(No Model.)

R. E. SHAW, L. H. CUTBIRTH & J. PLATT.

COMBINED BEVEL AND SQUARE.

No. 365,869. Patented July 5, 1887.

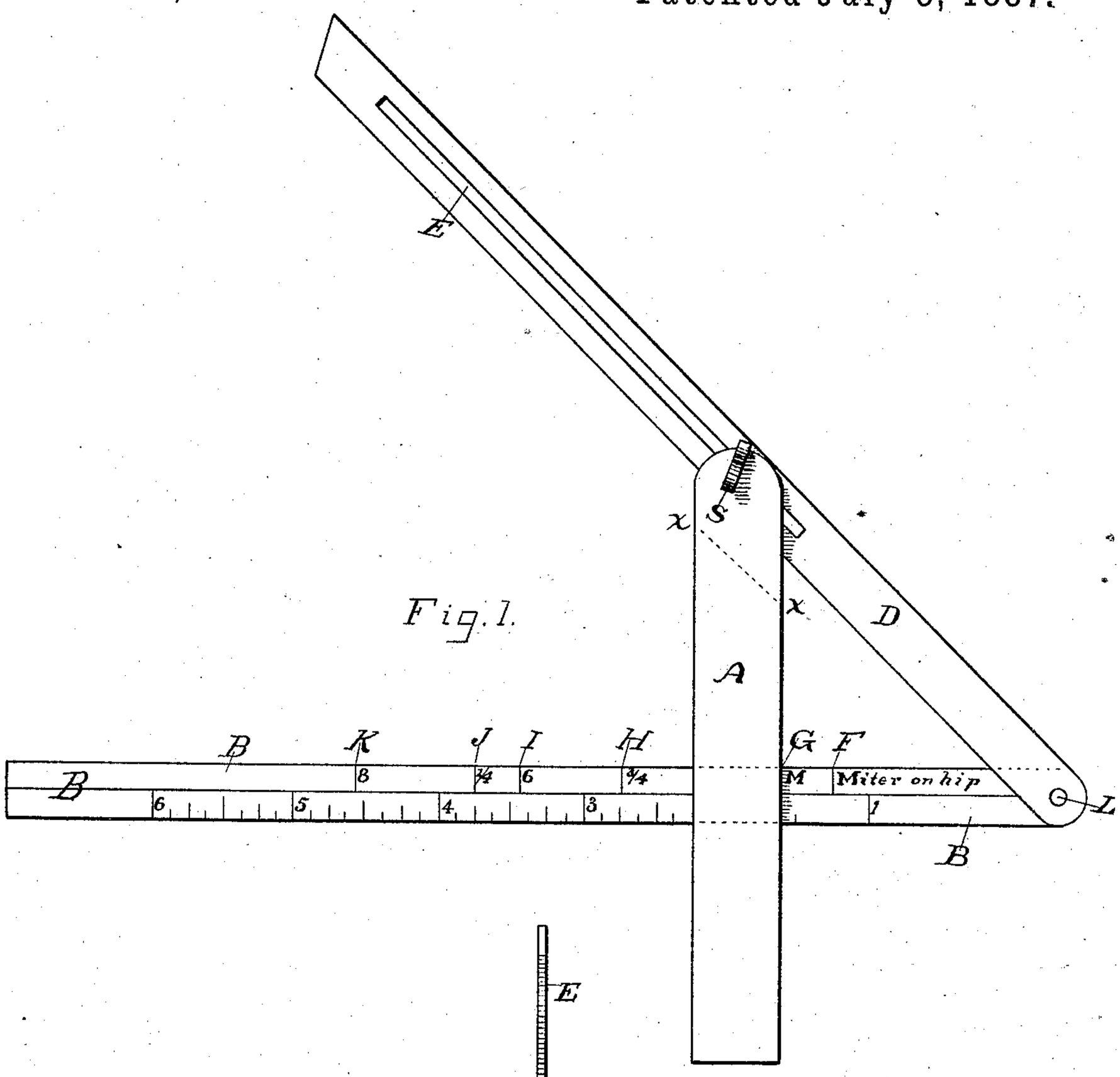

Fig. 1.

