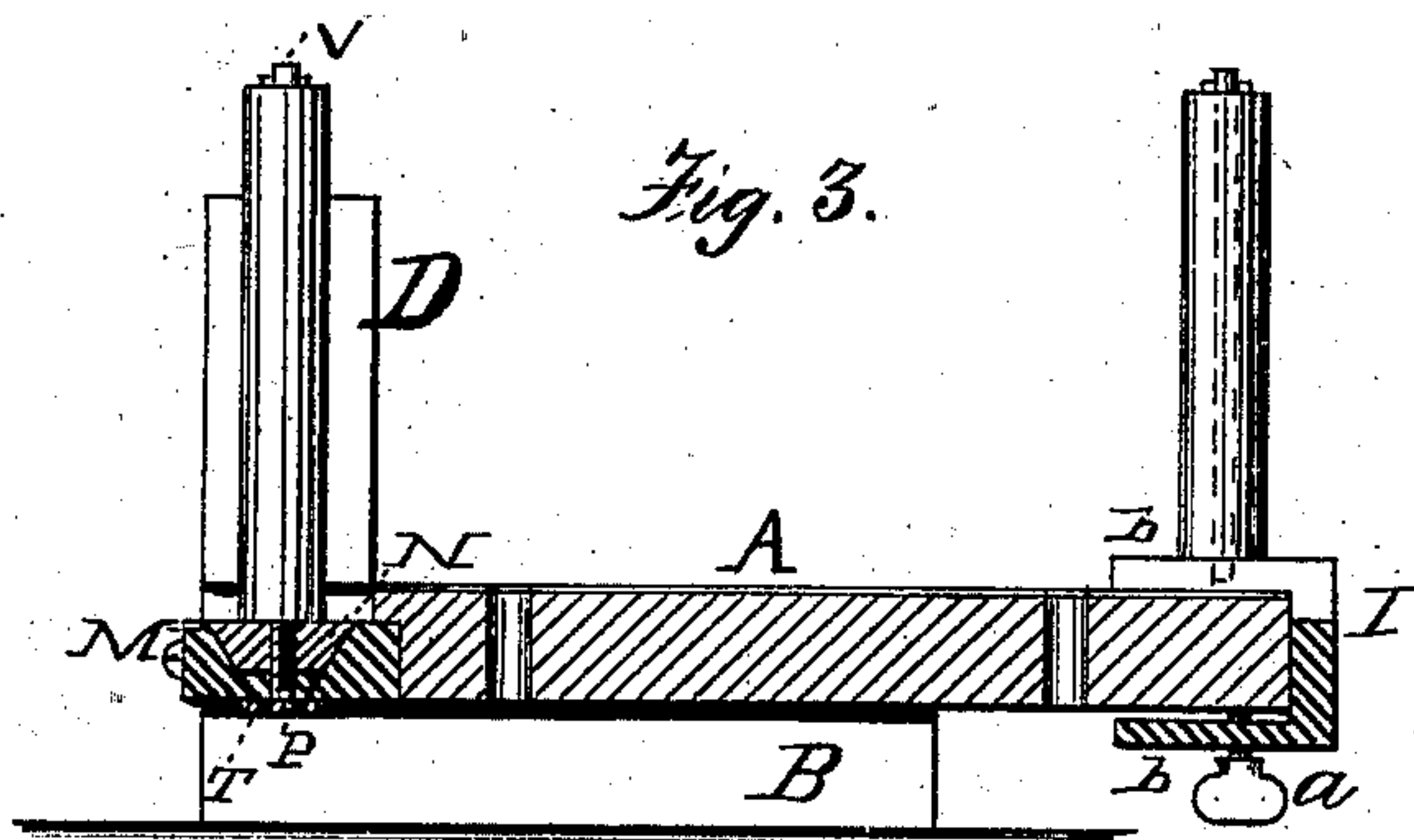
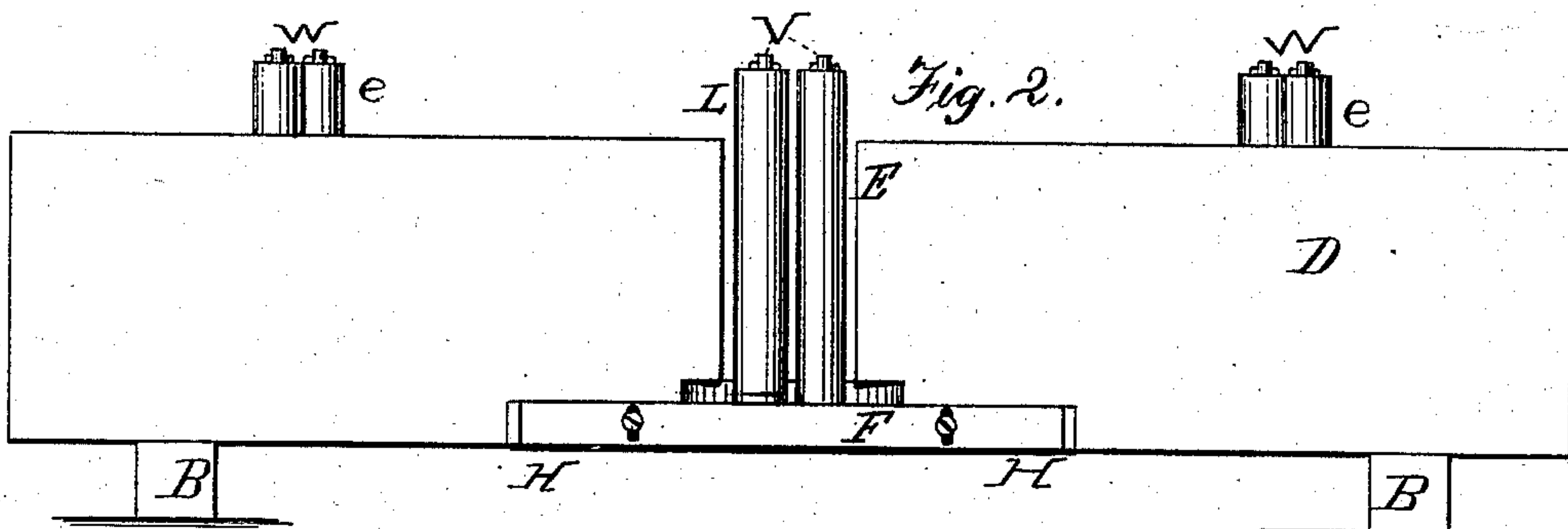
