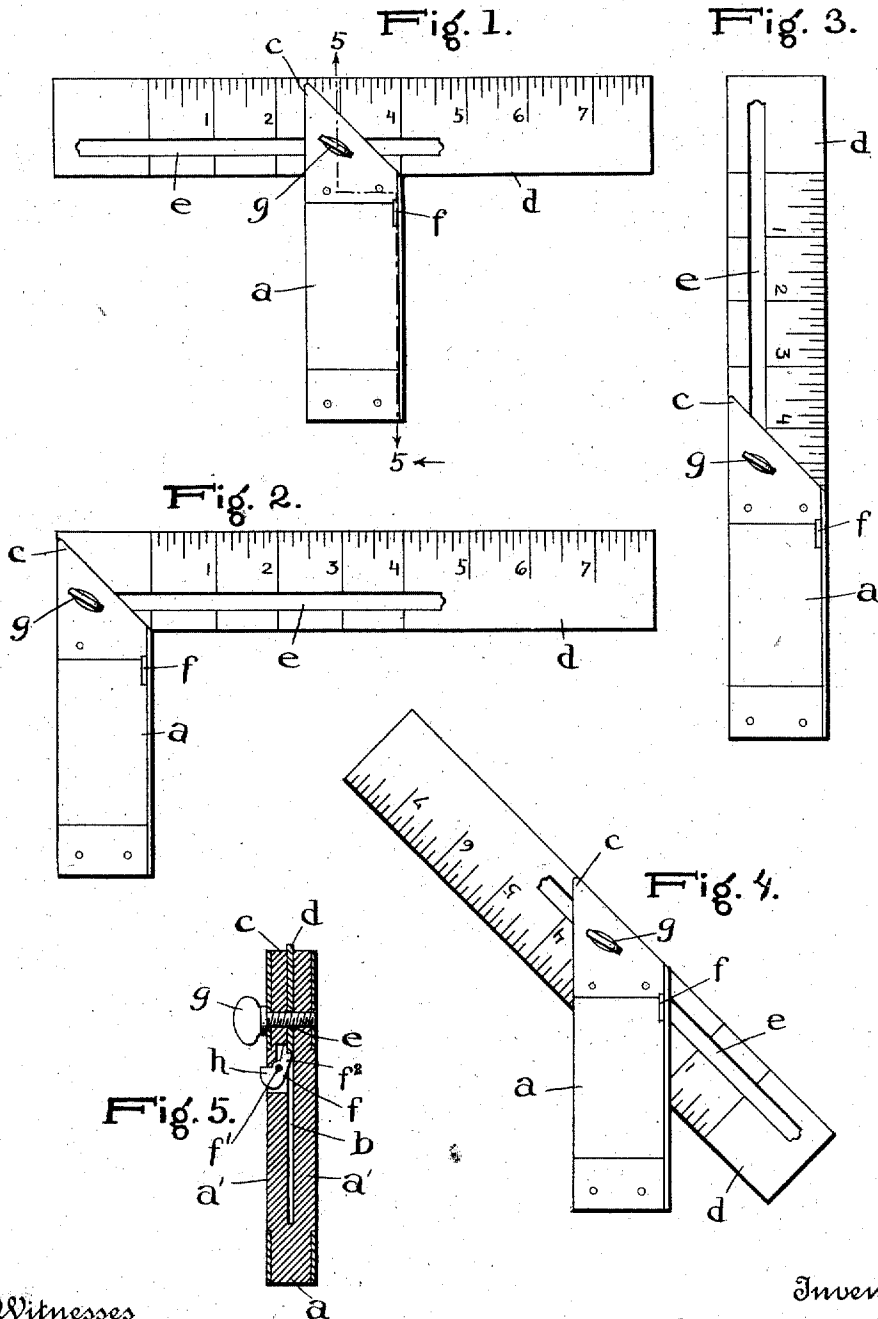


A. W. BENSKIN.
TRY SQUARE.
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985,132.

Patented Feb. 28, 1911.



Witnesses
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UNITED STATES PATENT OFFICE.

ALFRED WM. BENSKIN, OF MAUMEE, OHIO.

TRY-SQUARE.

985,132.

Specification of Letters Patent.

Patented Feb. 28, 1911.

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To all whom it may concern:

Be it known that I, ALFRED W. BENSKIN, a citizen of the United States, resident of Maumee, in the county of Lucas and State of Ohio, have made a certain new and useful Invention in Try-Squares, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a side view of my try square. Fig. 2 is a similar view showing a different position of the adjustable blade. Fig. 3 is a similar view showing the adjustable blade in folded position. Fig. 4 is a similar view showing the adjustable blade in inclined position with respect to the handle. Fig. 5 is a section on the line 5—5, Fig. 1.

