

1,237,132.

Patented Aug. 14, 1917.

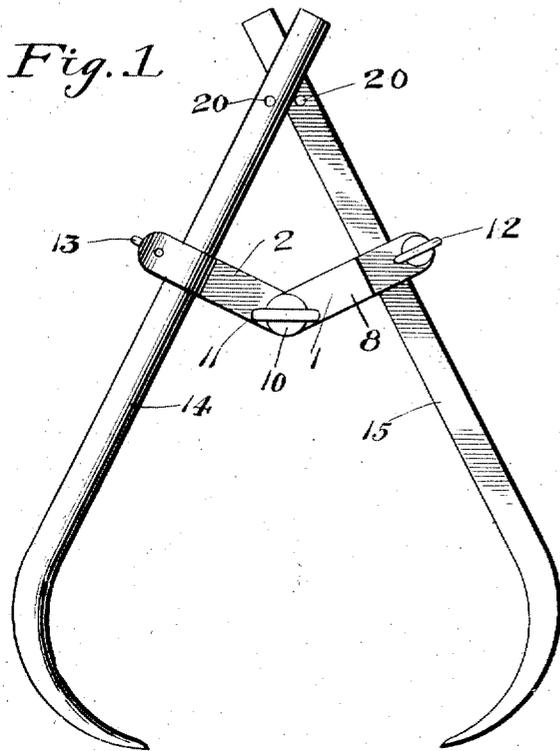


Fig. 7.

Fig. 3.

Fig. 8.

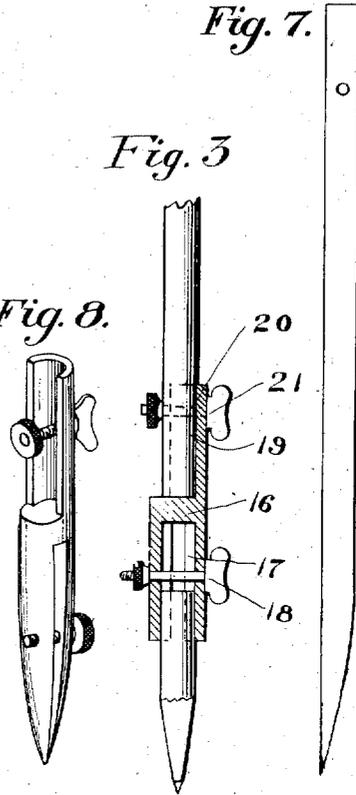


Fig. 2.

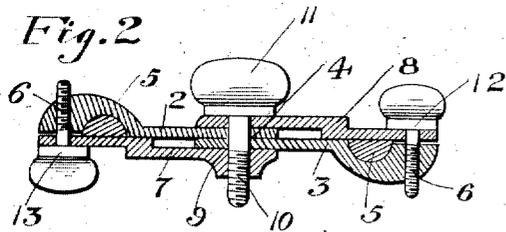


Fig. 4.

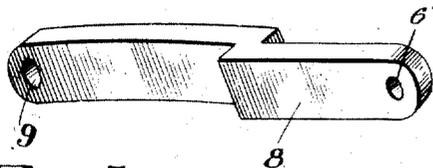
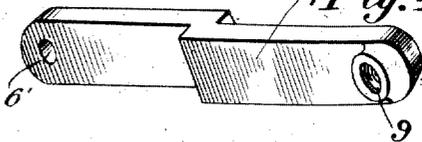


Fig. 5.

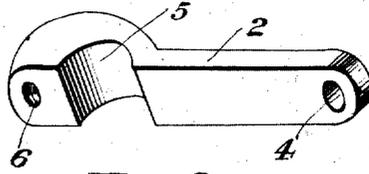


Fig. 6.

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CALIPERS.

1,237,132.

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To all whom it may concern:

Be it known that I, WILLIAM S. WHYTE, a citizen of the United States, residing at Bedford, in the county of Lawrence and State of Indiana, have invented new and useful Improvements in Calipers, of which the following is a specification.

This invention relates to improvements in calipers.

10 In carrying out the present invention, it is my purpose to provide a pair of calipers wherein the legs may be adjusted vertically relatively to and independently of each other and which will be constructed in such manner that the ends of the legs will pass each other when such legs are swung relatively, thereby preventing one leg from interfering with another.

15 It is also my purpose to provide a device of the class described, which may be used either as a compass or calipers, and which may be readily and quickly adapted for either use.

20 With the above and other objects in view, the invention consists in the construction, combination, and arrangement of parts hereinafter set forth in and falling within the scope of the claims.

In the accompanying drawings;

30 Figure 1 is a view in side elevation of a device constructed in accordance with the present invention.

Fig. 2 is a horizontal sectional view through the clamp for the legs of the device.

35 Fig. 3 is a longitudinal sectional view through a pencil holder adapted to be used with one of the legs of the device when it is desired to use the same as a compass.

40 Figs. 4, 5 and 6 are views of details of the invention.

Fig. 7 is a view in side elevation of the compass leg.

Fig. 8 is a perspective view of the pen for use in connection with the compass leg.

