

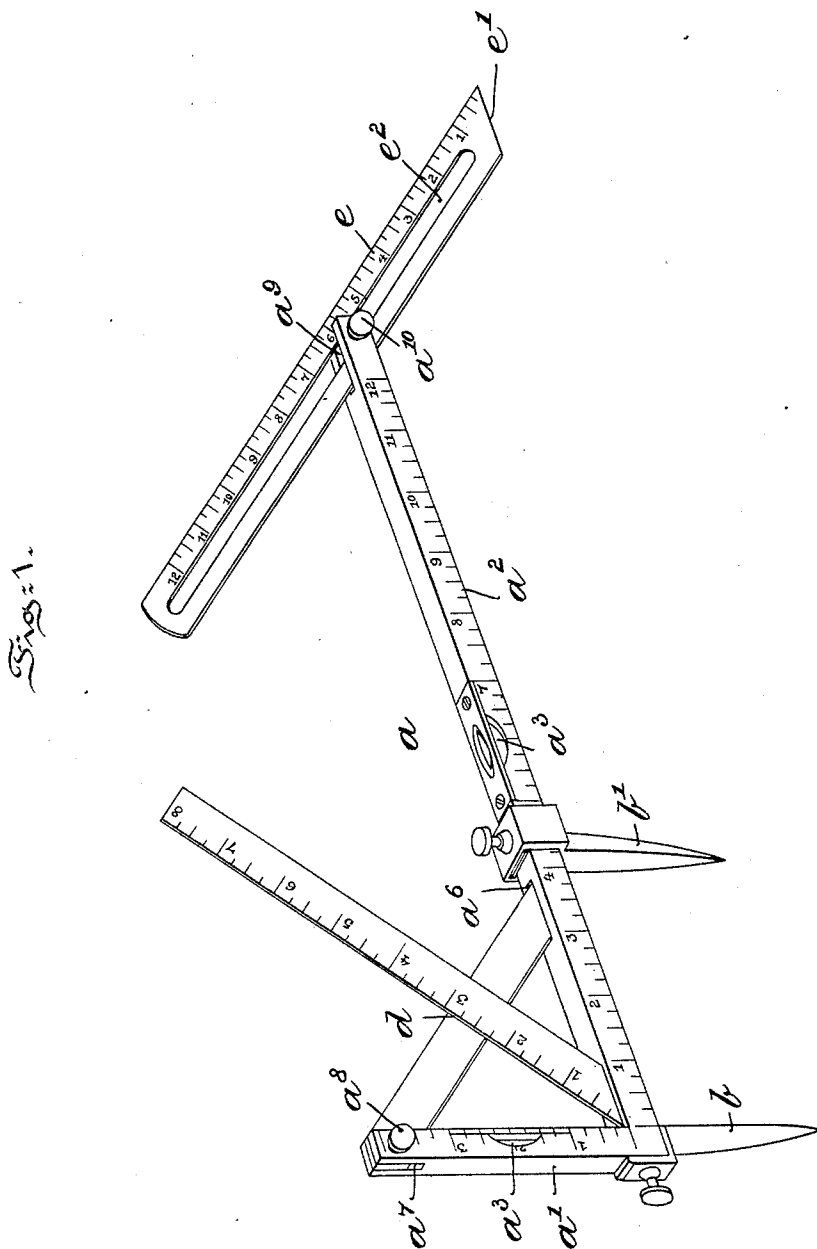
(No Model.)

2 Sheets—Sheet 1.

G. M. McELLIOTT.
COMBINED MECHANICAL TOOL.

No. 586,798.

Patented July 20, 1897.



Witnesses:

Thomas M. Smith.

Richard C. Maxwell

Inventor:
Geo. M. Elliott,

By J. Walter Douglas,
Attorney.

