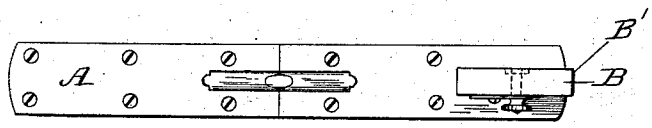
(No Model.)

M. EUINTON.

COMBINED LEVEL, SQUARE, AND BEVEL.

No. 315,264. Patented Apr. 7, 1885.

Fig. 1.



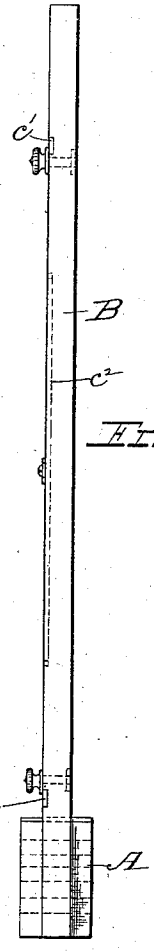


Fig. 3.

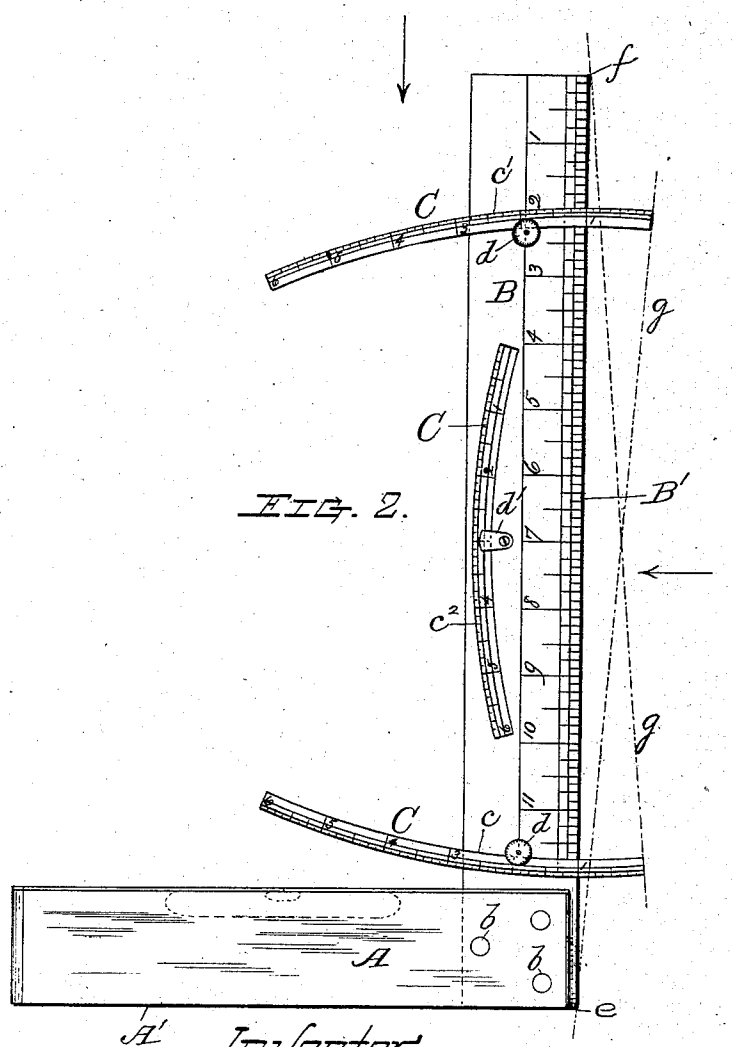


Fig. 2.

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UNITED STATES PATENT OFFICE.

MATTHEW EUINTON, OF WEST UPTON, MASSACHUSETTS.

COMBINED LEVEL, SQUARE, AND BEVEL.

