

T. W. WISNER.

Try Square.

No. 36,977.

Patented Nov. 18, 1862.

Fig. 1.

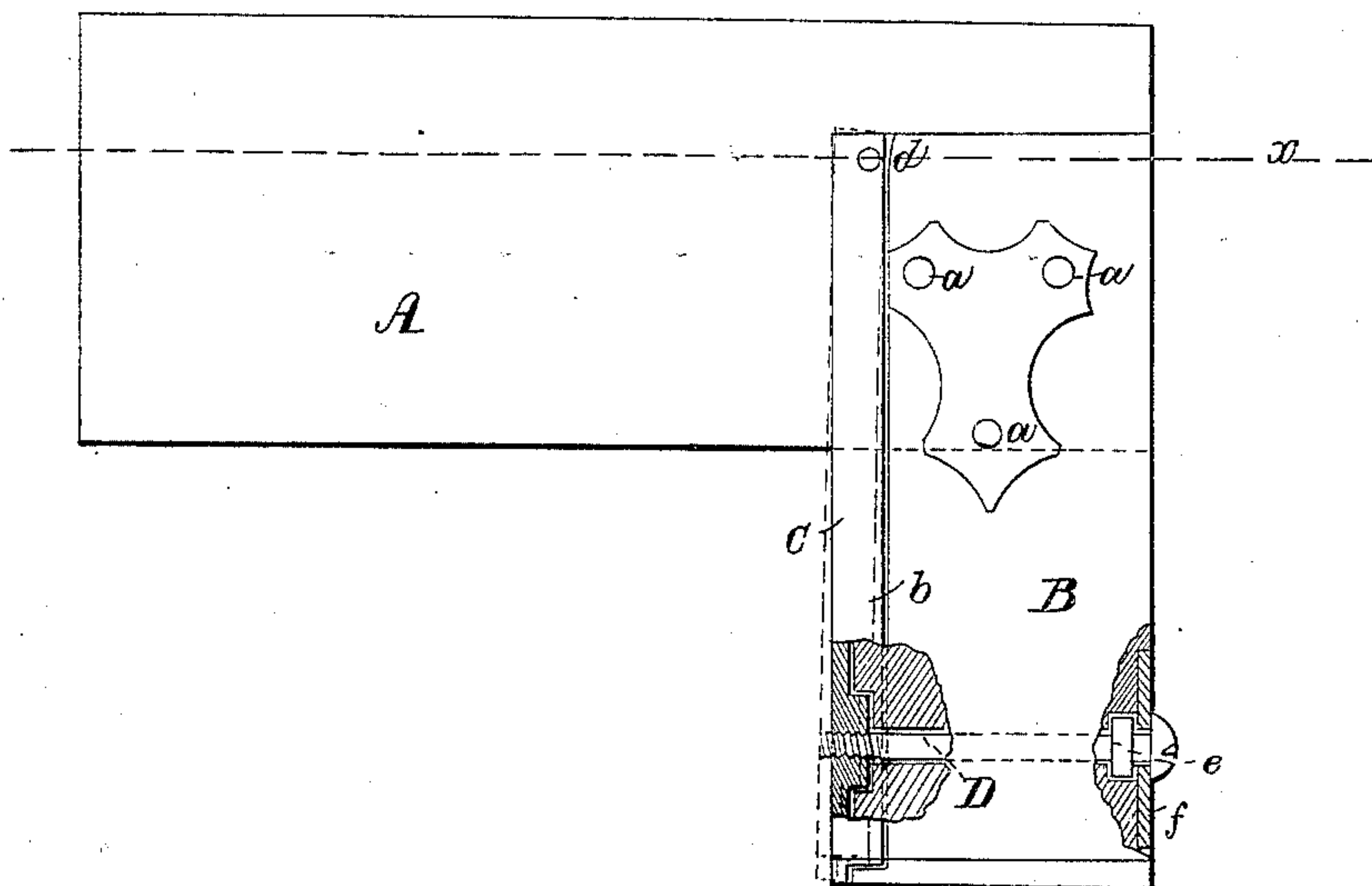
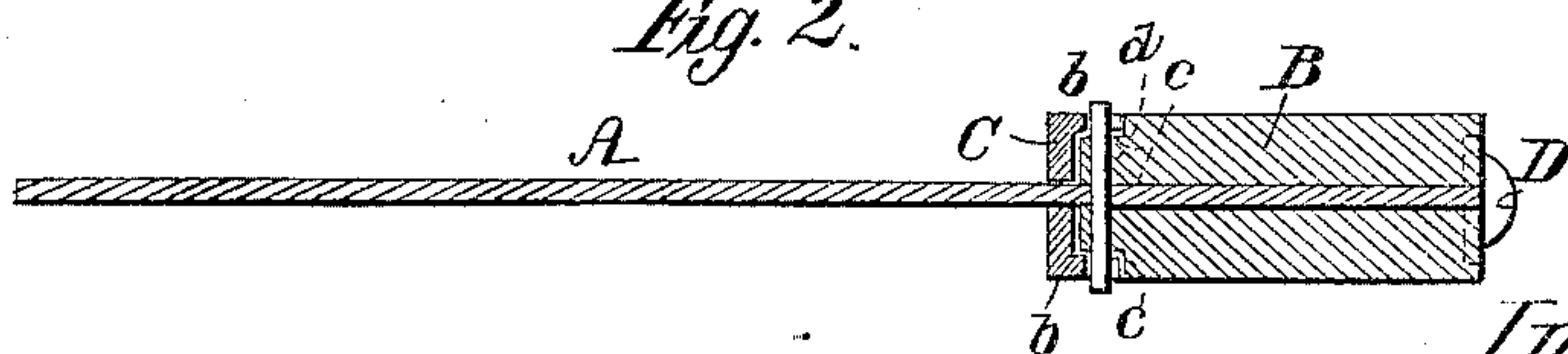


