

No. 894,498.

PATENTED JULY 28, 1908.

S. C. HILLS.
CENTER SQUARE.
APPLICATION FILED APR. 20, 1908.

Fig 1

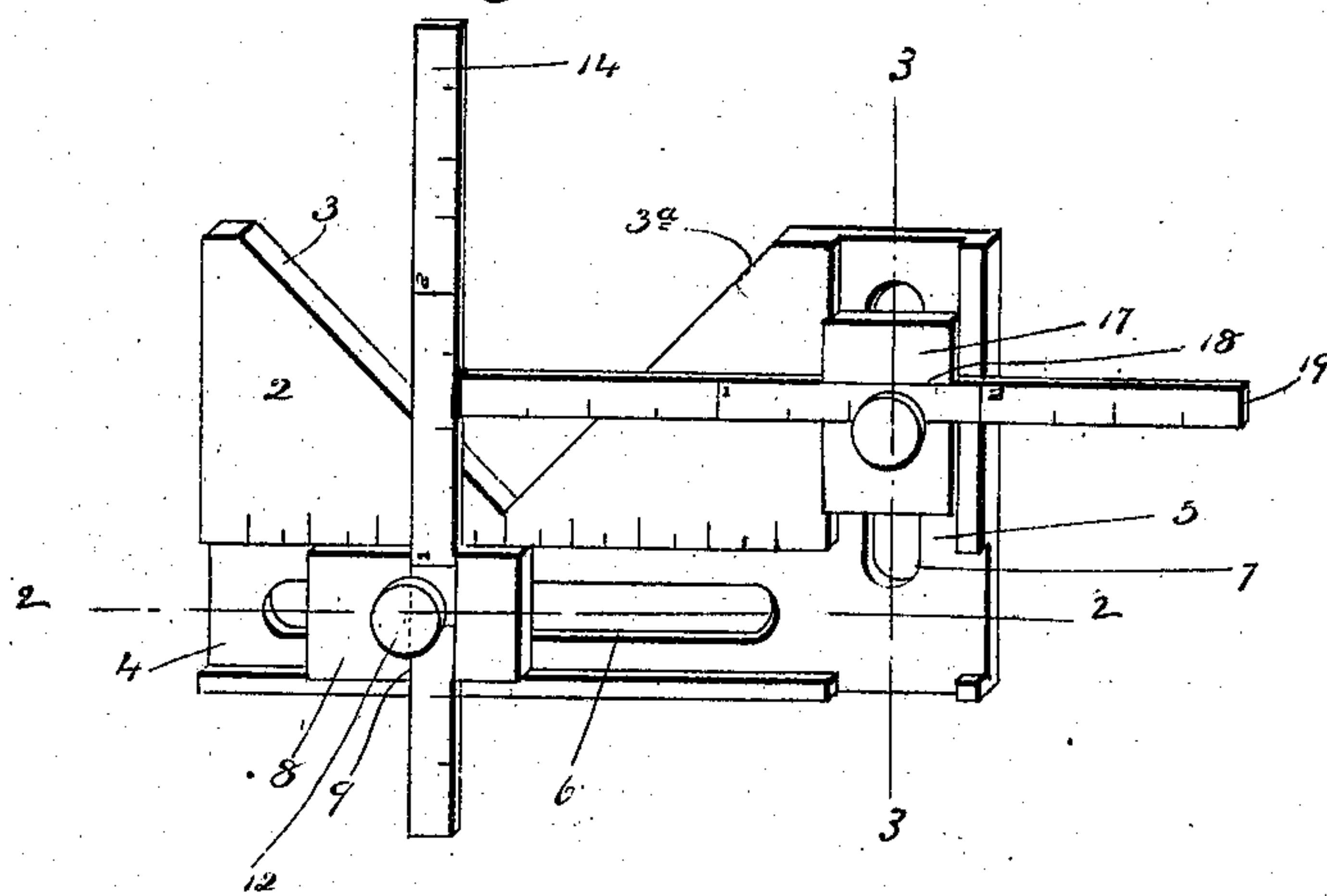


Fig 2

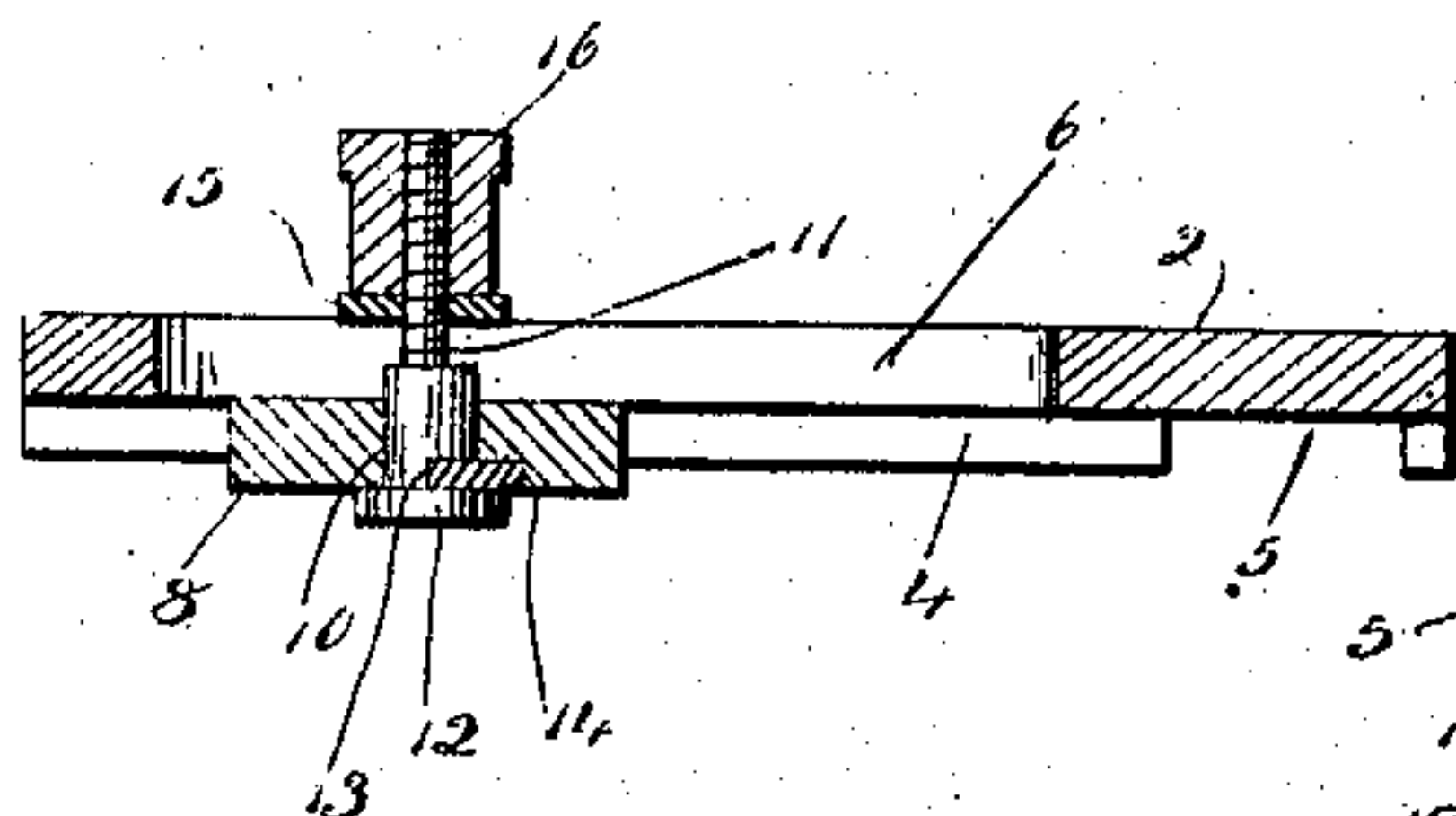


