

D. M. MOORE.

Square.

No. 102,957.

Patented May 10, 1870.

fig. 1.

fig. 2.

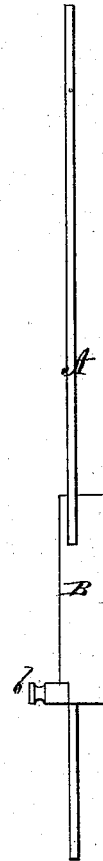
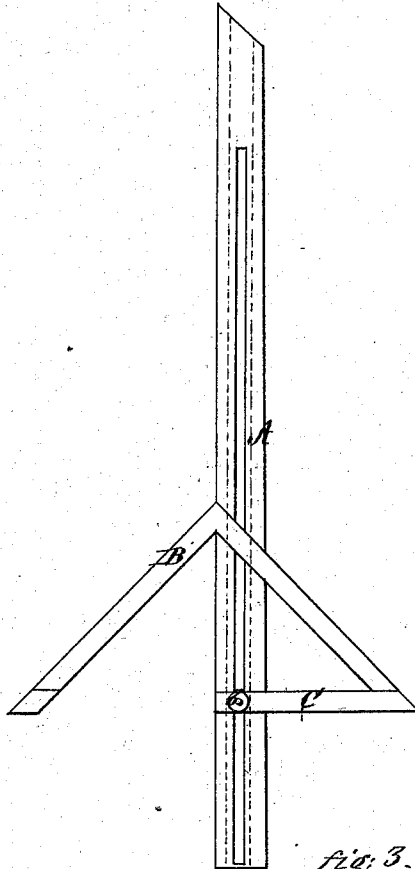
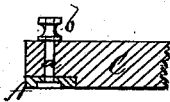


fig. 3.



Witnesses
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DAVID M. MOORE, OF WINDSOR, VERMONT, ASSIGNOR TO EBENEZER G. LAMSON, OF SAME PLACE.

Letters Patent No. 102,957, dated May 10, 1870.

IMPROVEMENT IN UNIVERSAL 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, DAVID M. MOORE, of Windsor, in the county of Windsor and in the State of Vermont, have invented certain new and useful Improvements in Universal Square; and 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.

The nature of my invention consists in making the tongue of a universal square adjustable by means of slot and thumb-screw, so that the tongue can project and be used at pleasure on either side of the square.

It further consists in making the brace which supports and confines the tongue of the square of such length that it will not interfere with the use of the tool as a center square when it is desired to ascertain with it the center of a small circle.

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 front view;

Figure 2 is a side view; and

Figure 3 is a horizontal section of my square.

My present invention, in one of its forms, is similar to what is known as "Ames' patent universal square." The latter consists of a right-angled triangle, the two sides of the right angle being equal; a bar or tongue extends from the right angle across and beyond the hypotenuse of the triangle a convenient distance, and is firmly attached to same, the tongue being so situated that one of its sides or edges shall coincide with a line drawn from the right angle perpendicular to the hypotenuse.

The instrument is made of steel or iron, and its uses as a square are well known.

My instrument, instead of having the tongue A permanently fastened to the triangular frame B at the right angle and at the hypotenuse, has a mortise at the right angle through which the tongue may slide.

The tongue A is also confined to the hypotenuse C by a bolt, *a*, and thumb-nut *b*, which bolt passes through a slot in the tongue. This slot extends nearly to the end of the tongue, which construction permits the tongue to slide, so that it may project entirely from the hypotenuse of the frame, or entirely from the right angle, or partly from each, and can be fastened in either position by the thumb-nut.

My instrument has that half of the hypotenuse C of the frame cut away which is not needed for the support of the tongue. This enables the centers of small circles to be ascertained with more convenience.

The advantages of this construction of the square are, greater convenience of use and greater adaptability.

Having thus fully described my invention,

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

The herein-described universal square, composed of the angular frame B, with one-half of its hypotenuse cut away, and the slotted movable tongue A held in place by the thumb-screw *b* and bolt *a*, or equivalent devices, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 5th day of April, 1870.

DAVID M. MOORE.

Witnesses:

E. E. LAMSON,

J. B. FARNSWORTH.