SPECIFICATION forming part of Letters Patent No. 315,264, dated April 7, 1885.

Application filed September 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, MATTHEW EUINTON, of West Upton, in the county of Worcester and State of Massachusetts, have invented a new and useful Combined Measuring, Leveling, Plumbing, Squaring, and Beveling Instrument for Carpenters' Use, and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a plan or top edge view of my aforesaid improved carpenter's tool or instrument. Fig. 2 represents a side view of the same, and Fig. 3 a side edge view of the instrument, looking in the direction indicated by the arrow in Fig. 2.

To enable those skilled in the art to which my invention appertains to make and use the same, I will proceed to describe it more in detail.

In the drawings, the part marked A represents an ordinary spirit-level. It also in this instance constitutes one side of a square, the other side being formed by the longer part B, which may be marked off into inches and fractions of an inch for measuring, in a similar manner to an ordinary carpenter's square or rule, as is indicated in the drawings. The part B may be made so as to measure two feet, instead of one, as shown, or any other desired length. It may be fastened to the spirit-level A in any convenient and well-known manner.

In this instance I form a central longitudinal slot in one end of the level, insert the end of the part B in the same at right angles to each other, and then fasten the two parts in position by means of the dowels or pins *b*. By thus forming a square of the level A and part B having the straight sides A′ B′ at right angles to each other, as above described, the instrument, as will be seen, may be used for plumbing as well as leveling, measuring, and squaring purposes, by obtaining the level in the usual way and plumbing from the vertical side B′.

The part marked C represents an adjustable segment-gage for gaging inclined angles—as, for instance, the angle of a tapering chimney or similar inclinations required to be gaged in practice. Said gage C may be inserted in one or the other of the correspondingly-shaped slots or grooves *c c′* made crosswise in the surface of the part B, or when not in use placed in a slot or groove, c^2, made longitudinally in the part B. In all of the aforesaid positions it is held from falling out of the slot in which it is placed by means of a thumb-screw, *d*, or latch *d′*, as shown in the drawings.

In order to fully illustrate the application of said gage, I have represented it in Fig. 2 in all of the positions before described. The outer or convex edges of the gage are marked off into inches and fractions of inches, the same as an ordinary rule. I have represented both sides as being marked, for convenience in reading, the distance it is moved out or in when used on either end of the part B; but, if preferred, they may be marked, as shown, only on one side, or to read in reverse directions from each end. The distances from the outer convex sides of the slot *c′* to the corner *e*, (see Fig. 2,) and from the same point on the slot *c* to the corner *f* of the square, are just one foot, and the circles forming said slots are struck from said points as centers. Therefore, by moving the gage C in or out to or from the straight side B′ any inclination to a foot may readily be obtained between the points of contact, either inward or outward, or, in other words, between the ends of the gage C′ and points *e f*, as is shown by dotted lines *g* in Fig. 2; and when thus adjusted and fastened as before described the instrument may be used not only for the last-named purpose, but also with equal facility for the various other purposes hereinbefore described.

The gage C may be varied in length to suit different sizes of instruments.

From the foregoing description it will be seen that my invention embodies both novelty and usefulness. By its use workmen are saved considerable trouble and waste of time by having only one instead of several tools to look after. Then, again, the expense to purchasers is greatly reduced by combining several tools in one instrument, which is of especial advantage to amateur workmen, who do not care to expend the sums necessary in purchasing the various tools which are embraced in my invention.

Having described my said invention, what I claim therein as new and novel, and desire to secure by Letters Patent, is—

1. The combination of the rule B, provided with the segment slots or grooves c c' c^2, with the segment part or gage C and its holding screws or latches d d', substantially as and for the purpose set forth.

2. The combination of the spirit-level A and rule B, provided with the segment slots or grooves c c' c^2, with the segment gage part C and holding screws or latches d d', constructed and arranged substantially as shown and described, for the purposes stated.

MATTHEW EUINTON.

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