

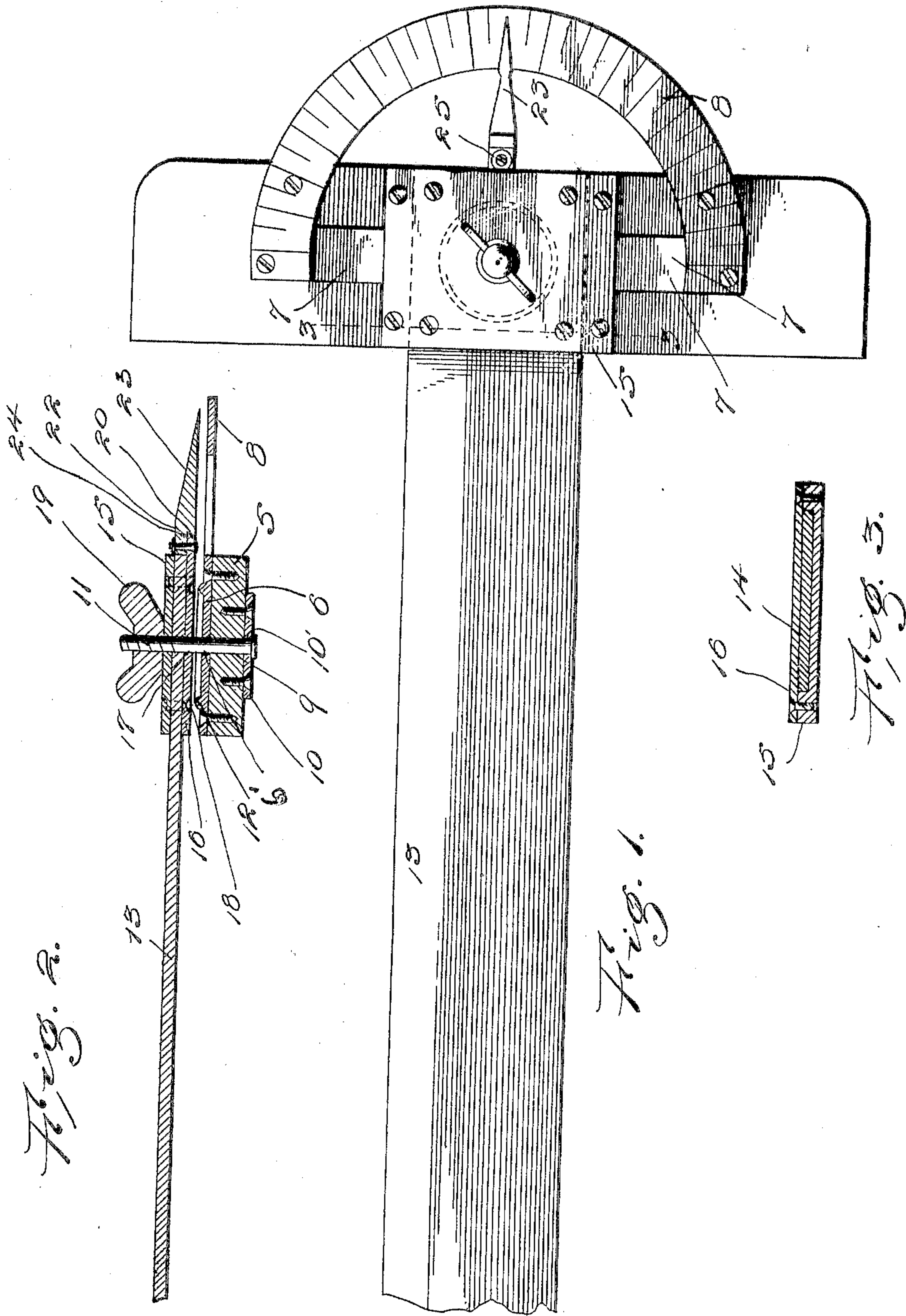
No. 797,228.

PATENTED AUG. 15, 1905.

J. A. ROBINSON.

T-SQUARE.

APPLICATION FILED AUG. 27, 1904.



Witnesses
C. M. Simpson
E. M. Belford

Inventor
J. A. Robinson
BY
Charles Chandler Attorneys

UNITED STATES PATENT OFFICE.

JAMES ARTHUR ROBINSON, OF BELLVILLE, OHIO.

