

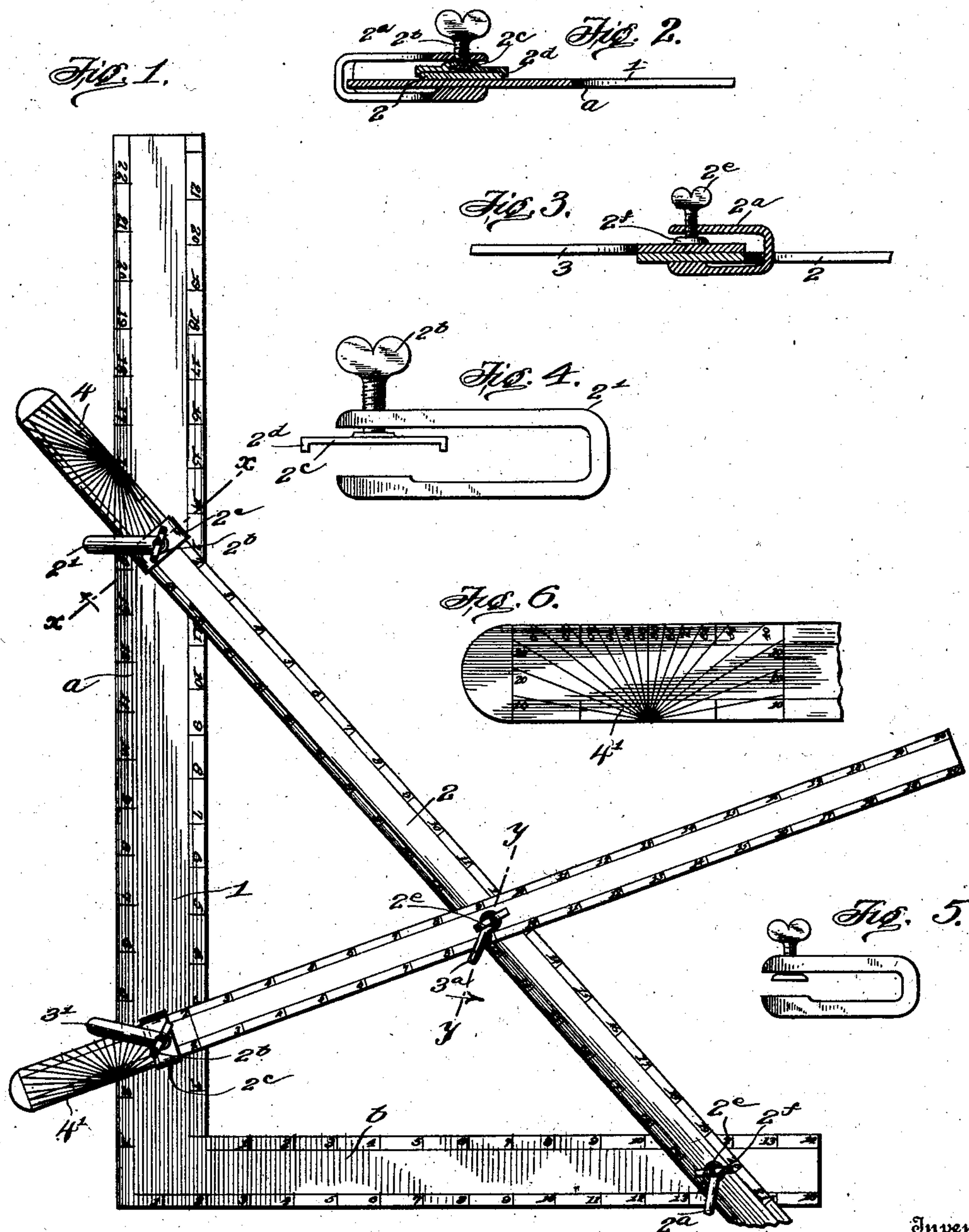
No. 721,274.