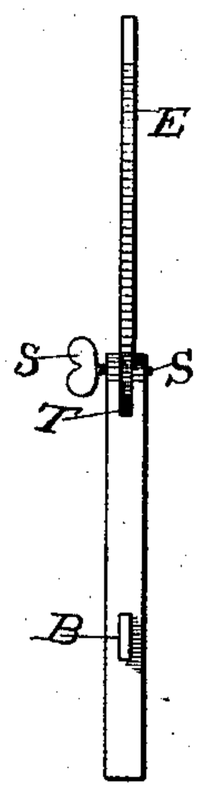

Fig. 2.

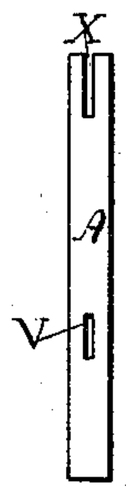

Fig. 3.

Witnesses.
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UNITED STATES PATENT OFFICE.

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COMBINED BEVEL AND SQUARE.

SPECIFICATION forming part of Letters Patent No. 365,869, dated July 5, 1887.

Application filed March 21, 1887. Serial No. 231,668. (No model.)

To all whom it may concern:

Be it known that we, RICHARD E. SHAW, LINCOLN H. CUTBIRTH, and JESSE PLATT, citizens of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Combined Bevel and Square, of which the following is a specification.

The object of our invention is to construct a cheap, simple, and convenient device comprising a bevel and a try-square, and simple and convenient means for accurately and readily setting the blade of the bevel at any of the angles most frequently used, and means for securing the blade of the bevel at various angles with its stock. We accomplish this by means of the device described herein, and illustrated in the accompanying drawings, in which—

Figure 1 is a plain side view of our improved bevel and square, showing the blade of the bevel set to mark a miter-joint. Fig. 2 is a reduced view of the same, looking toward the free ends of the blades B and D. Fig. 3 is a view of the stock, showing the mortise V, through which the blade of the square passes.

The stock A is provided with the mortise V, in which the blade B of the square fits snugly, so as to slide freely to and fro therein without shaking. The end of the stock A is provided with a slot, X, through which passes the slotted blade D of the bevel, which is secured to the stock by means of the set-screw S in the manner in common use in securing bevel-blades to their stocks, the screw serving as a pivot for the bevel-blade. The blade B of the square and the blade D of the bevel are pivoted together by the pivot L. It is obvious that when the blade B is slipped back and forth through the stock A the angle the bevel-blade D forms with the stock A will be changed.

In order to enable one to readily and conveniently determine the angle of the bevel-blade with its stock, we mark points upon the blade B, which, when made to coincide with the edge of the stock, will indicate the angles most frequently used by carpenters and joiners.

In the drawings, F marks the point at which the edge of the stock should be set to cut the miter-joint for rafters on the hip of a roof. G marks the point for an ordinary miter-joint. H marks the point for cutting rafters for "three-quarters pitch." I marks the point for laying off a hexagon. J marks the point for cutting rafters "one-quarter pitch." K marks the point for laying off an octagon. It is obvious the position of the points will vary according to the distance from the mortise V to the set-screw S, which serves as a pivot to sustain the bevel-blade D. We determine the position of the points by setting the bevel at the required angle and then making a mark on the blade B at the edge of the stock.

E is the slot in the bevel-blade through which the set-screw S passes, and which allows the blade D to slide back and forth as the blade is slipped through its mortise for the purpose of changing the angle of the bevel-blade.

The dotted line *x x*, Fig. 1, indicates the depth of the slot X.

Now having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A combined bevel and square consisting of the combination of the stock of the square, a sliding blade attached thereto at right angles therewith, and a slotted blade pivoted to such stock and to the sliding blade, substantially as set forth.

2. In a square and bevel, the combination, as set forth, of the stock of the square, the sliding blade of the square attached thereto at right angles therewith, and the sliding bevel-blade pivoted upon the blade of the square and pivotally attached to the stock.

3. The combination of the stock A, blade B, pivot L, blade D, and set-screw S.

4. In a square and bevel, the combination, as set forth, of the stock of the square, the sliding bevel-blade pivoted upon the stock and upon the sliding blade of the square, and the sliding blade of the square provided with marks to indicate the various angles formed by the bevel-blade and stock, substantially as set forth.

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