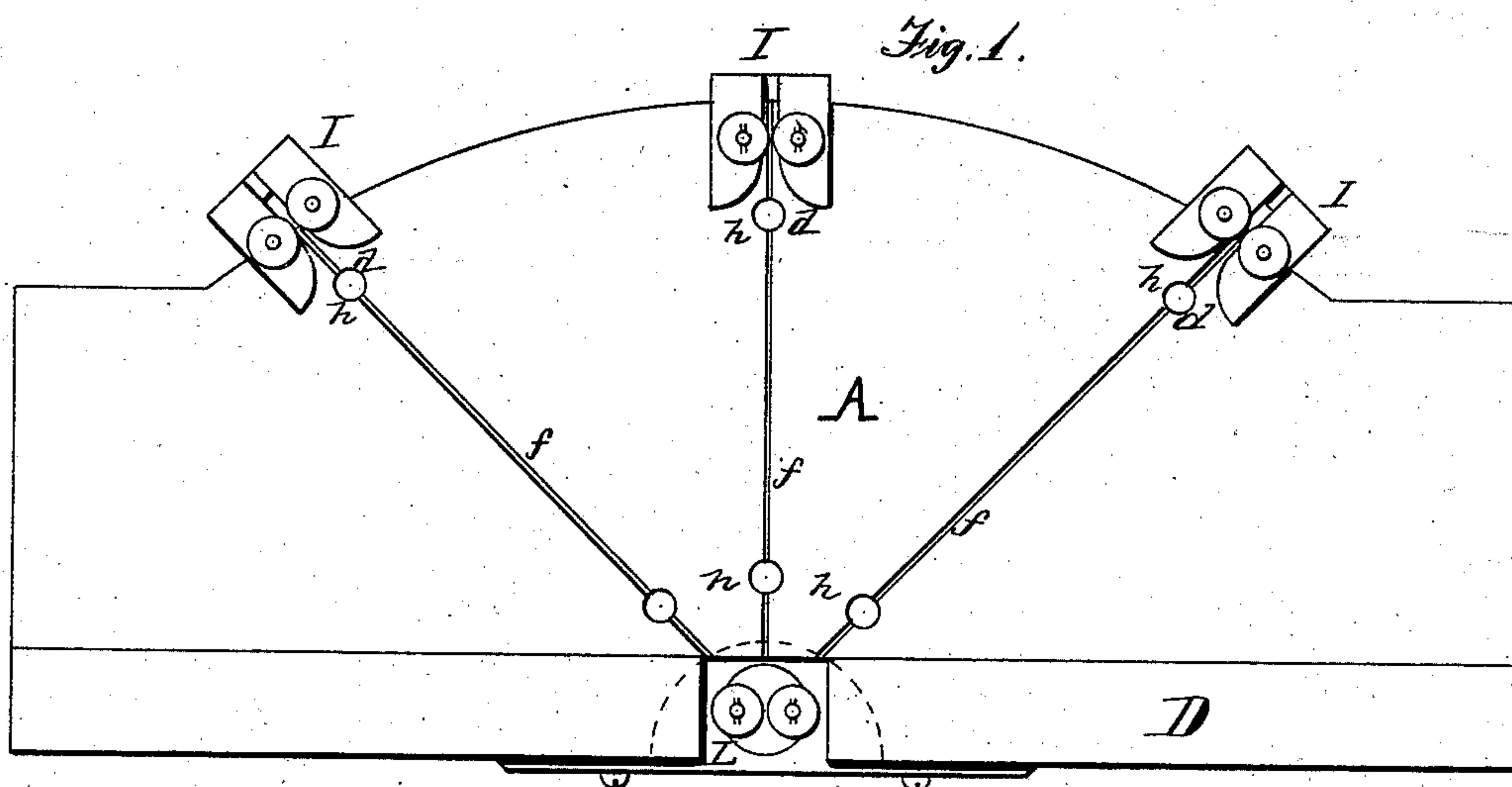


