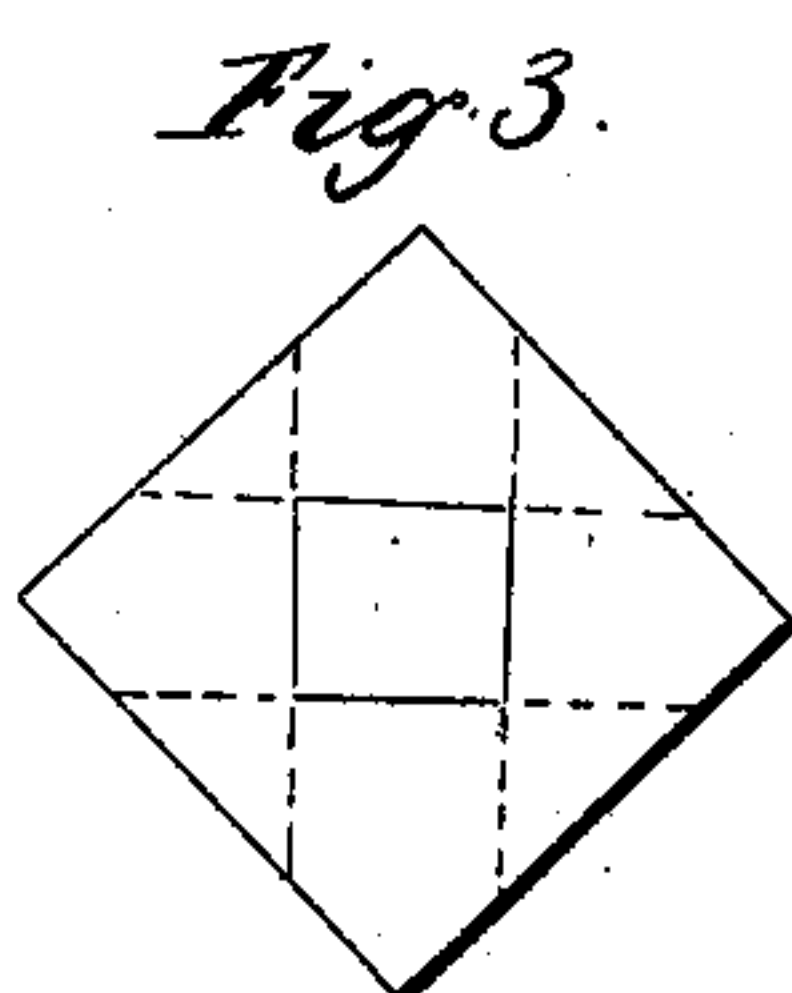
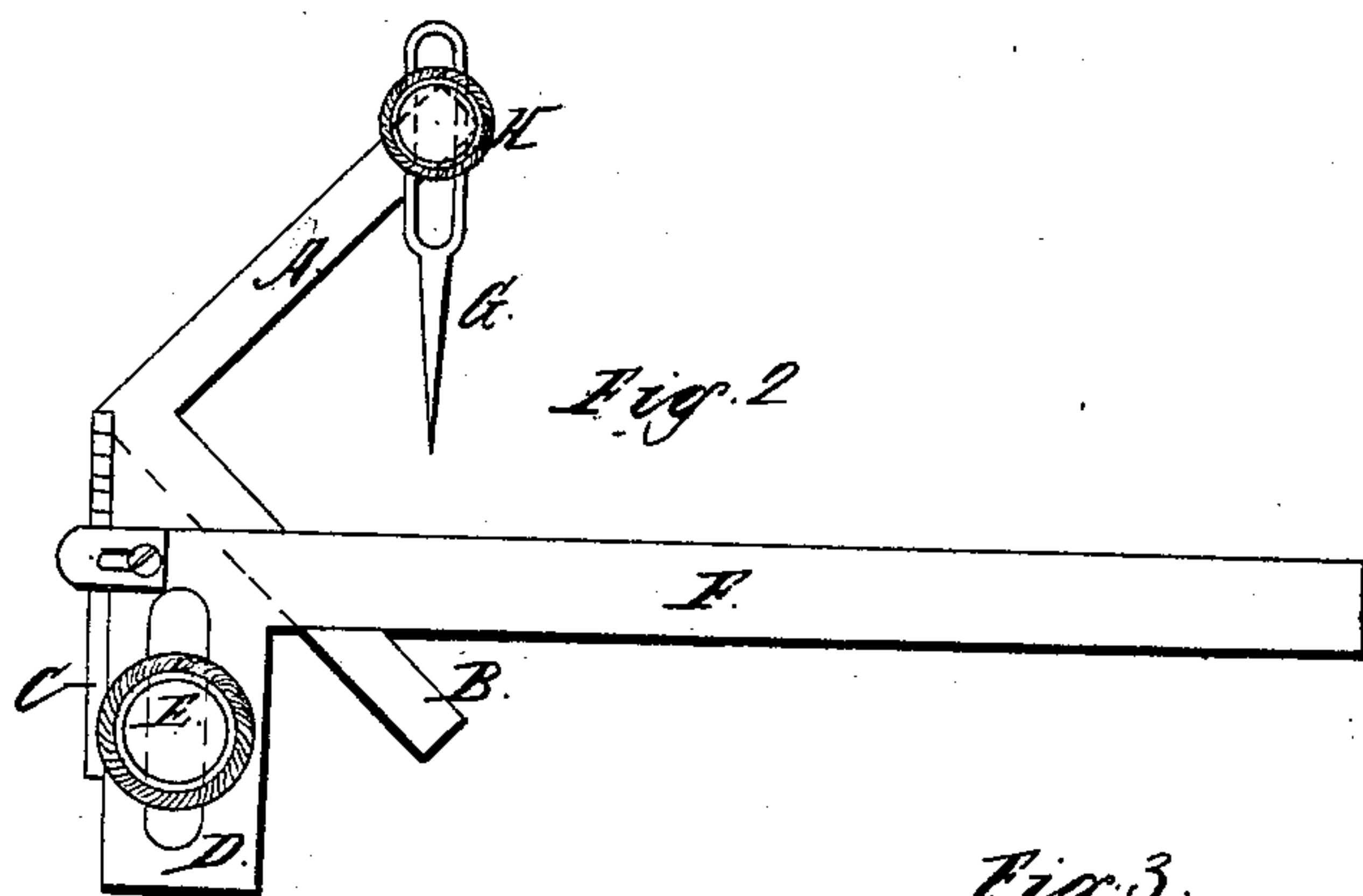
