

S. L. FOX.

Lead-Holder for Dividers.

No. 162,048.

Patented April 13, 1875.

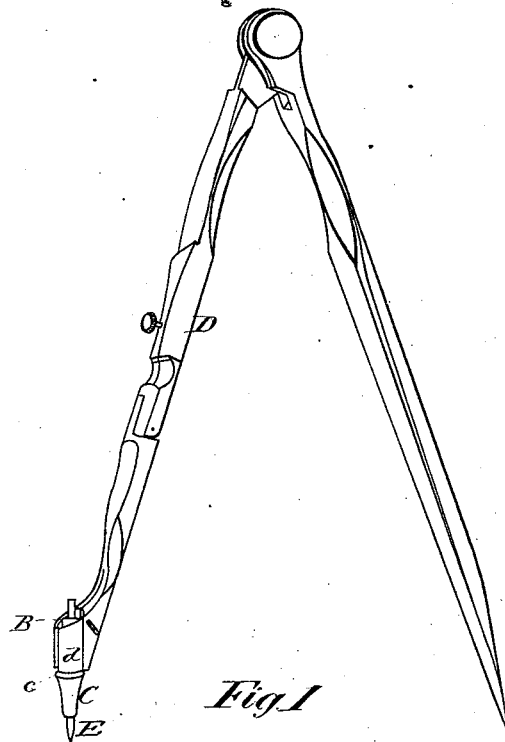


Fig. 1

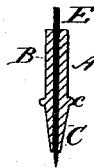


Fig. 2

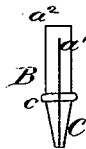


Fig. 3

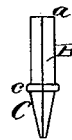


Fig. 4

Witnesses
S. J. Van Starom
Jos. B. Connolly

By

S. L. Fox Inventor
Connolly Bros

Attorneys

UNITED STATES PATENT OFFICE.

SAMUEL L. FOX, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN LEAD-HOLDERS FOR DIVIDERS.

Specification forming part of Letters Patent No. **162,048**, dated April 13, 1875; application filed December 8, 1874.

To all whom it may concern:

Be it known that I, SAMUEL L. FOX, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Lead-Holder for Drawing-Dividers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a perspective of a pair of dividers with my improvement applied. Fig. 2 is a vertical longitudinal section. Figs. 3 and 4 are side elevations.

My invention consists of a short tube of metal, having a bore adapted to receive the leads at present usually supplied for drawing-dividers. This tube is split vertically on both sides, the split or incision on one side extending all the way from the top to the bottom of the tube, while that on the other side terminates a short distance below the top or upper extremity. The upper section of this tube is cylindrical in form, being designed to fit in the clamp, which usually terminates one leg of the dividers, and the lower section or point is tapering or conical. Between said upper and lower sections is an annular shoulder, against which the lower edge of the clamp on the dividers impinges when the holder is in position for use.

A in the drawing represents a thin metallic tube having a split or incision, *a*, on one side extending through the metal from top to bot-

tom, and a similar slit, *a*¹, on the opposite side, leaving the part *a*², to prevent the tube from being wholly divided. B represents the upper part of the tube, cylindrical in form, and adapted to fit in the clamp *d*, which terminates the leg of the dividers D. C is the lower end or point of the holder, between which and the part B is an annular ridge or shoulder, *c*, against which the lower edge of said clamp *d* impinges when the holder is in position.

The operation is as follows: A lead, E, of any appropriate or approximate size is inserted in the holder, whose split sides will expand, if required, to receive it, the elasticity of the metal when thus expanded exerting a compression on the lead sufficient to hold it securely in place. The cylindrical end B of the tube is then inserted in the clamp *d* and made fast therein by the customary screw, which, while it holds the tube in place, also binds the lead firmly in the holder.

What I claim as my invention is—

The lead-holder for drawing-dividers, herein described, consisting of a split metallic tube having a tapering point terminating in a shoulder, *c*, said lead-holder constituting a new article of manufacture, substantially as set forth and illustrated.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of November, 1874.

SAMUEL L. FOX.

Witnesses:

JNO. A. BELL,
M. DANL. CONNOLLY.