(No Model.)

A. F. RADANT.

CALIPERS.

No. 572,827. Patented Dec. 8, 1896.

Fig. 1.

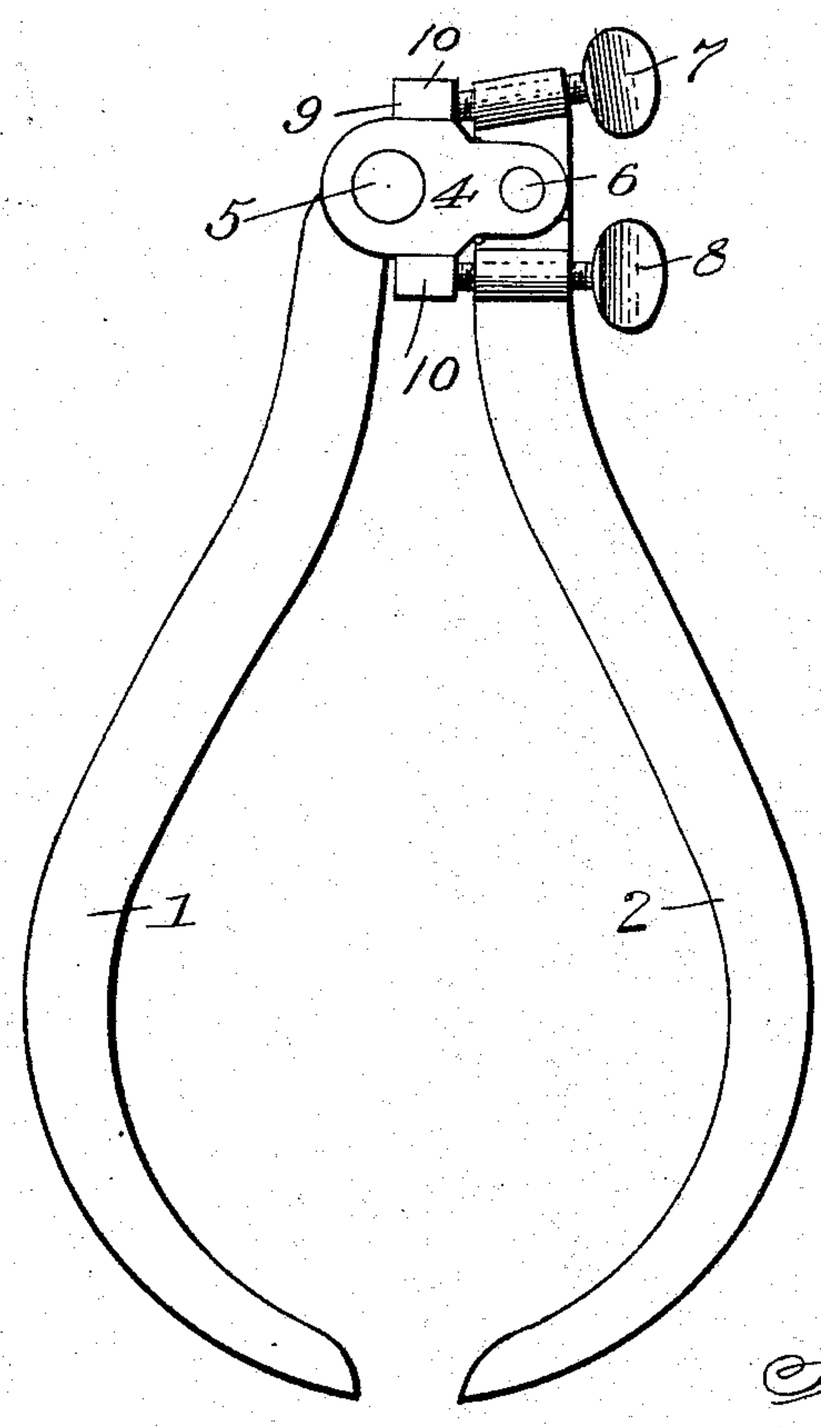


Fig. 2.

