

HENRY GERECKE.

Improvement in Dividers.

No. 127,686.

Patented June 11, 1872.

Fig. 2.

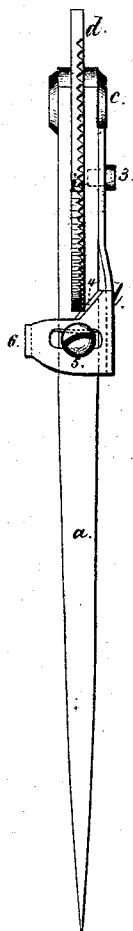
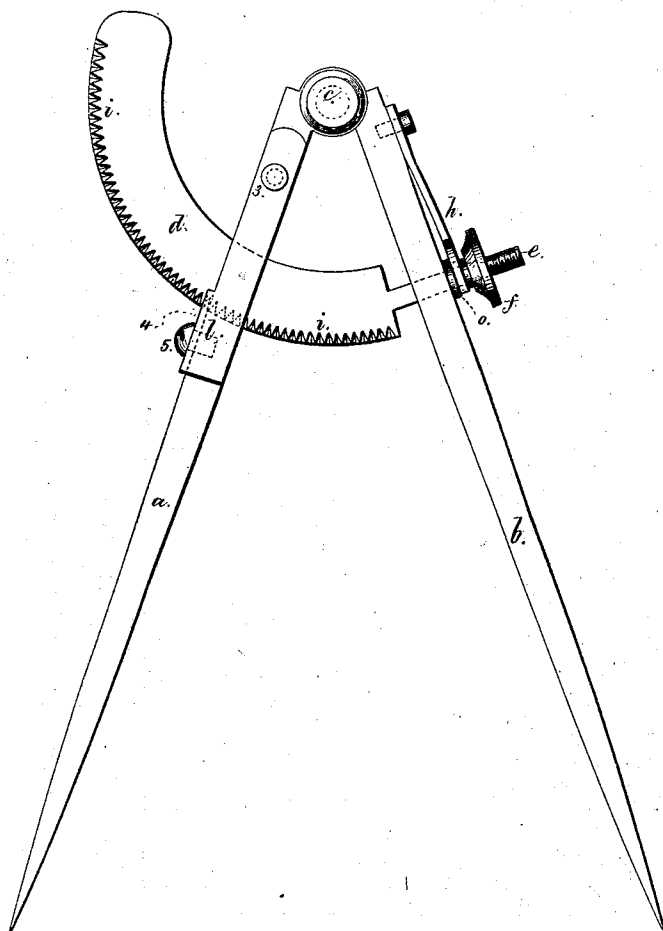


Fig. 1.



Witness.

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HENRY GERECKE, OF CARLSTADT, NEW JERSEY.

IMPROVEMENT IN DIVIDERS.

Specification forming part of Letters Patent No. 127,686, dated June 11, 1872.

To all whom it may concern:

Be it known that I, HENRY GERECKE, of Carlstadt, in the county of Bergen and State of New Jersey, have invented an Improvement in Dividers; and the following is declared to be a correct description of the same.

Dividers have been made with a metallic arc having an adjusting-screw at one end and a clamping-screw to hold the arc at the place where it passes through a mortise in one leg of the dividers. This clamping-screw is liable to work loose and get lost, and it also disfigures the side of the arc, and the adjusting-nut becomes loose and does not hold the parts firmly.

My invention consists in a diagonal spring holding-tooth acting in notches at the edge of the arc to firmly hold the swinging leg of the dividers at any point at which it may be placed, and the adjusting-nut is held by a spring bar and fork acting against a collar to press the nut against the side of the divider-leg and thereby prevent looseness from wear.

In the drawing, Figure 1 is a side view of the dividers, and Fig. 2 is a view of the same edgewise.

The legs *a* and *b* are joined by the hinge *c*, as usual, and the arc *d* is made with a screw-pin, *e*, at one end and notches *i* upon one edge. The nut *f*, for the screw *e*, is made with a shoulder or collar, *o*, above which the fork of the spring-bar *h* passes, and the other end of this bar *h* is fastened to the edge of the leg *b*, and acts to press the base of the nut *f* against said leg, and as this bar is slightly yielding, it will prevent looseness from wear, and the nut will be held firmly to place but allowed to revolve. The diagonal spring holding-tooth *l* is adapted to the notches *i* of the

arc *d*. This tooth *l* is attached to the leg *a* at 3, and the inclined edge 4 enters one of said notches; the screw 5, passing through a slot, serves to hold this tooth, but allows of the same being pressed back by the thumb or finger applied to the projecting end 6, so that the legs of the dividers can be easily opened or closed to near the desired place, and then held by the tooth *l* while being adjusted accurately by the screw and nut *e f*.

In dividers heretofore constructed the spring has acted upon the arc and its screw, instead of against the nut, as in my case; the consequence has been that the power of the spring tends to make the nut and screw wear, and the tension of the spring is varied with the adjustment. This is not the case in my dividers. The spring-holding tooth *l* is stronger, more easily operated, and more reliable than the screw-pawls heretofore used, and the inclined edge acts as a wedge diagonally to the arc to clamp it firmly in the leg.

I claim as my invention—

1. The spring-bar *h*, made with a forked end receiving the neck of the nut *f*, and acting against the collar *o* to press said nut against the leg *b* of the dividers, as and for the purposes set forth.

2. The spring-holding tooth *l* made with the inclined edge 4, projecting end 6, and slot for the screw 5, in combination with the notched arc *d* and dividers *a b*, as and for the purposes specified.

Signed by me this 9th day of September, A. D. 1871.

HENRY GERECKE.

Witnesses:

GEO. T. PINCKNEY,
CHAS. A. SMITH.