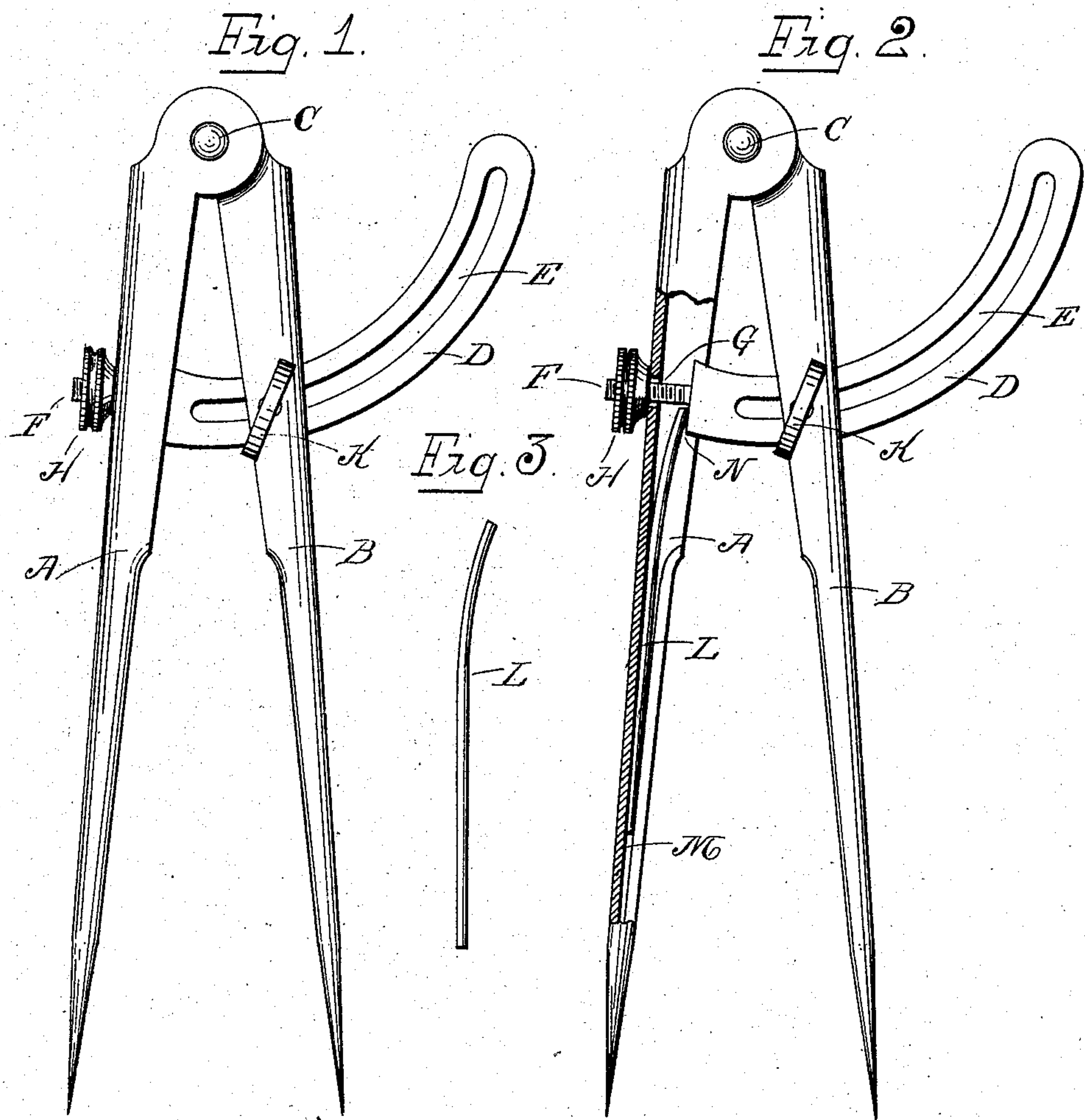


No. 806,627.

PATENTED DEC. 5, 1905.

W. A. BERNARD.
DIVIDERS.

APPLICATION FILED SEPT. 25, 1905.



Witnesses

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UNITED STATES PATENT OFFICE

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DIVIDERS.

No. 806,627.

Specification of Letters Patent.

Patented Dec. 5, 1905.

Application filed September 25, 1905. Serial No. 280,002.

To all whom it may concern:

Be it known that I, WILLIAM A. BERNARD, of the city and county of New Haven, State of Connecticut, have invented new and useful
5 Improvements in Dividers, of which the following is a full, clear, and exact description when taken in connection with the accompanying drawings, which form a part thereof, and in which—

10 Figure 1 represents a side elevation of a divider embodying the invention; Fig. 2, a similar view, one of the legs of the divider being shown broken away; and Fig. 3, a detail view of the spring.

15 In all figures similar letters of reference represent like parts.

20 This invention relates to dividers, and has for its object the production of a divider simple in manufacture, easily assembled, and efficient in operation.

To this end the invention consists of a novel form of spring for the nice adjustment of the dividers. The spring which bears against the wing of the divider is held in place by having
25 one end inserted into the narrow tapered interior near the point of the leg of the divider.

For a better understanding of the invention reference is had to the accompanying drawings, in which the parts designated by the
30 letters A and B represent the divider-legs, which are pivoted together by the fulcrum-pin C. The legs are formed U-shaped, and at the free ends the sides are turned inward to meet on a longitudinal line and the legs
35 pointed in well-known manner. As the leg is tapered toward the point, the hollow interior becomes narrower toward the point.

D designates the wing of the divider, which may be provided with a longitudinal slot E
40 and at one end with a screw F, projecting through an opening G in the back of the leg A. A nut H is shown on the screw F, and a thumb-screw K is adapted to engage the other divider-leg B and clamp the wing thereto by
45 projecting through the slot E of the wing D.

L designates a spring which may be formed, as more particularly shown in Fig. 3, of a wire or rod, the lower end of which projects downward toward the point of the leg A and is held in place by being forced into the narrow
50 hollow tapering interior M of the leg formed by the turning in of the sides, as more particularly shown in Fig. 2. The upper end of the spring L is adapted to bear against a shoulder N on the wing D.

55 In operation when the pointed ends of the divider-leg are adjusted substantially to their proper position the screw K is screwed home to clamp the wing D on the leg B. The leg A may then be more accurately adjusted by
60 screwing the nut H on the screw F against the tension of the spring L, so that the leg will assume the exact position desired.

The spring L is simply formed and is easily assembled by forcing its lower end into the
65 interior M of the leg until it is held tightly therein, when the upper end may be cut off at a proper height to engage the shoulder N. Any nicety of construction of the spring is obviated and the use of rivets to hold it in
70 place avoided.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

75 In dividers, or similar articles, the combination with a leg formed with a hollow interior narrowing toward the point of the leg; of a wing; a spring having one end projecting toward and tightly held within the hollow interior near the point of the leg, and the
80 other end bearing against the wing, substantially as described.

In witness whereof I have hereunto set my hand on the 14th day of September, 1905.

WILLIAM A. BERNARD.

Witnesses:

M. OLIVE WILLIAMS,
SAMUEL H. FISHER.