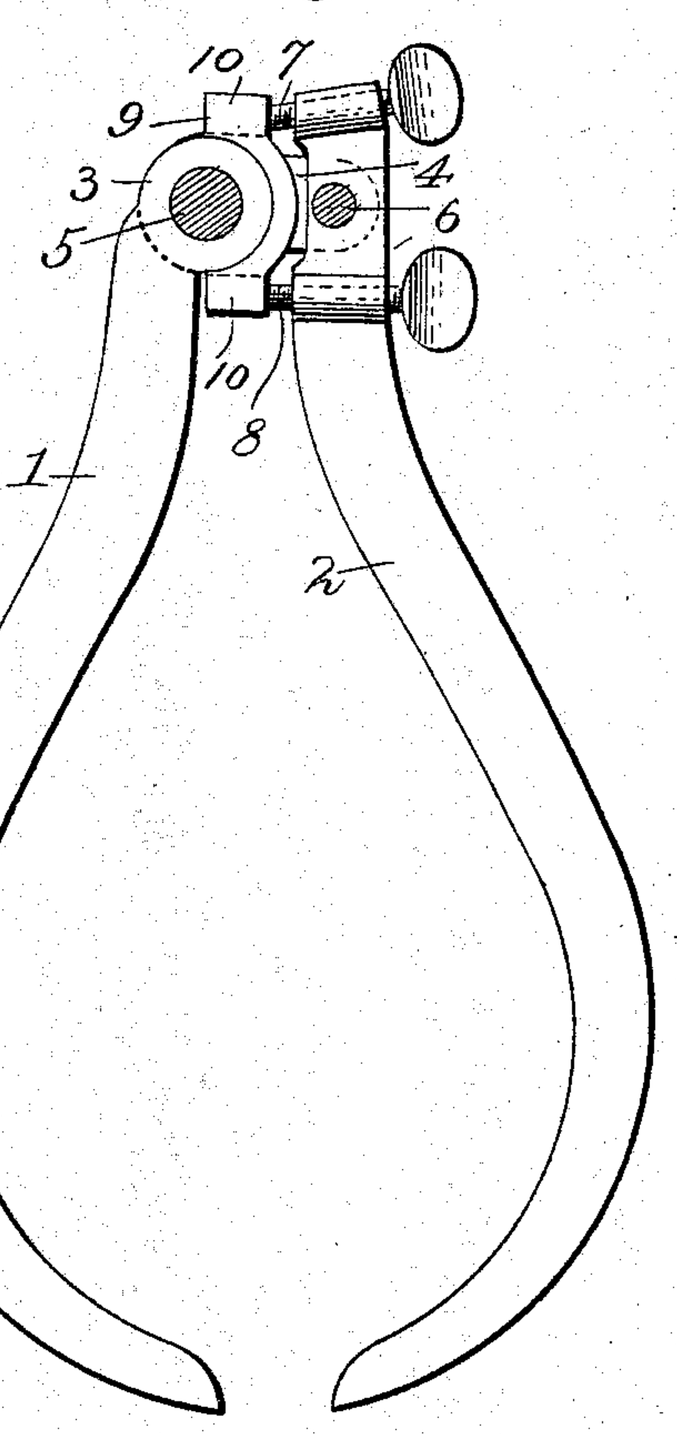
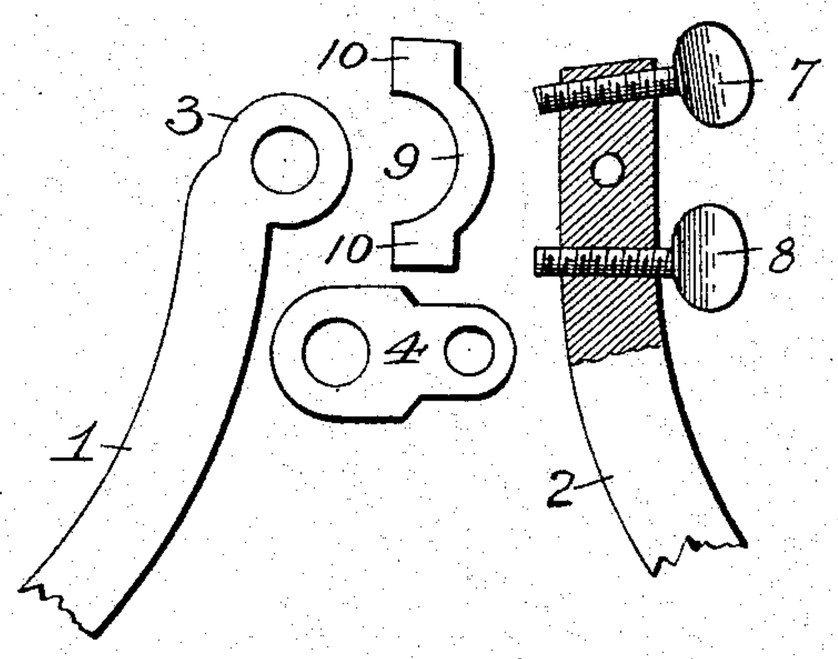