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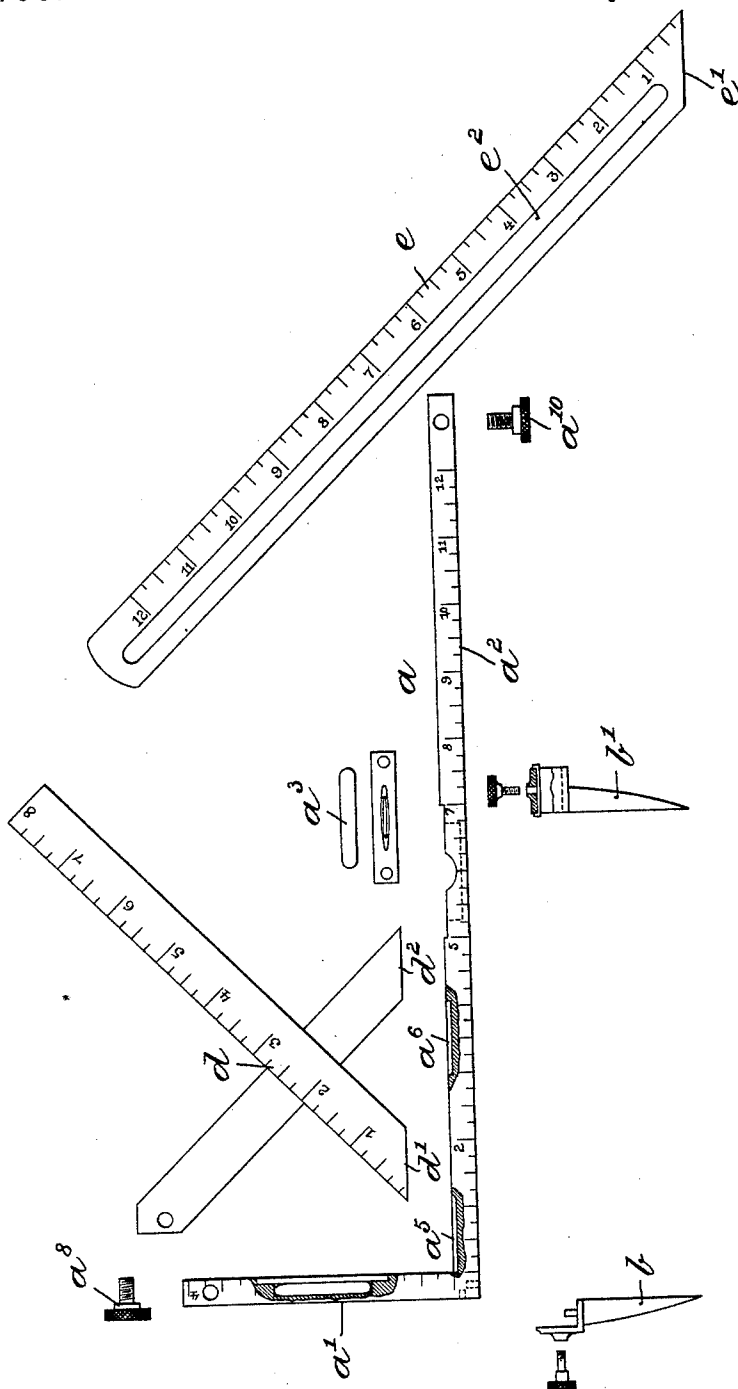
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Fig. 2—



Witnesses:
Thomas M. Smith
Richard C. Maxwell

Inventor:
Geo. M. McElliott,
By J. Walter Douglass,
Attorney.

UNITED STATES PATENT OFFICE.

GEORGE M. McELLIOTT, OF PHILADELPHIA, PENNSYLVANIA.

COMBINATION MECHANICAL TOOL.

SPECIFICATION forming part of Letters Patent No. 586,798, dated July 20, 1897.

Application filed May 22, 1897. Serial No. 637,815. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. McELLIOTT, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Combination Mechanical Tools, of which the following is a specification.

