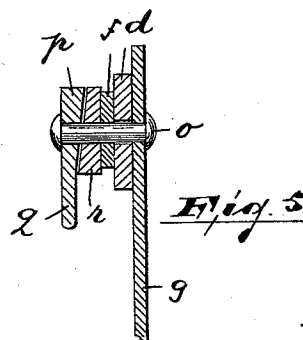
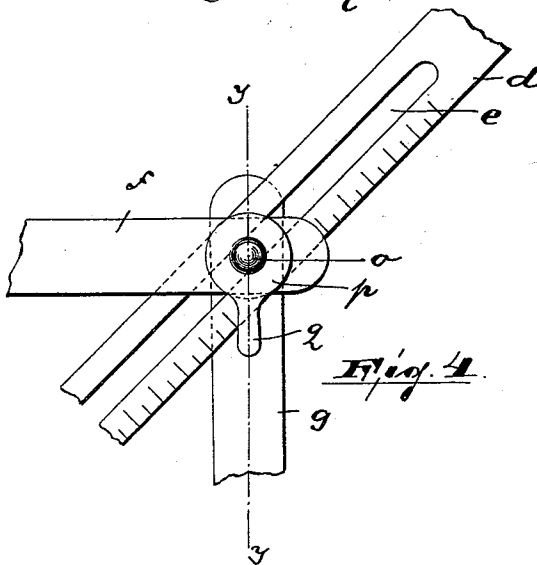
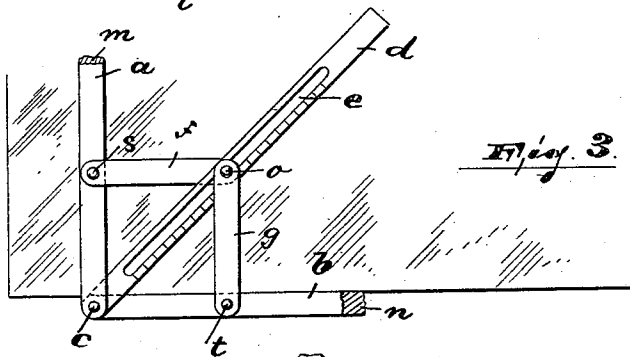
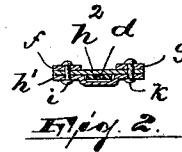
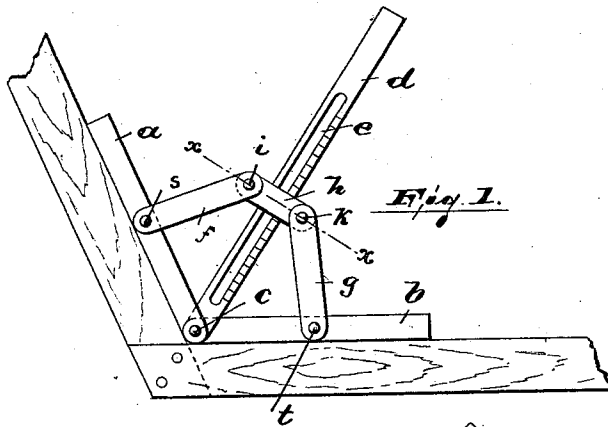


(No Model.)

A. J. WALKER.
COMBINED BEVEL, MITER, AND SQUARE.

No. 541,514.

Patented June 25, 1895.



WITNESSES:

Duncan M. Robertson.

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UNITED STATES PATENT OFFICE.

ARTHUR JOHN WALKER, OF NEWARK, NEW JERSEY.

COMBINED BEVEL, MITER, AND SQUARE.

SPECIFICATION forming part of Letters Patent No. 541,514, dated June 25, 1895.

Application filed October 16, 1894. Serial No. 526,029. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR JOHN WALKER, a subject of the Queen of Great Britain, residing in Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in a Combined Bevel and Miter Stock and Square; and I do hereby 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a combined bevel, miter stock and square of simple, strong and durable construction and accurate and reliable when used.

The invention consists in the improved combined miter stock and square, and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described and finally embodied in the claim.

With reference to the drawings, Figures 1 and 3 are plan views of my improved device when used as a miter and square, respectively. Fig. 2 is a section on line *xx* of Fig. 1. Fig. 4 is an enlarged detail view illustrating a certain locking or binding mechanism, and Fig. 5 is a section on line *yy* of Fig. 4.

In said drawings *a* and *b* represent two arms pivoted together as at *c*, which pivot also serves as a fulcrum for the center arm *d* provided with an elongated slot *e* and with graduation marks as clearly shown. To the arms *a* and *b* are also pivoted as at *s* and *t* the arms *f* and *g* respectively, the free ends of which are either pivotally secured to the pin *o* sliding in the elongated slot *e* of arm *d* (Fig. 3) or they are pivotally secured as at *i* and *k* to a bridge *h*. The latter is composed of two strips *h'* and *h''* and forms a guide for the center arm *d* as clearly shown in Figs. 1 and 2.

In the construction shown in Fig. 3 the arms *a*, *b*, *f* and *g*—"from fulcrum to fulcrum"—are equal in length, while the arms *f* and *g* in the construction shown in Fig. 1 are slightly shorter than the portions of the arms *a* and *b* between the fulcrums "*s* and *c*" and "*c* and *t*" respectively.

One of the arms *a* or *b*, (in the drawings *b*) is considerably thicker than the other arm and

also than the other portions of the device—and is so indicated at *n* (and *m*) in Fig. 3—for the purpose of forming a rest or bearing—when used as a square (Fig. 3).

It will be manifest that the pin *o* may be replaced by a bolt and thumbscrew—for the purpose of tightening the device when opened to a certain angle—but I prefer to place two washers *r* and *p*, having their touching faces inclined in opposite directions, between one of the arms *f* (or *g*) and the head of the pin *o*. One of the washers (*p*) is provided with a handle *q*, so that it can easily be turned around, while the other washer (*r*) is secured to the said arm *f*.

As the slotted arm *d* is provided with graduation marks a certain angle or bevel can easily be determined or set.

From the foregoing description it can be seen that the device is very simple and accurate and that whenever opened, the center arm *d* (or better its elongated slot *e*) is in the center or division line of the angle formed by the arms *a* and *b* or *f* and *g*.

I am aware that miter gages and bevels have heretofore been constructed with outer and inner arms pivoted together and to a slotted center arm, and therefore I do not make any claim on such construction.

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

In a combined bevel, miter stock and square, the combination with the slotted center arm provided with graduation marks, a pair of outer arms pivoted to one end of the same, one of the arms being considerably thicker than the other to form a rest or bearing, a pair of inner arms pivoted to about the center of the said outer arms and also to a pin arranged in the slot of the center arm, and two washers having oppositely inclined touching faces arranged on the pin forming the fulcrum for the inner arms, all said parts substantially as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of October, 1894.

ARTHUR JOHN WALKER.

Witnesses:

ALFRED GARTNER,
DUNCAN M. ROBERTSON.