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

AUGUST F. RADANT, OF WAUSAU, WISCONSIN.

CALIPERS.

SPECIFICATION forming part of Letters Patent No. 572,827, dated December 8, 1896.

Application filed June 15, 1896. Serial No. 595,586. (No model.)

To all whom it may concern:

Be it known that I, AUGUST F. RADANT, a citizen of the United States, and a resident of Wausau, in the county of Marathon and State of Wisconsin, have invented certain new and useful Improvements in Calipers; and I do hereby declare that the following is a full, clear, and exact description of the invention, 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, which form a part of this specification.

My invention relates to improvements in calipers or dividers; and its object is to provide an improvement of this character which can be adjusted with great precision by means of adjusting-screws connected with one of the legs of the instrument, and which, when screwed up to adjust the legs, will force a friction-screw against the joint or ear of the other leg, which, by frictional contact therewith, will securely hold the leg in place, while the adjusting-screws will hold the other leg in its adjusted position. When either of the adjusting-screws is loosened, the pressure of the friction-shoe on the ear of the leg with which said shoe contacts is relieved, so that the said leg can be swung in and out.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a pair of calipers constructed in accordance with my invention. Fig. 2 is a longitudinal section of the same. Fig. 3 is a view showing the legs and friction-shoe detached from each other.

In the said drawings, the reference-numerals 1 and 2 designate two caliper-egs, one of which, 1, at the upper end, is formed with a circular apertured ear 3, which is confined between two plates 4 and pivotally connected therewith by a pivot or rivet 5, passing through said aperture and through corresponding apertures in said plates. The opposite ends of the plates are formed with an aperture, through which passes a pivot 6, and which also passes through an aperture near the upper end of leg 2, by which the latter is pivotally connected with said plates. Passing through screw-threaded apertures in the leg 2, at opposite sides of the pivot, are adjusting-screws 7 and 8. Interposed between said plates is an approximately semi-cylindrical friction-shoe 9, which engages with the curved ear 3. This shoe is formed at each end with a lug 10, against which the inner ends of the adjusting-screws bear.

In using the instrument the screws are loosened and the legs pushed apart or forced together, as the case may be, until they are approximately the distance apart to which they are to be adjusted. The screw 7 or 8 is then screwed in, according to whether the instrument should be slightly opened or slightly closed, which will cause the legs to be adjusted with great precision. This final adjustment will force or clamp the friction-shoe against the ear 3, and by the frictional contact therebetween the leg will be firmly held in place. The adjusting-screws prevent the other leg from turning on its pivot. By loosening either screw the leg 1 can be swung in or out.

The screws 7 and 8, by reason of their being located on opposite sides of the pivot 6, will, when turned, force the leg 2 inward or outward, according to the direction in which they are turned, and when the legs are adjusted they will bear with nearly equal pressure on the lugs by reason of their being about an equal distance from the pivotal point of the leg 2.

While I have represented and described the invention as being used in connection with a pair of calipers, it is obvious that it may be used with a pair of dividers as well.

Having thus fully described my invention, what I claim is—

In an instrument of the character described, the combination with the legs, one of which is formed with a circular ear, the plates to which said leg is pivoted, and the other leg also pivoted to said plates and provided at opposite sides of the pivotal point with adjusting-screws, of the friction-shoe impinging against said ear and formed with lugs against which the inner ends of said screws are adapted to bear; substantially as described.

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

AUGUST F. RADANT.

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