T-SQUARE.

No. 797,228.

Specification of Letters Patent.

Patented Aug. 15, 1905.

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To all whom it may concern:

Be it known that I, JAMES ARTHUR ROBINSON, a citizen of the United States, residing at Bellville, in the county of Richland, State of Ohio, have invented certain new and useful Improvements in T-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.

This invention relates to T-squares, and more particularly to adjustable T-squares, and has for its object to provide a device of this nature which will be so arranged that it may be set to any angle and which will be provided with a scale in order that the degree of the angle may be exactly determined.

A further object is to provide a T-square embodying these features which will be strong and durable and which may be manufactured at a low cost.

Other objects and advantages will be apparent from the following description, and it will be understood that modifications of the specific construction shown may be made and any suitable materials may be used without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a plan view of the present invention. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a section on line 3 3 of Fig. 1.

Referring now to the drawings, the present invention comprises a head 5, having a plate 6 secured to its upper face and formed integral with the plate and extending outwardly therefrom at opposite points, and extending longitudinally of the head 5 are arms 7, and formed integrally with these arms is a segment 8, which joins the arms 7 at its ends, and this segment is marked off in a scale, as illustrated, the segment projecting beyond the rearward edge of the head and being in reality a semicircle.

Formed centrally through the head 5 is an opening 9, and secured against the under face of the head is a plate 10, having an opening 10' therein, and formed through the plate 6 is an opening 6', which also alines with the opening 9 for the reception of a bolt 11, which extends above the head. Formed upon the plate 6 and concentric with the opening 6' is an angular rib 12 for a purpose to be presently described.

The blade 13 of the T-square has one of its

ends disposed in recess 14 in a plate 15, the upper face of the blade lying flush with the face of the plate, and secured against the blade and the plate is another plate 16, the plates 15 and 16 and the blade having alining perforations 17 therethrough, in which is revolubly engaged the bolt 11. The plate 15 is provided with an angular groove 18 for the reception of the rib 12, and engaged with the end of the bolt 11, which projects beyond the plate 16, is a wing-nut 19, by means of which the blade may be clamped against the head to prevent movement of the two portions with respect to each other. Projecting outwardly from the plate 15 beyond the rearward edge of the head 5 is a lug 20, having a threaded perforation 21 therein, and the outer end of this lug is received in a recess 22 in the under face and at the end of a finger 23, having a passage 24 alining with the perforation 21 for the reception of a screw 25 to hold the finger to the lug. The outer end of the lug is beveled, and the recess 22 is similarly beveled. The finger 23 projects over the segment 8 to indicate the scale thereon, which, as illustrated, extends through ninety degrees of a circle, and when in use when it is desired to draw a line at a certain angle the wing-nut 19 is loosened and the blade is moved with respect to the head until the finger indicates the desired angle, after which the wing-nut is tightened, and the line may be drawn in the usual manner.

What is claimed is—

In a T-square the combination with a head having an opening formed therethrough, of plates secured to the upper and lower faces of the head respectively, said plates having openings therethrough alining with the opening of the head, oppositely-extending arms formed integral with the upper plate and extending longitudinally of the head, a segment connected at its ends with the ends of the arms and formed integral therewith, said segment having a scale marked thereon, a bolt engaged in the alining openings of the head and plates and extending above the upper plate, a plate having an opening in which the bolt is engaged above the upper plate of the head, said third-named plate having a recess in its upper face, a blade disposed at one end in the recess and having an opening alining with the opening of the third-named plate, and in which the bolt is engaged, the upper face of the blade lying flush with the upper face of the third plate, a fourth plate disposed upon the flush faces of the blade and the third

plate, fastening devices engaged in the fourth plate and in the blade, fastening devices engaged in the fourth plate and in the third plate, said segment extending rearwardly of the head, an outwardly-projecting lug carried by the third plate at its rearward edge, said lug having a beveled rearward end, a finger having a beveled recess in which the lug is engaged, a fastening device removably engaged in the lug and in the finger, said finger projecting over the segment and being

arranged for movement thereover when the third plate is moved, and a clamping-nut engaged with the bolt above the fourth plate for operation to prevent movement of the blade upon the bolt.

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

JAMES ARTHUR ROBINSON.

Witnesses:

OLIVER H. GURNEY,
DANIEL W. WILSON.