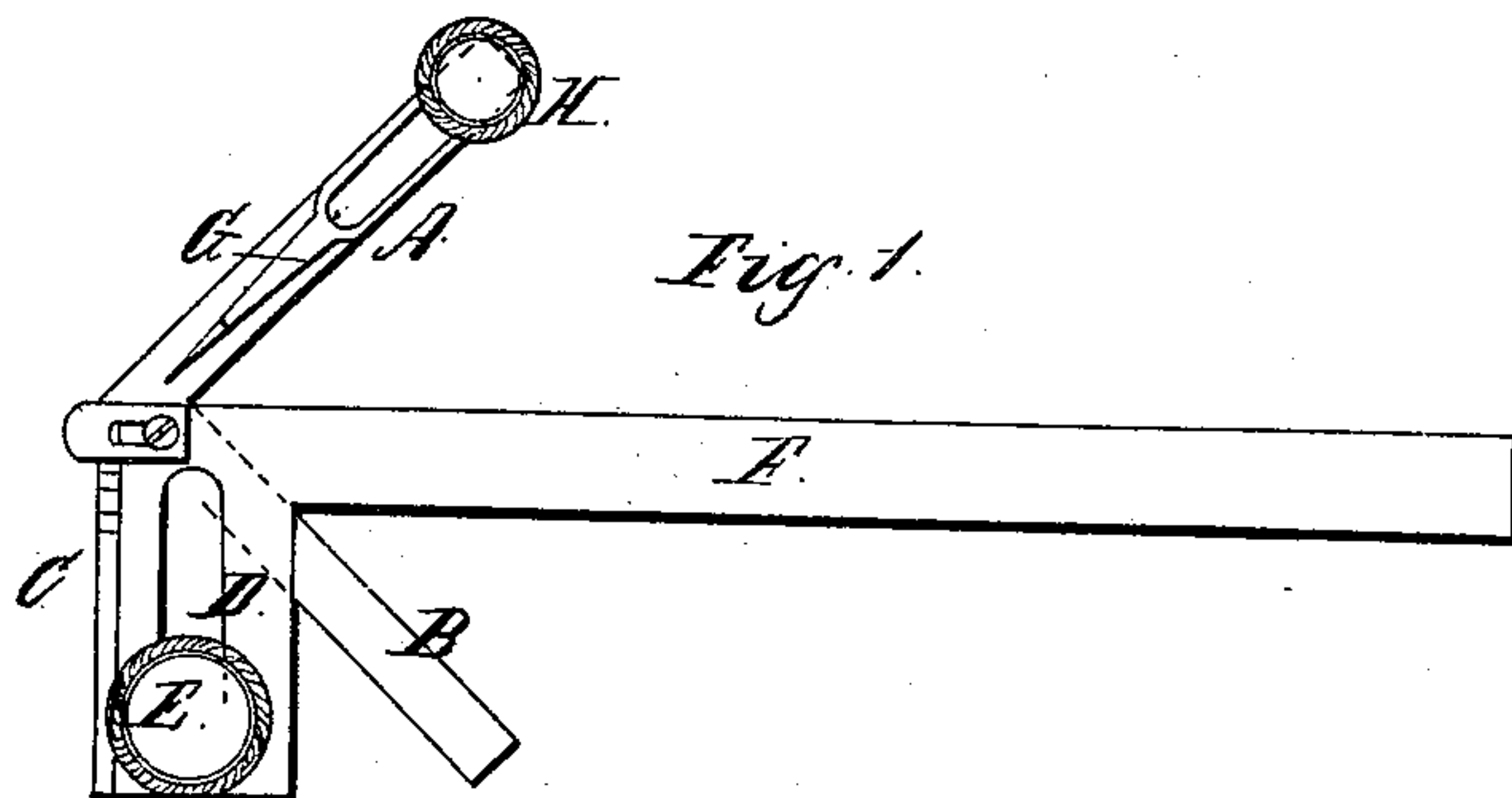


