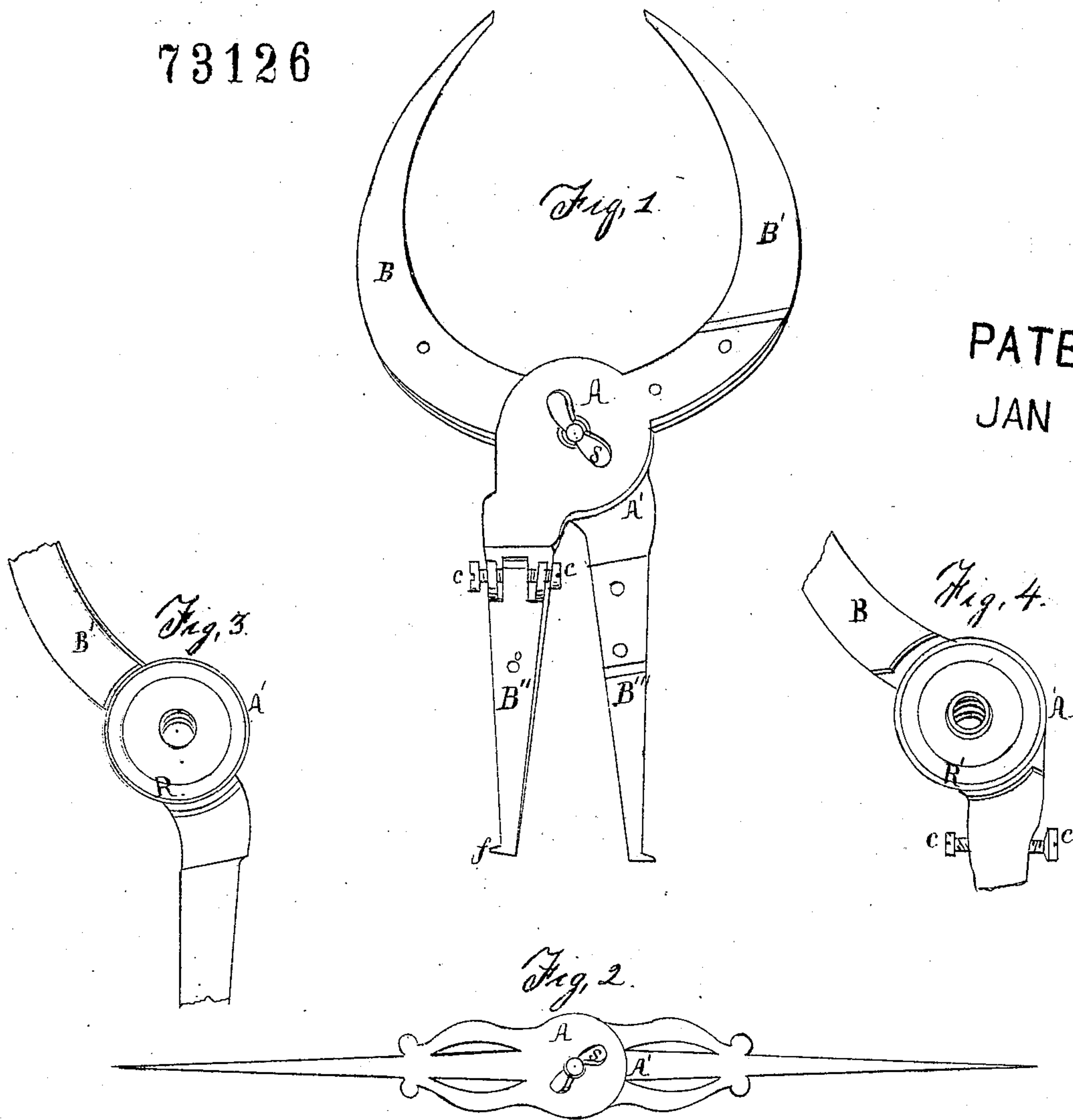


73126



PATENTED  
JAN 7 1868

*Insts. in Calipers or Dividers.*

By *Elphalet H. Safford*  
Inventor.

Witnesses  
{ *James P. McLean* }  
{ *John R. Conner* }

# United States Patent Office.

ELIPHALET S. SCRIPTURE, OF BROOKLYN, NEW YORK.

*Letters Patent No. 73,126, dated January 7, 1868.*

## IMPROVEMENT IN DIVIDERS AND CALIPERS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, ELIPHALET S. SCRIPTURE, of the city of Brooklyn, in the county of Kings, and State of New York, have invented certain novel and useful Improvements in the Mode of Constructing Calipers, Dividers, or Compasses; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which are lettered to correspond with and form a part of the specification.

To enable the public to understand the nature of my invention, and those who are skilled in the manufacture thereof to construct the same, I will describe it as follows:

Figure 1 represents a pair of calipers; A is the head; B B' B'' B''' are the legs; *c* is a small set-screw, which slightly moves the adjustable leg B'' upon the fulcrum or pin *a*, when required to move the foot; *s* is a set-screw which secures and regulates the two head-plates A A'.

Figure 2 is a pair of universal dividers, provided with braces 1 2 3 4 to strengthen the legs, as well as to give the draughtsman more perfect control over the instrument. The inner surfaces or disks of the head A are provided with a circular wedge-shaped rib, R, and corresponding groove, R', as shown at figs. 3 and 4. This rib R fits into the groove R', and when the two sections of the head A and A' are secured together by the set-screw *s*, a greater amount of friction is brought to bear upon the inner disks or corrugated faces of the circular plates forming the head of the dividers or calipers.

The superiority of the above arrangement over the ordinary compasses or calipers that are in common use, is, first, the joints or head of the dividers may be made as shown at fig. 2, so that either leg will revolve entirely around upon the set-screw *s*; at the same time the foot *f* may be held at any fixed angle by means of the said screw, and also the screw *c* in the adjustable leg B'', fig. 1; secondly, by means of the rib R and groove R', upon the inner disks or faces of the head-plates A A', I am enabled to produce a truer arch, and more firmly secure the head-plates A A' in their proper places, by means of a screw, S, notwithstanding the wear of the instrument, and, by means of the braces 1 2 3 4, I strengthen the legs, and have better control of the compasses.

The novelty of my invention does not consist in the use of set-screws *s* to hold the foot of the dividers, calipers, or compasses at any fixed point, but my invention is the mode of increasing the cohesive attraction of the revolving plates, by means of ribs and grooves R and R', upon the inner disks or faces of the head of universal or other dividers, secured by means of set-screws or other suitable devices; also, the adjustable leg B'' of the calipers. Therefore,

What I claim as novel and useful, and what I wish to secure by Letters Patent of the United States, is—

1. The wedge-shaped circular rib R and groove R', secured by a set-screw, *s*, or an equivalent thereof, for the purpose substantially as described.

2. I claim adjusting the leg B'' of the caliper, by means of a set-screw, *c*, in the manner as above set forth, and shown in the drawings at fig. 1.

3. I claim a universal divider, with braces 1 2 3 4, and having the inner surfaces or disks of the head A corrugated, or ribbed and grooved, as shown at figs. 3 and 4, for the purpose as above set forth.

In testimony whereof, I hereunto subscribe my name in the presence of two witnesses.

ELIPHALET S. SCRIPTURE.

Witnesses:

JAMES P. McLEAN,  
JOHN R. CONNER.