No. 796,030. PATENTED AUG. 1, 1905.

C. J. BAUMGARTNER.

SQUARE.

APPLICATION FILED APR. 7, 1905.

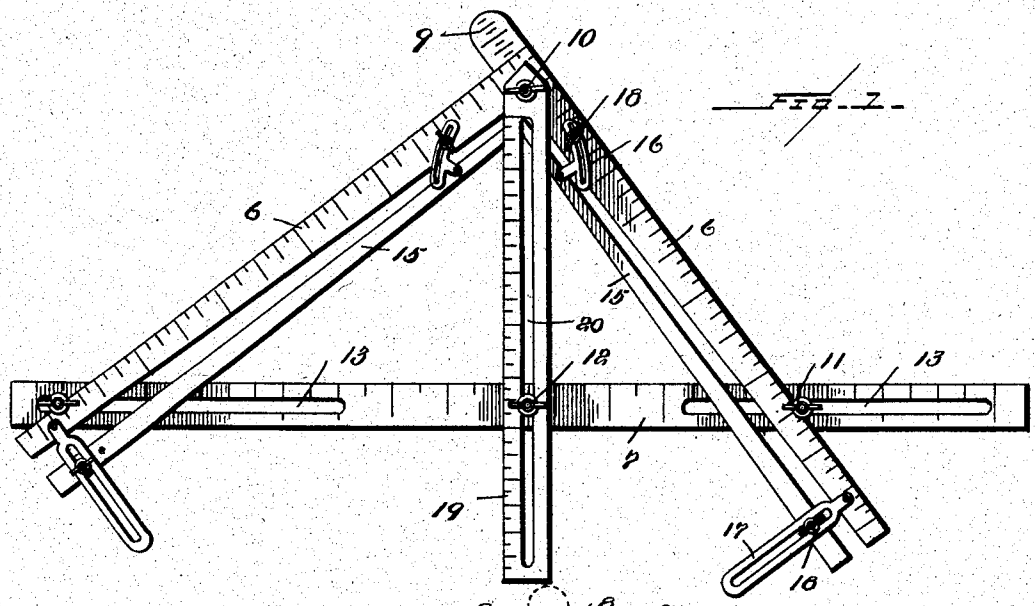


Fig. 1.

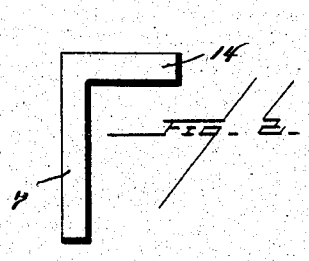


Fig. 2.

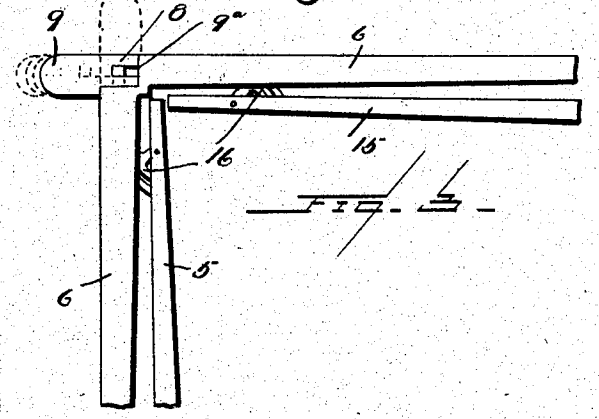
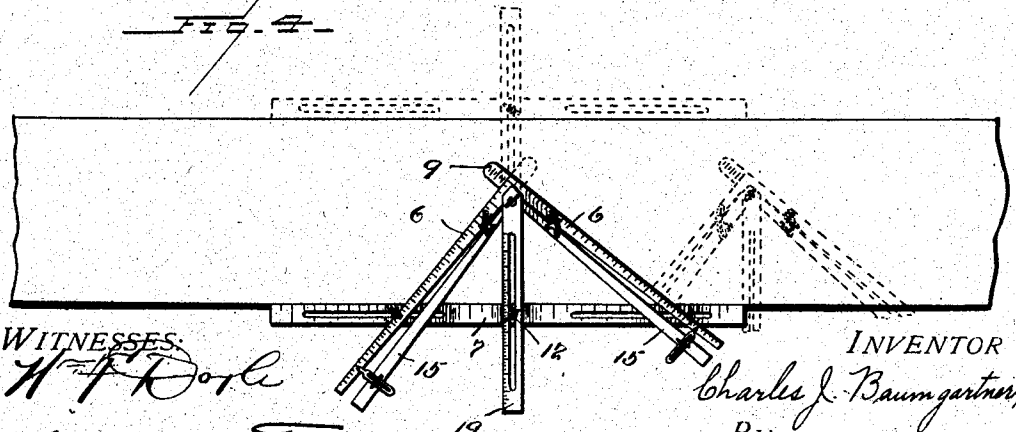