PATENTED FEB. 24, 1903.

H. A. BANKSTON.
FRAMING SQUARE.

APPLICATION FILED MAR. 6, 1902.

NO MODEL.



Inventor.

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Witnesses
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UNITED STATES PATENT OFFICE.

HIRAM ARCHIE BANKSTON, OF MACON, GEORGIA.

FRAMING-SQUARE.

SPECIFICATION forming part of Letters Patent No. 721,274, dated February 24, 1903.

Application filed March 6, 1902. Serial No. 96,998. (No model.)

To all whom it may concern:

Be it known that I, HIRAM ARCHIE BANKSTON, a citizen of the United States, residing at Macon, in the county of Bibb and State of Georgia, have invented certain new and useful Improvements in Framing-Squares; and I do 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.

The invention relates to framing-squares.

The object of the invention is to provide a device of this character which shall be simple of construction, durable in use, comparatively inexpensive of production and efficient in operation, and by means of which various angles may be laid off and measured with precision.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a plan view of my improved framing-square. Fig. 2 is a sectional view on line *x x*, Fig. 1. Fig. 3 is a similar view on line *y y*, Fig. 1. Fig. 4 is a view of one type of the clamps used, and Fig. 5 is a view of the other type of clamps used. Fig. 6 is a detail view showing the angle-scale.

In the drawings, 1 denotes a square of the usual construction, graduated in inches and subdivisions thereof in the usual manner.

2 and 3 denote adjustable blades suitably graduated. The blade 2 is adjustably connected to the member *a* of the square by a clamp 2', and is also adjustably connected to the blade *b* of the square by a clamp 2^a. The clamp 2' consists of a U-shaped frame, which embraces the upper end of the blade 2 and the member *a* of the square, and is provided with a set-screw 2^b, having a plate 2^c swiveled to its inner end, said plate having marginal flanges 2^d, which engage the edges of the blade 2. The clamp 2^a consists of a U-shaped frame having a set-screw 2^e, formed with a head 2^f, and is adapted to clamp the lower end of the blade 2 to the member *b* of

the square in desired adjustment. One end of the blade 3 is clamped to the member *a* of the square by a clamp 3', similar in construction to the clamp 2', and a further description of this clamp is not deemed necessary, and the blade 3 is connected to the blade 2 by a clamp 3^a, similar in construction to the clamp 2^a.

4 4' represent scales on the blades, which correspond with those on the arms of the square, whereby the blades may be accurately and quickly set to extend at any desired angle to the square.

To ascertain the length of a timber—say a rafter—the pitch and dimensions of the roof being known, the blade 2 is appropriately adjusted on and fastened to the arms of the square, when the required length of the timber may be read on the scale on the said blade which corresponds with the scales now used on the arms of the square. This also enables the bevel cuts for the ends of the rafter to be ascertained with ease and accuracy.

The two adjustable blades 2 3 are used in connection with each other and the square to determine the length of and bevel cuts for ends of timbers to be angularly disposed or cross-braced and the bevel cuts or rabbets at the points where the timbers are to cross one another. This is done by appropriately adjusting the blades 2 3 with reference to each other and the arms of the square and noting the readings on the scales.

The implement may be used for a variety of purposes—for plotting and for marking work, in framing houses, and in stair and bridge building, the blades 2 3 being adjustable to any desired angle with reference to each other and to the arms of the square.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of the invention will be readily understood without requiring an extended explanation.

Various changes in the form, proportion, and details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

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

In combination with a try-square, blades 2, 5 3, having scales corresponding to those of the square, the clamps 2', 2^a, 3' and 3^a, each comprising a U-shaped frame carrying a swiveled clamping member, and a set-screw to adjustably secure the blades to each other 10 and to the square, the bearing members of

the clamps 2', 3', consisting of plates having flanges engaging the edges of the blades, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 15

HIRAM ARCHIE BANKSTON.

Witnesses:

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