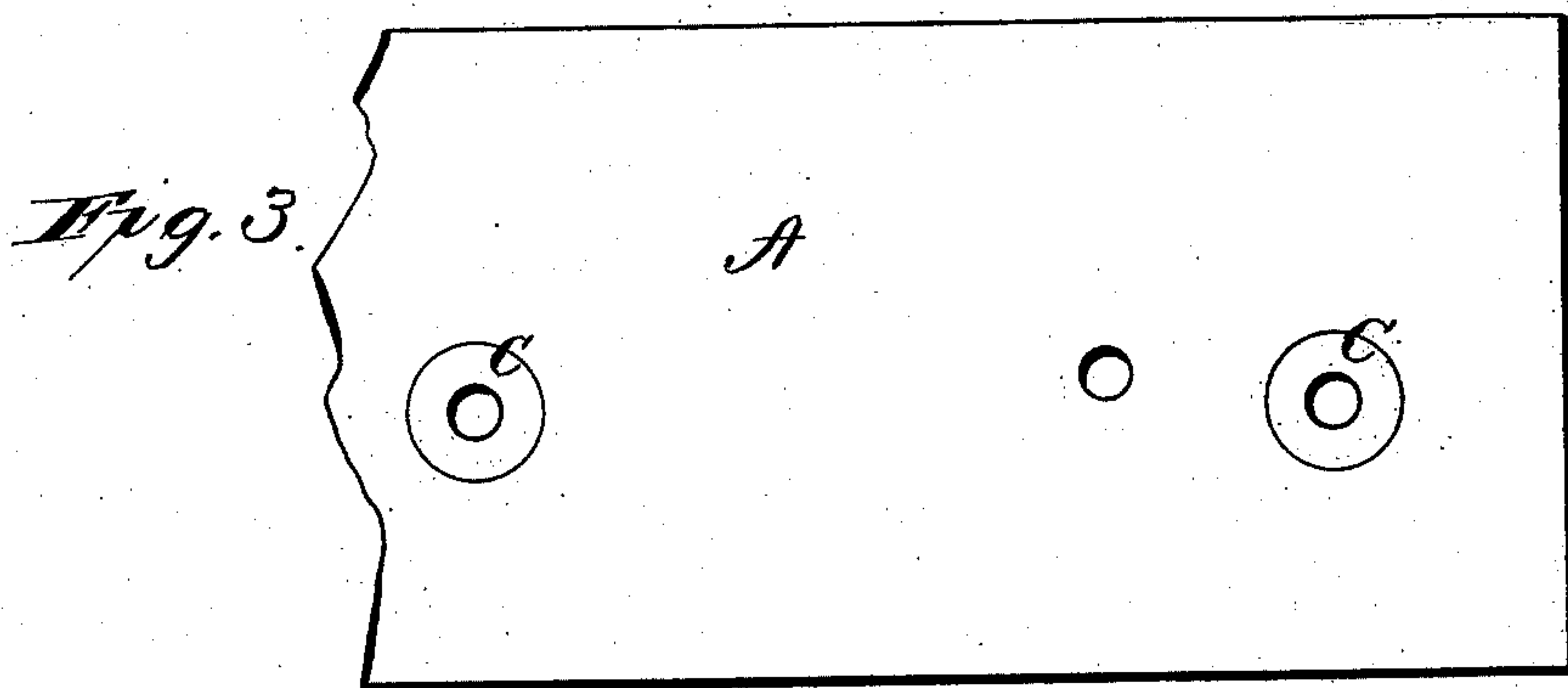
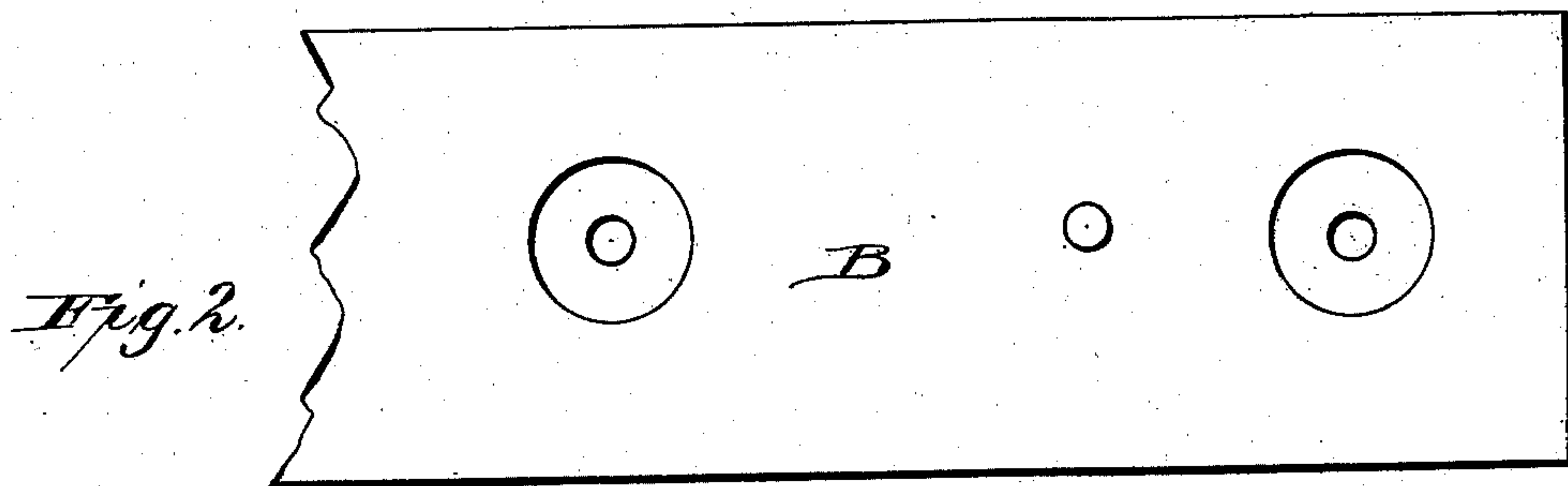