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

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SQUARE.

No. 796,030. Specification of Letters Patent. Patented Aug. 1, 1905.

Application filed April 7, 1905. Serial No. 254,266.

To all whom it may concern:

Be it known that I, CHARLES J. BAUMGARTNER, a citizen of the United States, residing at Roseville, in the county of Macomb and State of Michigan, have invented new and useful Improvements in Squares, of which the following is a specification.

This invention is a combined adjustable pitch-board and square, particularly suitable for laying out stairwork, although capable of use in various other ways and for various other purposes, such as will occur to those skilled in the art to which it relates.

Important features are a means for varying the angle of blades attached to the square to suit different thicknesses of treads or risers in stairwork and at the same time give a taper for the wedges used to drive the tread or riser tight in its position. An adjustable nose is also provided for laying out the nosings. When the device is properly adjusted and placed on the stringer, every mark or line necessary in laying stairwork can be made, no templet of any description being necessary. Consequently the work can proceed very rapidly.

In the accompanying drawings, Figure 1 is a plan view of the tool. Fig. 2 is an end view of the cross-bar thereof. Fig. 3 is a back view of the corner of the square, showing the manner of attaching the adjustable nosings. Fig. 4 is a plan view illustrating its manner of use in connection with stairwork.

Referring specifically to the drawings, a square is formed of two arms 6 in the usual manner. At the corner the arms are recessed on the under side to receive the tongue 8 of a nosing 9, which may be of any desired size. The nosing may be reversed, as indicated in dotted lines in Fig. 3, by loosening the thumb-screw 10, by which it is held in place, and may be adjusted in or out by means of the slot 9^a, through which the thumb-screw extends.

A cross-bar or straight-edge is indicated at 7, extending between the arms of the square. This cross-bar is not permanently attached to the arms, but may be clamped thereto by thumb-screws at 11 and 12, the former extending through one of the slots 13 in the ends of the bar. The bar is preferably angular in shape, giving a broad flange 14 to rest on the stringer in stairwork.

15 indicates blades which are attached to the respective arms of the square, at the inner edges thereof, by means of slotted links 16 and 17, which permit the blades 15 to be adjusted at any desired angle, within bounds, to the arms 6 to suit the different widths and inclinations of the treads or risers which are to be used in the work. Thumb-screws 18 fasten the parts at adjustment.

A center guide or blade is indicated at 19, secured to the cross-bar 7 by the thumb-screw 12, which extends through a slot 20 in said blade, and by the thumb-screw 10 at the corner of the square. This guide or blade is useful in centering circles, squares, or angles and in determining other measurements.

The parts permit of very quick adjustment to shift the tool from right to left hand work, as in laying out opposite stringers, and in addition to the use above referred to has the common uses of a square and pitch-board.

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

1. The combination with a square, of the blades 15 opposite the inner edges of the square, and the slotted links 16 and 17 adjustably connecting the ends of each blade with an arm of the square.

2. The combination with a square having a recess at the corner thereof open on two edges of the square, of a nose-piece having a shank fitting in the recess from either edge of the square, in line with either arm thereof.

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

CHARLES J. BAUMGARTNER.

Witnesses:

NORMAN E. MASKLE,

CHARLES PURDY.