Fig 3

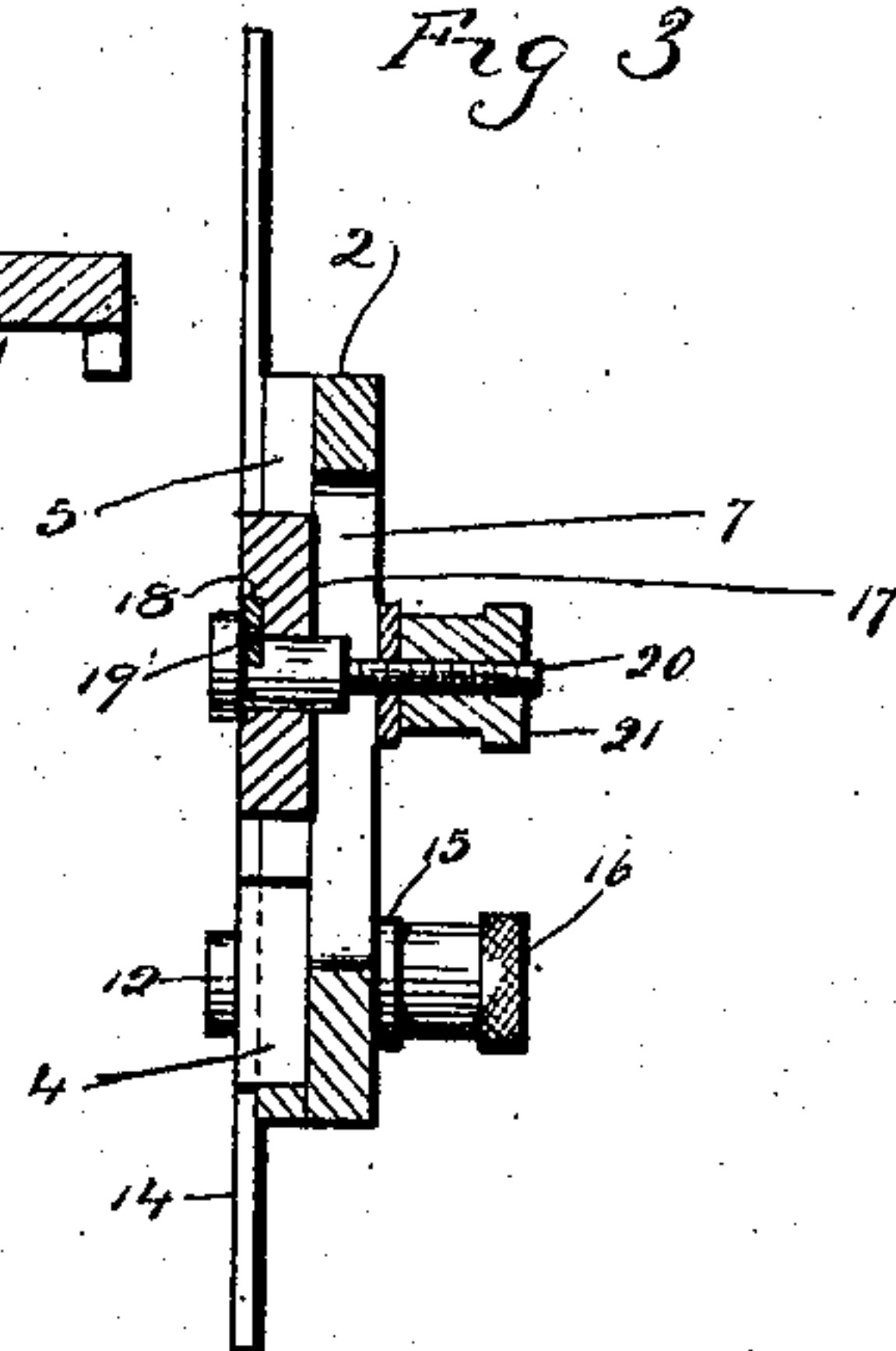
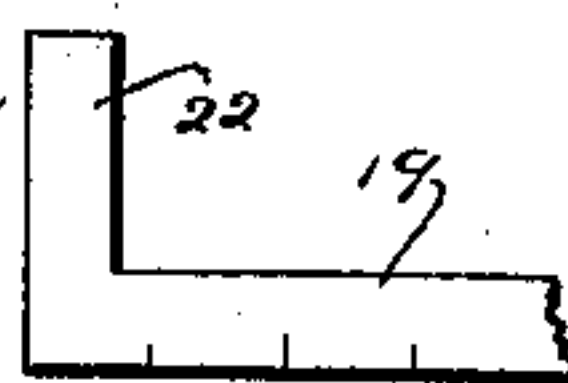


