of this in a manner similar to that illustrated by one of the forms shown in Fig. 2.

It will be noted that by the arrangement of the arm 13 relative to the clamp 14, and that by clamping the said arm and clamp above the arm 4 or clamp 2, any length of pencil may be employed, and it may be spread out to any radius without bringing its upper end in contact with the staff of the pen-holder, but will pass over it, as shown.

As a modification of my invention, I may employ a clamp for the pen-holder staff which has but one arm projecting therefrom, and that arm made integral with the clamp.

Still another form of the invention is to provide an extension, 15, from the cylindrical piece 16, which receives the pen-holder staff, and in this extension above the pen-stock 17, which is integral with said extension, forming a slot, 18, through which is inserted a small bolt, 19, upon which the thumb-tap is screwed and clamps the arm on, as before described.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:—

1. The combination, with a staff, of a point at one end of said staff, a spring-clamp adapted to engage said staff, and an arm projecting from said clamp and capable of having one or more marking-instruments secured thereto, substantially as set forth.

2. The combination, with a clamp for engaging a pen-holder, of an arm adjustably secured to said clamp and adapted to have one or more pen-stocks secured thereto, substantially as set forth.

3. The combination, with the slotted arm of a pen-stock provided with a screw-threaded hole and a set-screw therefor, substantially as and for the purposes set forth.

4. The combination, with a staff having a point at one end, of a clamp for engaging said staff and being adjustable thereon, and a screw projecting from said clamp and provided with a tap whereby an arm for carrying one or more marking implements may be adjustably secured thereto.

5. The combination, with the staff 1, having a point at one end, of the clamp 2, for engaging said staff, an arm having a longitudinal slot, a screw projecting through said slot for securing the arm to said clamp, and a pen-stock adapted to be clamped to said arm, substantially as set forth.

6. The combination of the clamp 2, having screw 3, arm 4, having slot 5 fitting over said screw, tap 7 for said screw, a pen-stock, 8, having screw-threaded hole 10, and a screw, 11, for passing through slot 5 and hole 10, substantially as and for the purposes set forth.

7. The combination, with the clamp 2, for engaging a staff, and the clamp 14 for engaging a marking-instrument, of an arm, 13, projecting from clamp 14, and having a hole therein, and a screw for clamping said arm to the clamp 2, substantially as set forth.

8. As an article of manufacture, the clamp 2, provided with an arm having a slot and a pen-stock provided with a screw-threaded hole, and a screw whereby said stock may be secured to said arm.

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Witnesses:

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