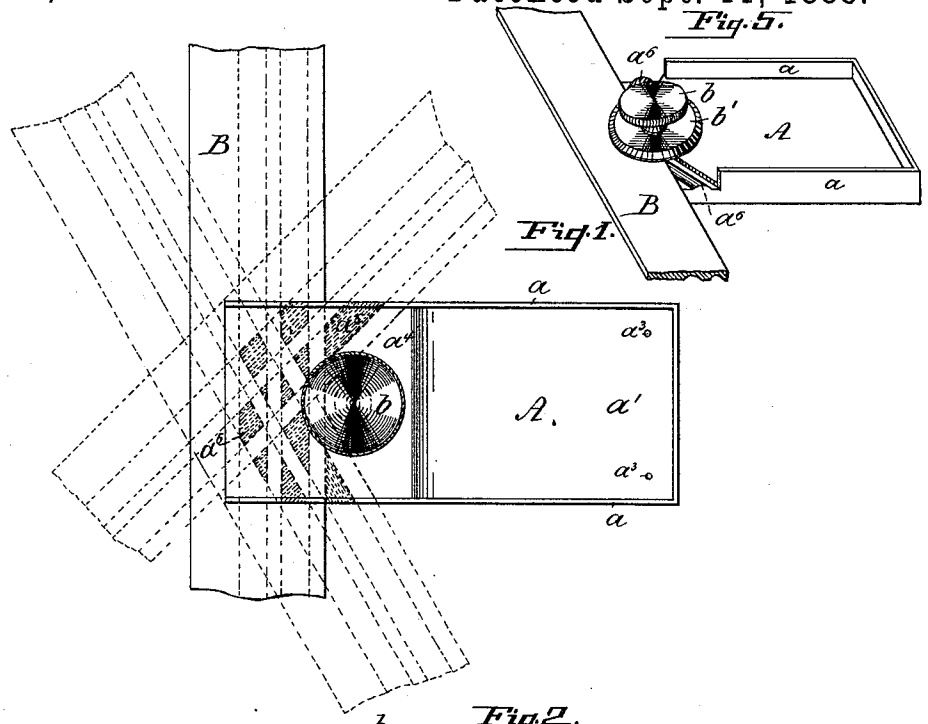
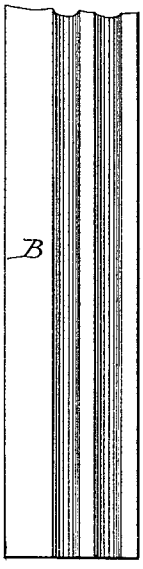
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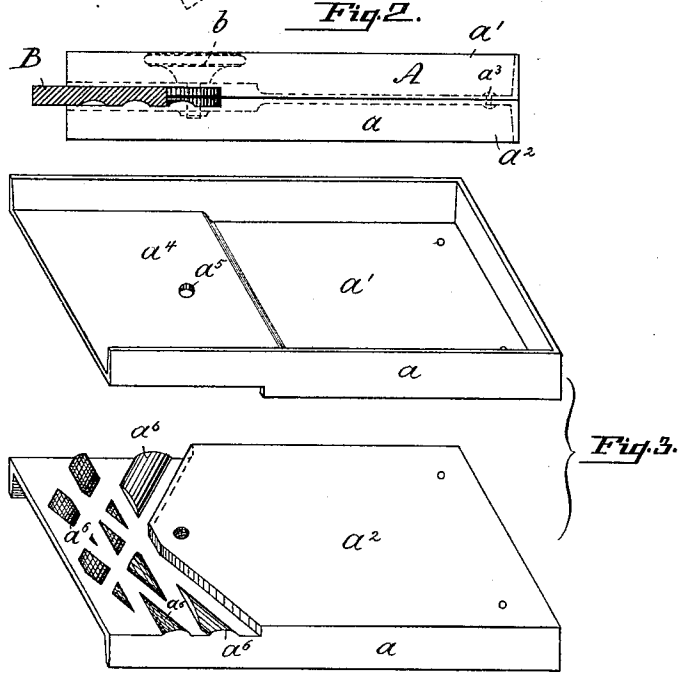
H. W. EVANS.

BEVEL AND SQUARE.

No. 389,370. Patented Sept. 11, 1888.







WITNESSES:

Hermann Bornamn.

Thomas M. Smith.

INVENTOR:

Hampton W. Evans.

By J. H. Walter Douglass,

Atty.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

HAMPTON W. EVANS, OF PHILADELPHIA, PENNSYLVANIA.