My invention has relation to a combination-tool for carpenters, draftsmen, and other workmen; and in such connection it relates to the construction and particular arrangement of such a tool.

The principal object of my present invention is to provide a tool of comparatively simple construction embodying a main square, a mitering or centering square adjustably and removably secured to one end of the main square, a trammel-point adapted to be removably secured to the angle of the main square, a second trammel-point adapted to slide on one of the arms of the main square toward or away from the fixed trammel-point, and a foot-rule adapted to be adjustably secured to the free end of one of the arms of the main square, and the said instrumentalities adapted to be employed in conjunction with each other in one instrument or tool of my said invention for sundry purposes hereinafter defined.

My invention, stated in general terms, consists of a combination mechanical tool constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and scope of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a perspective view of a tool embodying main features of my invention, and Fig. 2 is a front elevational view of the parts of the tool detached from each other.

Referring to the drawings, *a* represents the main square having the two graduated arms *a'* and *a''*, in each of which is set a spirit-level *a'''*. At the corner or angle of the main square *a* is removably secured a trammel-point *b*, and on either arm *a'* or *a''* is adapted to slide a movable trammel-point *b'*, the levels *a'''* being set below the surface of the arm *a'*

or *a''*, so as not to prevent the sliding of the movable trammel-point *b'*.

At the free end of preferably the shorter arm *a'* is removably secured one arm of a mitering or centering square *d*, the lower end of the two arms *d'* and *d''* being adapted to enter suitable grooves or channels *a'''* and *a'''* in the other arm *a''* of the main square to prevent lateral movement of the centering-square *d*. At the free end of the other arm *a''* is removably secured a foot-rule *e*, the lower end of which is preferably mitered, as at *e'*. The centering-square *d* is preferably secured to the main square as follows: The arm *a'* is transversely slit or recessed, as at *a''*, and the upper end of one arm *d'* of the centering-square is inserted in this recess, after which a thumb or tightening screw *a'''* is passed through the arm *a'* and the arm *d'*. The rule *e* is preferably secured to the arm *a''* in substantially the same manner, the arm *a''* having a recess or slit *a'''* in which the rule *e* is adapted to slide. The rule *e*, however, is provided with a longitudinally-arranged opening or recess *e''*, through which and the arm *a''* a thumb or tightening screw *a'''* is adapted to be inserted.

The tool as above constructed, consisting of the several instrumentalities used in conjunction with each other, is adapted for a variety of uses or purposes, the principal of which are as follows: The main square *a*, with its levels *a'''* and *a'''*, is adapted for use in all squaring operations, together with plumb-ing and leveling, in the usual manner. The mitering or centering square *d* may be used for either mitering or for obtaining the center of round objects. The trammel-points *b* and *b'* may be used for trammel-ing, gaging, or for tracing circles in the manner of a compass. The center-square has one arm *d'* longer than the other arm *d''*, and this arm *d'* is graduated to inches and fractions of inches and is of particular use in mitering. The foot-rule *e* may likewise be used both for measurements and for mitering.

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

A mechanical tool, comprising a main square having a spirit-level mounted in each

of the arms a' and a^2 thereof, a trammel-
point secured at the angle of the arms of
said square, a centering or mitering square
at one end fitted into a recess of the arm a' ,
5 of said main square and secured by a thumb
or tightening screw and the other end of said
centering or mitering square engaging a
groove formed in the arm a^2 , of said main
square, a movable trammel-point mounted
10 on the arm a^2 , of said main square and held
in required fixed position by means of a thumb

or tightening screw and a slotted graduated
foot-rule pivoted to the free end of the arm
 a^2 , of said main square, all arranged sub-
stantially as and for the purposes described. 15

In testimony whereof I have hereunto set
my signature in the presence of two subscrib-
ing witnesses.

GEORGE M. McELLIOTT.

Witnesses:

J. WALTER DOUGLASS,
THOMAS M. SMITH.