Fig 4



Witnesses
C. J. Reed.
C. L. Reed

Sidney C. Hills
Inventor
by Seymour T. Earle
Atty

UNITED STATES PATENT OFFICE

SIDNEY C. HILLS, OF TORRINGTON, CONNECTICUT, ASSIGNOR OF ONE-HALF TO FRANK M. TRAVIS, OF TORRINGTON, CONNECTICUT.

CENTER-SQUARE.

No. 894,498.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed April 20, 1908. Serial No. 428,230.

To all whom it may concern:

Be it known that I, SIDNEY C. HILLS, a citizen of the United States, residing at Torrington, in the county of Litchfield and State of Connecticut, have invented a new and useful Improvement in Center-Squares; 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—

Figure 1 a perspective view of a center square constructed in accordance with my invention. Fig. 2 a sectional view on the line 2—2 of Fig. 1. Fig. 3 a sectional view on the line 3—3 of Fig. 1. Fig. 4 an end view of a modified form of horizontal slide.

This invention relates to an improvement in center squares, the object being to provide means whereby lines at various angles may be accurately drawn and one which will have a large range of adjustment; and the invention consists in a center square having certain details of construction and combination of parts as will be hereinafter described and pointed out in the claims.

In carrying out my invention I employ a body 2 of metal or other suitable material formed with a large V-shaped notch in one side forming edges 3, 3^a, at right angles to each other and at angles of 45 degrees to the edge of the body. Longitudinally across the body is a groove 4, and vertically across the body at one side is a groove 5 intersecting the groove 4. In the groove 4 is a longitudinal slot 6 and in the groove 5 is a vertical slot 7. Mounted in the groove 4 is a clamping block 8 formed with a transverse groove 9 and with a central perforation 10. Extending through the perforation is a clamping screw 11 having a head 12 and having in one side a notch 13. Arranged in the groove 9 and entering the notch 13 in the screw is a gage 14. The screw 11 projects through the slot 6 and on it is placed a washer 15 and a thumb nut 16 by turning

which the head of the screw 12 will clamp the gage 14 in the slide block 8 and the block 8 to the body. The block is arranged for transverse movement and the gage is adapted for vertical movement at right angles to the movement of the block. In the vertical groove 5 is a block 17 corresponding to the block 8 and having a groove 18 to receive a horizontally movable gage 19 which is clamped in position by a screw 20 with its nut 21 in the same manner as is the gage 14 clamped in the block 8. The vertically arranged gage 14 is movable to the right or left as desired, while the gage 19 is movable vertically and always at a right angle to the gage 14. If desired the gage 19 might have an upwardly extending arm 22 at right angles to the gage as indicated in Fig. 4. As shown in the drawings the body adjacent to the groove 4 will be graduated and the gages 14 and 19 also marked with any desired scale.

I claim:—

1. A center square comprising a body having an angular notch in one side, a transversely movable slide mounted in the body, a vertically movable gage in said slide, a vertically arranged slide, a horizontally movable gage in said vertical slide, and means for clamping the slides and gages to the body, substantially as described.

2. A center square comprising a body having a notch in one side forming edges at right angles to each other, said body formed with a longitudinal groove and with a vertical groove, slots in said grooves, slides mounted in said grooves, gages mounted in said slides, and means for clamping the gages and slides to the body, substantially as described.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

SIDNEY C. HILLS.

Witnesses:

F. M. BALDWIN,
HOSEA MANN.