45 Referring now to the drawings in detail, 1 designates a clamp comprising main plates 2 and 3 having their corresponding inner ends lapped and placed in face to face contact with each other and formed with alining openings 4, and their outer ends formed across the inner faces with transverse grooves 5 and with threaded openings 6 beyond the respective grooves. Overlying the grooved face of the plate 2 is one end of a companion or clamping plate 7 and the other end of the plate 7 is offset and

overlies the inner end portion of the other main plate 3, while overlying the grooved portion of the plate 3 is one end portion of a clamping plate 8 having the other end portion offset and overlapping the outer surface of the plate 2. The inner ends of the plates 7 and 8 are formed with openings 9 that aline with the openings 4 and passed through these alining openings is a clamping screw 10 having one end formed with a head 11 and the other end threaded into the opening in the plate 7 so that the plates 3 and 8 may be locked to the plates 2 and 7 to prevent relative movement of the plates. Passed through an opening 6' in the outer end of the plate 8 and threaded into the opening 6 in the plate 3 is a clamping screw 12, while passed through an opening 6' in the outer end of the plate 7 and threaded into the opening 6 in the plate 2 is a clamping screw 13. 14 and 15 designate respectively the legs of the calipers and the ends of these legs are passed through the grooves 5 and held in adjusted position relatively to each other by means of the clamping screws 12 and 13, incident to the latter drawing the plates 8 and 3 together and the plates 2 and 7 together.

50 In practice, the legs 14 and 15 may be adjusted longitudinally of each other by loosening the clamping screws 12 and 13, and when the desired adjustment has been obtained, the clamping screws may be tightened so as to clamp the legs against movement. By loosening the screw 10 the pairs of plates carrying the respective legs 14 and 15 may be swung so that the legs may be swung relatively to each other. Owing to the disposition of the grooved faces of the plates 2 and 3, the legs 14 and 15 are offset from each other so that the ends of such legs may pass each other in the relative swinging thereof, thereby preventing one leg from interfering with the other.

100 16 designates a pencil holder having one end bifurcated as at 17 and the legs of the bifurcated portion formed with alining openings to receive a clamping screw 18 whereby the pencil may be clamped between the legs as shown in Fig. 3 of the drawing. The other end of the pencil holder is bifurcated as at 19 and is adapted to receive a compass leg. The legs of the bifurcated end 19 of the pencil holder are formed with openings that aline with an opening 20 formed in the compass leg to receive the

clamping screw 21 whereby the pencil holder may be held upon the compass leg.

In Fig. 7 of the drawings, I have shown a compass leg which may be used in connection with the clamp in place of the legs of the calipers, and when the device is used as a compass the pen shown in Fig. 8 may be employed in connection with one of the compass legs, as well as the pencil shown in Fig. 3.

While I have herein shown and described the preferred form of my invention by way of illustration, I wish it to be understood that I do not limit or confine myself to the precise details of construction herein described and delineated, as modification and variation may be made within the scope of the claims and without departing from the spirit of the invention.

I claim:—

1. A device of the class described comprising two legs and a clamp by which they are adjustably connected, the clamp consisting of two pairs of plates, the members of each pair being spaced from each other at their inner ends and pivotally interengaged with the members of the other pair, the members of each pair at their outer ends passing astride one arm, and means for clamping the arm in adjusted position between them.

2. A device of the class described comprising two legs and a clamp by which they are adjustably connected, the clamp consisting of two pairs of plates, the members of each pair being spaced from each other at their inner ends and interengaged with the members of the other pair and provided with alined holes, a set screw passing through said holes, the members of each pair at their outer ends passing astride one arm, and means for clamping the arm in adjusted position between them.

3. A device of the class described comprising two legs and a clamp by which they are

adjustably connected, the clamp consisting of two pairs of plates, the members of each pair being spaced from each other at their inner ends and pivotally interengaged with the members of the other pair, the members of each pair at their outer ends passing astride one leg and one member being transversely grooved to receive said leg, and a set screw connecting the members beyond said groove for holding the leg adjustably mounted between them.

4. A device of the class described comprising two legs, a clamp consisting of two pairs of plates, the members of each pair being spaced from each other at their inner ends and interengaged with the members of the other pair and provided with alined holes, a set screw passing through said holes, the members of each pair at their outer ends passing astride one leg and one member being transversely grooved to receive said leg, and a set screw connecting the members beyond said groove for holding the leg adjustably mounted between them.

5. A clamp for the purpose described comprising a pair of like plates whose inner ends lap each other face to face, whose inner faces are provided near their outer ends with transverse grooves, and whose bodies are pierced with threaded holes, a pair of clamping plates each coacting with one of said first-named plates and having its inner end overlapping the inner end thereof, its body offset, and its outer end lying across said groove and pierced with an opening registering with that in the first-named plate, the inner ends of all plates interengaging each other and being provided with alined holes, a set screw through said holes, and a set screw through the hole at the outer end of each clamping plate engaging the hole in its companion plate, for the purpose set forth.

In testimony whereof I affix my signature.

WILLIAM S. WHYTE.