J. M. JONES.  
MITER-BOX.

No. 187,712.

Patented Feb. 27, 1877.



Witnesses  
Grenville Lewis  
Chas. C. Hill.

Inventor  
James M. Jones  
by his Attys.  
Cox & Co.

# UNITED STATES PATENT OFFICE.

JAMES M. JONES, OF LAWRENCE, KANSAS, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO HENRY WARREN HOWE, OF SAME PLACE.

## IMPROVEMENT IN MITER-BOXES.

Specification forming part of Letters Patent No. 187,712, dated February 27, 1877; application filed  
August 23, 1876.

*To all whom it may concern:*

Be it known that I, JAMES M. JONES, of Lawrence, in the county of Douglas and State of Kansas, have invented a new and useful Improvement in Miter-Boxes, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improvement in miter-boxes, and consists in the mechanism hereinafter specifically designated, its object being to provide an adjustable device for mitering purposes.

Figure 1 is a plan view of a device embodying the elements of the invention. Fig. 2 is a rear view of same. Fig. 3 is a central vertical transverse section of same.

In the accompanying drawings, A represents a bed-plate or base resting upon the cleats B, and provided on its rear end with the backing D, which is provided at about its vertical center with the slot E, adjacent to which the bed-plate A is cut away to receive the plate or stand F, secured in position by rivets or set-screws passing through elongated apertures or slots formed in the lugs H, so that the plate can be slightly raised or lowered, as occasion requires.

The bed-plate A may be of any suitable configuration, but it is preferred to have the contour of the front edge either oval or circular, as by the use of this form the adjustable shoes or clamps I can be more readily brought to line with the swiveled rollers L, and thus facilitate the operator in obtaining the desired angle.

Immediately below the center of the slot E the plate F is provided with an aperture, M, the sides of which correspond with the superficies of the cone-shaped swivel N, retained in position in the aperture by its peculiar configuration, and also by the screw P and washer T.

Upon the upper surface of the swivel N are rigidly secured the standards V, which are placed a suitable distance apart, and provided with the rollers L. These rollers are loosely mounted upon the standards V, so as to have a rotary movement thereon, and thus facilitate the passage of the saw between them.

The clamps I are secured at suitable points

upon the front edge of the bed-plate A by the set-screws *a* and lips *b*, and are provided with the slots *d*, which are cut in the upper lip *b*, so as to prevent the saw from becoming injured by striking the metal.

Upon the upper surface of the upper lip *b*, one on each side of the slot *d*, are loosely placed, upon the rigidly-secured standards W, the rollers *e*, which may be constructed of rubber, wood, or any desired material, and are similar, in all respects, to the rollers L.

In the present instance three clamps, with their rollers, are employed, but it is obvious that one only need be used, as it can be set at any suitable point opposite the rollers L to obtain the angle desired, the other two clamps being furnished more for convenience than positive requirements.

The standards V, being rigidly secured upon the swivel N, the rollers L may be turned so as to face either of the rollers *e*, and thereby permit the saw, when in operation, to be placed in the space between the rollers L and rollers *e*, thus preventing it from making an untrue or improper cut in the material placed on the bed A between the rollers *e* and backing D.

In the slots or grooves *f* cut in the bed-plate A are provided the apertures *h*, in which pins may be driven and replaced for the purpose of preserving the bed-plate from the effects of the saw.

What I claim as my invention, and desire to secure by Letters Patent, is—

The slotted clamps I, provided with the standards W and rollers *e*, in combination with the stand F, swivel N, provided with the standards V and rollers L, and bed-plate A, all constructed to operate in the manner shown and described, and for the purpose specified.

In testimony that I claim the foregoing improvement in miter-boxes, as above described, I have hereunto set my hand this 9th day of August, 1876.

JAMES M. JONES.

Witnesses:

THOMAS H. KENNEDY,  
JOHN P. ROSS.