W. H. Brock.

Center Square.

N<sup>o</sup> 89,625.

Patented May 4, 1869.



Witnesses:  
John H. Sumner  
a J. T. Fitz

Inventor:  
William H. Brock  
By his Attorney  
John E. Earle

# United States Patent Office.

WILLIAM H. BROCK, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO  
HIMSELF AND CHARLES H. HUNTOON, OF THE SAME PLACE.

*Letters Patent No. 89,625, dated May 4, 1869.*

## IMPROVEMENT IN ADJUSTABLE CENTRE-SQUARE.

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, WILLIAM H. BROCK, of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new Improvement in Machinists' Square; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figures 1 and 2, top views, the tongue in different positions.

This invention relates to an improvement in squares for machinists' use, more particularly to what are known as "centre-squares," the object being to adapt the square to various uses; and

The invention consists in making the tongue adjustable, so as to be set at different positions from the angle of the T.

The invention also consists in combining, with the tongue and T so arranged, a pointer upon leg of the T, to adapt the square to a still more extended use.

To enable others to make and use my invention, I will fully describe the same as illustrated in the accompanying drawings.

A B are the two legs of the T, formed into a right angle, in the usual manner for a "centre-square."

Upon one of the legs B is arranged a guide, C, upon which a slide, D, is arranged to move freely on the said guide, and fixed in any given position by the set-screw E.

From the slide D extends the tongue F, at a right angle with the outer edge of the guide C, and at forty-five degrees from either leg. Therefore, when the tongue is set at the angle as in fig. 1, the tongue and two legs A and B form a "centre-square," to be used in like manner as are centre-squares of ordinary construction, the edge of the guide C forming a base for the perpendicular indicated by the square for other purposes.

The square being thus adjustable, it may be set at

any point from the angle of the two legs A and B, as shown in fig. 2, in one position. One use of the tongue thus adjusted is shown in the diagram, Figure 3, when it is desired to form a square hole diagonally in a square block. The tongue, being set from the angle of the two legs one-half the width of the hole, and set upon each angle of the block, will describe, successively, each side of the hole to be cut. This adjustment will suggest other uses, and show the importance of the adjustable tongue.

For still further adjustment and use, upon one leg, A, is a pointer, G, slotted, and secured by a set-screw, H, so that, when free, it may be turned freely, and set in any desired position, as in fig. 2. One illustration of the use of this arrangement may be given: It is desirable to space equally a bar. The first point being ascertained, the distance between that and the next known, the pointer G is set, as in fig. 2, within that distance of the tongue. Then, placing the square so that the pointer rests at the first line, the second point is indicated by the tongue, and the line then made, and the square moved until the tongue rests at the second line, and so on. This one illustration will suggest other uses equally as important.

Having thus fully described my invention,

What I claim as new and useful, and desire to secure by Letters Patent, is—

1. The combination of the tongue F with the legs A and B, at right angles to each other, the said legs provided with a guide, C, to receive the base, D, of the tongue, the said tongue made adjustable, so as to be moved to or from the angle of the two legs, and at an angle equally dividing the angle of the two legs, all substantially as set forth.

2. In combination with the subject-matter of the first clause, the pointer G, made adjustable, substantially as set forth.

WILLIAM H. BROCK.

Witnesses:

JOHN E. EARLE,

A. J. TIBBITS.