(No Model.)

W. A. GABRIEL.

TRY SQUARE.

No. 296,157. Patented Apr. 1, 1884.

Fig. 1

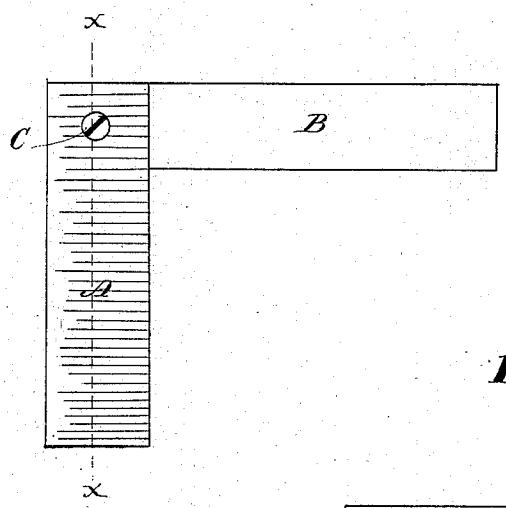


Fig. 2

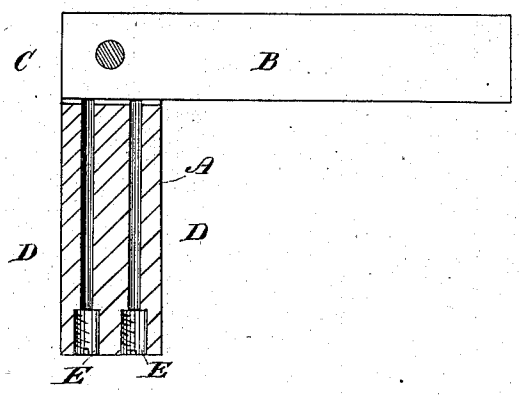
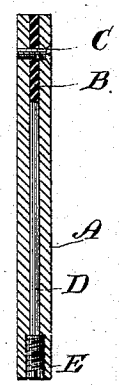


Fig. 3



Witnesses:
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UNITED STATES PATENT OFFICE.

WILLIAM A. GABRIEL, OF BRIDGEPORT, CONNECTICUT.

TRY-SQUARE.

SPECIFICATION forming part of Letters Patent No. 296,157, dated April 1, 1884.

Application filed August 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. GABRIEL, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Try-Squares; 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 appertains to make and use the same.

My invention relates to certain novel and useful improvements in try-squares, and has for its object to provide such a device as shall be capable of adjustment, whereby the trueness of the square may always be insured, while at the same time the construction shall be simple and economical; and with these ends in view my invention consists in the details of construction and combination of elements hereinafter fully and in detail explained, and then specifically designated by the claims.

In order that those skilled in the art to which my invention appertains may more fully understand its construction and operation, I will proceed to describe the same in detail, referring by letter to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a view illustrating the appearance in a completed form of my improvement; Fig. 2, a view with the arm in section, showing the method of adjustment by means of which the blade is brought into the proper position; and Fig. 3, a section taken at the line *x x* of Fig. 1.

Similar letters denote like parts in the several figures of the drawings.

A is the arm, and B the blade pivoted within said arm, as seen at C, a slight play being allowed for the purpose of the adjustment of the blade. Extending longitudinally through the arm are small holes, into which wires D are passed in such manner as to abut against the edge of the blade B.

E E are set-screws, which are inserted within said holes against the wires, and by the operation of which said wires may be forced against the blade more or less, as the case may be.

The operation of my improvement is as follows: When the blade is out of true, the set-screws are loosened or tightened, as the occasion demands, and the angle which the blade forms with the arm thereby varied until the correct relative position of said arm and blade is arrived at.

Great annoyance and trouble have heretofore been occasioned by the difficulty experienced in keeping squares perfectly true; and, moreover, the mere dropping of the square on the floor will occasion injurious results. By the use of my improvement this disadvantage is readily overcome and the square kept perfectly true. By increasing the play of the blade within the arm the scope of the adjustment of the blade may be increased, and this is advantageous when it is not desirable that the latter shall form a right angle with the arm.

I am aware that squares have been made heretofore in which a pivoted blade was adjusted by set-screws, to which access was had by removing the side of the handle. This is all done away with in my invention. The handle or arm is made of a solid piece of metal and set-screws placed at the end, which bear against wires extending through the handle. In my improved construction the set-screws do not come in contact with the blade, and as the wires are not rotated the wear is all upon the end which does not touch the blade. The flat ends of the wire only act on the blade, thus giving a delicacy of adjustment not heretofore attained, as well as simplicity of construction, ease of management, and great durability.

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

1. In a try-square, the blade pivoted within the arm, in combination with the independent wires passed longitudinally through said arm, and set-screws abutting against said wires, substantially as set forth.

2. In a try-square, the combination of the arm A, wires D, set-screws E, and blade B, pivoted within said arm, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM A. GABRIEL.

Witnesses:

F. W. SMITH, Jr.,

S. S. WILLIAMSON.