The invention has relation to folding try squares, and it consists in the novel construction and combinations of parts as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the letter *a*, designates the handle, which is of bifurcated or split character, having a central slot *b*, extending from its upper end *c*, (which is preferably beveled as shown), the major portion of its length.

d, is the sliding and folding blade, having a longitudinal slot *e*, extending from near one end preferably beyond the middle portion of the blade. This blade fits between the branches *a'*, *a'*, of the handle, in the slot *b*, and in order that it may be supported in squared position, rests at its lower edge upon a small lever catch *f* having adjustment as a whole in a plane at right angles to said blade, and, the upper end of which normally lies within the slot *b*, a thumb screw *g*, connecting the two branches of the handle, having its shank in engagement with the slot *e*, of the blade, the upper edge wall of said slot, which is located to one side of the lever catch aforesaid, normally resting upon said shank of the thumb screw. The blade is thus pivoted upon the thumb screw shank, and will fall until it rests upon the lever catch, which being accurately adjusted holds the blade truly squared with the handle. Upon tightening of the thumb screw to draw the

branches of the handle together the blade is fixed in its position and may be used practically. The catch is pivoted immediately of its length at *f'*, and has its arm *f''*, working across the pivotal path of the blade in the slot of the handle and an operating arm *h*, projecting beyond a lateral surface of the handle.

Adjustment of the squared blade longitudinally is provided for by the longitudinal slot and thumb screw engagement, so that either or both sides of the blade may be used as a square in connection with either or both sides of the handle, as shown in Fig. 1 of the drawings, or the end of the blade may be brought in line with the handle and the blade have extension upon one side thereof only, as shown in Fig. 2.

When it is desired to fold the square the thumb screw is released and the lever catch retracted from the slot of the handle by pressure of the thumb or finger against the operating arm, forming a rigid part of said catch, when the blade is adjusted longitudinally until the inner end wall of its slot engages the thumb screw, and swung upon said thumb screw as a pivot until one end portion of the blade enters the handle slot and the blade becomes alined with the handle. The thumb screw is then tightened to fix the parts in folded position, when the square may be conveniently placed in the pocket until it is desired for use again.

Owing to the longitudinal adjustment of the blade with respect to the handle my square forms an accurate depth gage. The adjustment of the blade pivotally with respect to the handle enables my invention to be used as an accurate bevel gage. The frictional engagement of the side walls of the handle branches with the blade is such that loosening and tightening of the thumb screw to provide for and fix the various adjustments is not essential.

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

1. In a try square, a handle having a slot, a blade working in said slot and having a longitudinal slot, a clamp bolt having a stem engaging said slot, said blade having pivotal and sliding adjustment upon said stem and being capable of assuming a position at an acute angle to said handle and said bolt acting to secure the blade in po-

sition as adjusted, and a catch carried by said handle to limit the swing of the blade to a position at right angles to the handle, said catch having movement as a whole in a plane at right angles to the plane of said blade and sliding engagement with a longitudinal bounding edge of said blade.

2. In a try square, a handle having a slot, a blade working in said slot and having a longitudinal slot, a clamp bolt having a stem engaging said slot, said blade having pivotal and sliding adjustment upon said stem and being capable of assuming a position at an acute angle to said handle and said bolt acting to secure the blade in position as adjusted, and a pivoted catch device carried by said handle to limit the swing of the blade to a position at right angles to the handle, said catch having movement as a whole in a plane at right angles to the plane of said blade and sliding engagement with the lower longitudinal bounding edge of the blade.

3. In a try square, a handle having branches and a slot separating the same, a blade having a longitudinal slot, a clamp bolt

connecting the branches of the handle and having a stem engaging the blade slot, said blade having pivotal and sliding adjustment upon said stem and being capable of assuming a position at an acute angle to said handle and said bolt acting to secure the blade in position as adjusted, and a catch carried by said handle to limit the swing of the blade to a position at right angles to said handle, said catch having a pivot intermediately of its length, an arm working across the pivotal path of the blade in the slot of the handle and having sliding engagement with a longitudinal bounding edge of the squared blade, and an operating arm projecting beyond a lateral surface of the handle, said catch having movement as a whole in a plane at right angles to the plane of the blade.

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

ALFRED WM. BENSKIN.

Witnesses:

ALBERT ALIUS,
ROBERT J. LAWS.