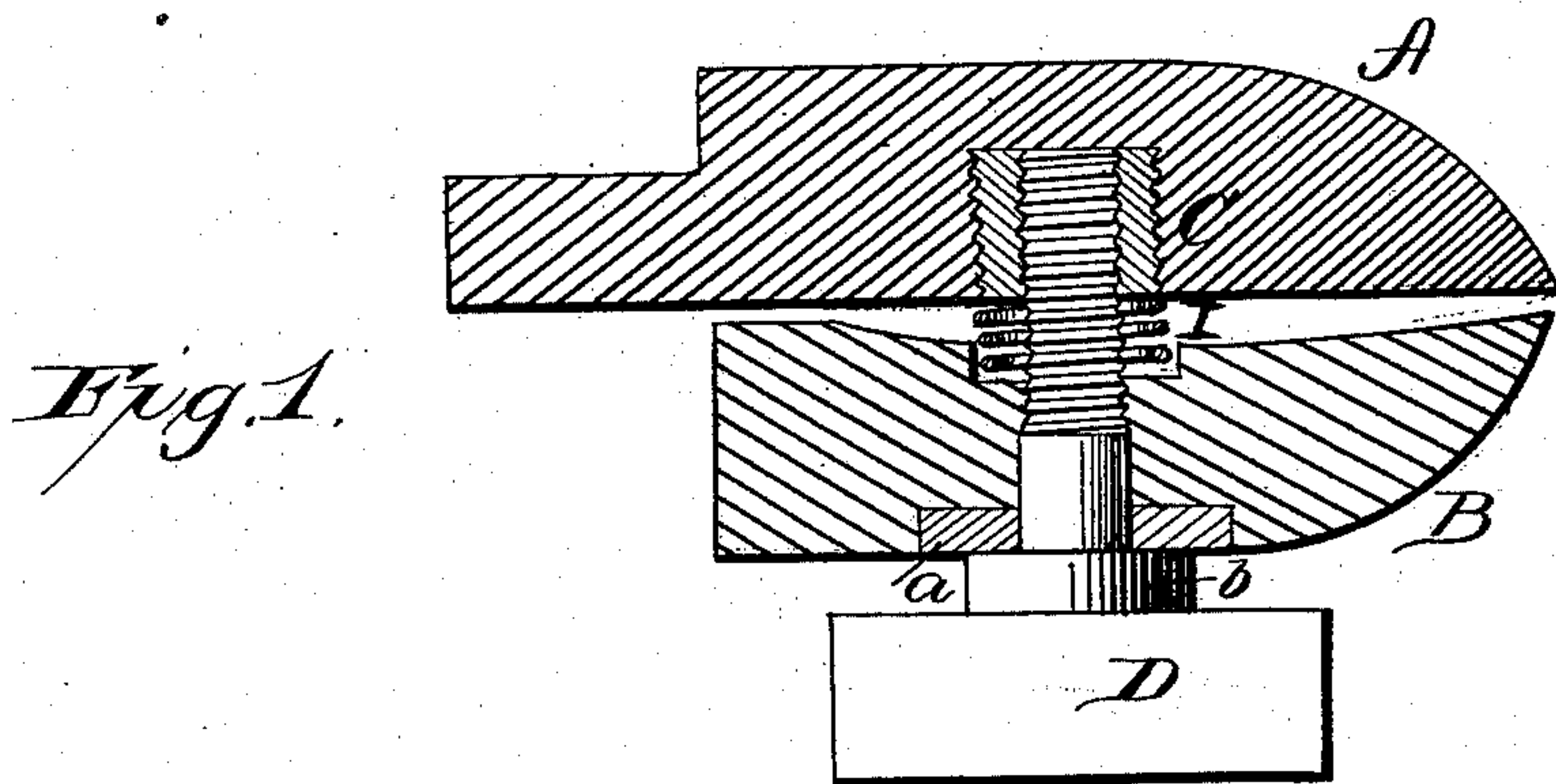