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

T. W. WISNER, OF OSCEOLA, MICHIGAN.

IMPROVEMENT IN TRYING-SQUARES.

Specification forming part of Letters Patent No. 36,917, dated November 18, 1862.

To all whom it may concern:

Be it known that I, T. W. WISNER, of Osceola, in the county of Livingston and State of Michigan, have invented a new and Improved Trying-Square; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2, a section of the same, taken in the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to a new and useful improvement in trying-squares, such as are used by joiners and other workers in wood for testing surfaces which are designed to be at right angles with each other.

The object of the invention is to obtain a simple means for keeping the square perfectly true, so that the blade of the square will always be at right angles with the face-plate of the stock.

To this end the invention consists in having the face-plate of the stock arranged in such a manner that it may be adjusted to compensate for any variation that might occur between the blade and stock.

To enable those skilled in the art to fully understand my invention, I will proceed to describe it.

A represents the blade of the square, which is constructed, as usual, of steel-plate, and B is the stock, constructed of wood, the blade and stock being connected together at right angles by rivets *a*. These parts are arranged in the ordinary way, and therefore do not require a minute description.

C represents a metal face-plate, which is applied to the inner edge of the stock B. This face-plate is provided at each edge with a lip or flange, *b*, and these lips or flanges project at right angles from the face-plate and fit in the rabbets *c* in the sides of the stock, as shown clearly in Fig. 2. The upper end of the face-plate C is attached to the blade A by means of a pin, *d*, and D is a

screw, which passes through the stock B and into the lower part of the face-plate C, the latter having a hole in it provided with an internal screw to receive the end of the screw D, as shown clearly in Fig. 1. The screw D has a shoulder or collar, *e*, upon it, which bears against the inner side of a metal plate, *f*, attached to the lower part of the stock, as shown clearly in Fig. 1. By turning the screw D, it will be seen that the face-plate C may be adjusted in or out from the stock B, the former working on the pin *d*. This will be fully understood by referring to Fig. 1, in which the face-plate is shown in tint as being adjusted snugly to the stock, and shown adjusted out from it in red outline.

From the above description, therefore, it will be seen that in case the plate A and the stock B get out of a proper relative position with each other, (a right angular one,) they may be readily adjusted in proper position by turning the screw D so as to bring the outer surface of the face-plate C at right angles with the blade A. Trying-squares, even if made true or correct, are very liable to get incorrect or untrue from the shrinking and warping of the handle and other causes. This difficulty is fully obviated by my invention. It will be seen that the stock B is never changed in position, for it always remains permanently attached to the blade A. The shifting of the face-plate C is all the adjustment that is necessary in order to render the square perfectly true. If the stock B were made adjustable it would be liable to slip or move casually and render the implement very unreliable.

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

The adjustable face-plate C, applied to the stock B of the square, substantially as shown, and operated by the screw D, or its equivalent, for the purpose specified.

T. W. WISNER.

Witnesses:

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