BEVEL AND SQUARE.

SPECIFICATION forming part of Letters Patent No. 389,370, dated September 11, 1888.

Application filed May 4, 1888. Serial No. 272,839. (No model.)

To all whom it may concern:

Be it known that I, HAMPTON W. EVANS, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and Improved Bevel and Square, of which the following is a specification.

The object of my invention is to provide a device or instrument of simple construction for performing the functions of a bevel and square.

My invention consists of a stock or head adapted to receive a grooved blade or graduated rule that may be set at once with accuracy in the position desired and the stock or head provided with simple means whereby said blade or rule may be readily clamped and firmly held in such position, and thereby presenting a handy or convenient bevel, try-square, and miter-square.

The nature and characteristic features of my invention will be more particularly understood when taken in connection with the accompanying drawings, in which—

Figure 1 is a top or plan view of my improved instrument or device, showing a grooved blade or rule clamped to the stock and thereby forming a try-square, and also illustrating in dotted lines the positions of the blade or rule when used as a bevel and miter-square. Fig. 2 is an end view of the instrument or device, showing a section of the blade and the clamping means for holding the same in the desired position. Fig. 3 is a perspective view of a two-part stock detached of my improved construction. Fig. 4 is a plan view of a blade or rule having a double-concave groove formed in the surface thereof; and Fig. 5 is a perspective view of a modified form of my improved instrument or device, with the blade shown as in use.

Referring to the drawings, A is the stock or head of the device, with a cheek, *a*, formed around the sides thereof. This stock may be made in two parts, a' and a^2, as shown in Figs. 2 and 3, or it may be cast in one piece with a cheek, *a*, as in Fig. 5. When made in two parts, they are held together by means of screws a^3, or by threaded bolts and nuts.

In the front portion of the upper half of the stock is formed a projection, a^4, and in the surface and extending through the projection is an opening, a^5, for receiving a milled-headed screw, *b*, made to engage in the surface of the lower part of the stock, thereby firmly holding the blade or rule B between the two parts a' and a^2. The front portion of the lower part, a^2, of the stock A is formed cut away at angles to the cheeks, and in this depression are formed accurately-located lugs, projections, or pins a^6, for readily engaging in the grooves of the blade or rule B. The blade B is formed with, preferably, two longitudinal concave grooves in the surface thereof, and this blade may be graduated, if desired.

The characteristic features of the invention having been described, I will now proceed to point out the uses or functions that the device is capable of performing and such as come within the purview of my invention.

The two parts a' and a', constituting the stock, being clamped to each other at their rear portions by means of the screws a^3, the clamping-screw is then inserted through the opening a^5 in the projection a^4 of the upper part, a', and turned by hand until it engages in the surface of the lower half of the part a^2 of the stock. The blade or rule B, Fig. 1, in full lines, if it is desired to form a try-square, is inserted between the two parts a' and a^2, and by means of the milled-headed screw *b* the projection of the upper part, a', is brought by a springing action into contact with the surface of the blade or rule, thereby firmly holding the same in the desired position for use. If the screw *b* be released by hand slightly, the blade or rule shown in dotted lines may be inserted between the two parts a' and a^2, so as to perform either the function of a bevel or miter-square.

In Fig. 5 is shown a modified form of stock, made in this instance in a single piece, with cheeks *a* formed on the three sides thereof, and with a depression formed in the front portion of the stock, with small lugs, projections, or pins accurately located so that a true angle or straight line may be insured in the use of the double-grooved rule or blade B brought into contact with the projections or lugs a^6, formed with the stock A. The blade B is clamped and held in the desired position by means of a washer, b', and milled-headed screw *b*, as will be readily understood.

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The improved device consisting of a stock provided with a depressed portion, with lugs, and with a shoulder having three faces and adapted to receive a grooved blade held at an angle of forty-five degrees, ninety degrees, or one hundred and thirty-five degrees to the stock by means of said lugs and a washer and screw, substantially as and for the purposes set forth.

2. The improved device consisting of a stock provided with a raised portion and a depressed portion having lugs thereon, and with a shoulder having two or more sides adapted to receive and hold a grooved blade at an angle of forty five degrees, ninety degrees, or one hundred and thirty-five degrees to the stock by means of said lugs and a screw, substantially as and for the purposes set forth.

In witness whereof I have hereunto set my signature in the presence of two subscribing witnesses.

HAMPTON W. EVANS.

Witnesses:

EDW. E. CULLEN,

HERMANN BORMANN.