(No Model.)

W. O. HICKOK.  
Pen Clamp-Bar for Ruling-Machines.

No. 228,072.

Patented May 25, 1880.



Witnesses:

F. L. Curand

Chas. L. Evert.

Inventor:

W. O. Hickok  
By Alexander Mason  
attys.

# UNITED STATES PATENT OFFICE.

WILLIAM O. HICKOK, OF HARRISBURG, PENNSYLVANIA.

## PEN-CLAMP BAR FOR RULING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 228,072, dated May 25, 1880.

Application filed March 19, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM O. HICKOK, of Harrisburg, in the county of Dauphin, and in the State of Pennsylvania, have invented certain new and useful Improvements in Pen-Clamp Bars for Ruling-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to pen-clamps for paper-ruling machines; and it consists in the devices for uniting the two jaws of the clamp, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a cross-section of a pen-clamp embodying my invention. Figs. 2 and 3 are inside views of the two jaws composing the clamp.

A represents the upper, and B the under, jaw of a pen-clamp such as are used in paper-ruling machines.

In the upper jaw, A, at suitable intervals, are screwed metallic sleeves or nuts C, which extend from the under surface upward for a suitable distance without going entirely through the wood. These sleeves or nuts are tapped to receive set-screws D, which are passed through corresponding holes in the lower jaw, B. In the under side of this jaw, surrounding the holes for the set-screws, are let in metal plates *a*, as shown particularly in Fig. 1. A shoulder or offset, *b*, on each set-screw D bears against one of these plates when the jaws are clamped together.

A spring, I, surrounds each set-screw within a recess in the lower jaw to separate the jaws when the set-screws are loosened.

In the ordinary way of clamping the jaws the bolt goes clear through the clamp, the head being countersunk in the wood. The ink would sometimes follow this bolt down into the inside of the clamp, and not only destroy the same, but ink of one color would mix with that of another color, because one ink would naturally work through the hole in the top part of the clamp, and remaining there would mix with the next color of ink used. Also, putting this countersunk head in the wood had a tendency to weaken the same. These difficulties are entirely obviated by my invention. There being no countersunk heads on the face of the upper part of the clamp, no ink can get in, and it also makes the clamp lighter and stronger.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a pen-clamp for paper-ruling machines, the combination of the jaws A B, the sleeve or nut C, having both interior and exterior screw-threads, the set-screw D, and spring I, all constructed and arranged to operate substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of March, 1880.

WILLIAM O. HICKOK.

Witnesses:

S. SCHRIVER,  
D. C. MAURER.