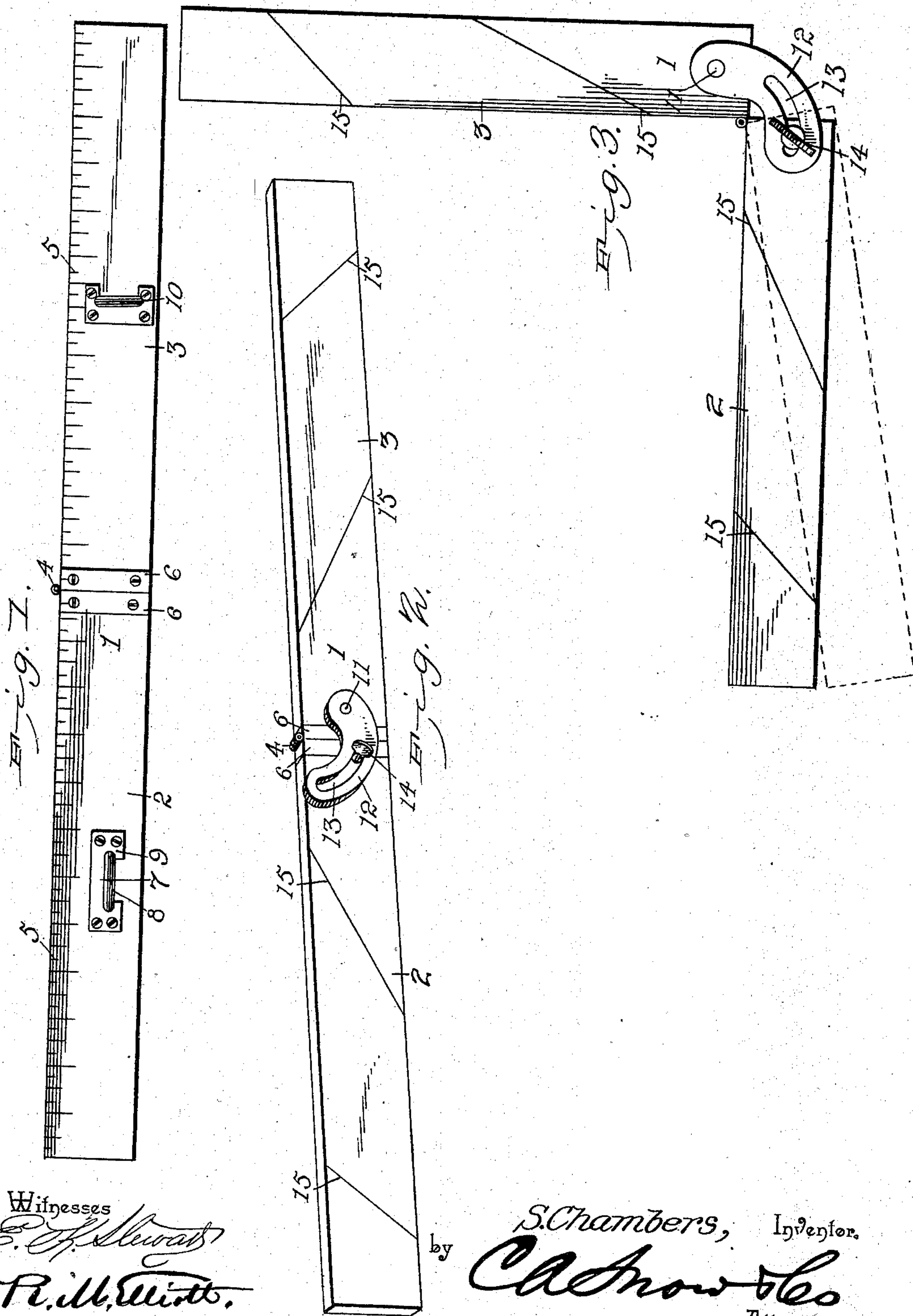


No. 732,827.

PATENTED JULY 7, 1903.

S. CHAMBERS.
COMBINATION TOOL.
APPLICATION FILED AUG. 22, 1902.

NO MODEL.



Witnesses
E. H. Stewart
R. H. Smith

by *S. Chambers,* Inventor.
C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

SILAS CHAMBERS, OF STERLING CITY, TEXAS.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 732,827, dated July 7, 1903.

Application filed August 22, 1902. Serial No. 120,724. (No model.)

To all whom it may concern:

Be it known that I, SILAS CHAMBERS, a citizen of the United States, residing at Sterling City, in the county of Sterling and State of Texas, have invented a new and useful Combination-Tool, of which the following is a specification.

This invention relates to combination-tools.

The object of the invention is in a ready, cheap, thoroughly-feasible and practical manner and in small compass to combine a rule, square, bevel, miter-gage, level, and plumb, the parts to be so combined and arranged as to permit of the use of one without interference with the others.

With these and other objects in view the invention consists in the novel construction and arrangement of parts of a combination-tool such as specified, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like numerals of reference indicate corresponding parts, there is illustrated one form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the spirit thereof, and in the drawings—

Figure 1 is a view in elevation taken from the front side of the tool and showing its parts adjusted for use as a rule and a level and plumb. Fig. 2 is a view in perspective, taken from the rear side of the tool. Fig. 3 is a view in elevation, showing in full lines the adjustment of the parts of the tool when used as a square and in dotted lines the adjustment of the parts when used as a bevel.

Referring to the drawings, 1 designates the tool, comprising in this instance two rule-sections 2 and 3, connected by a hinge 4 and provided on their front faces with the usual division-marks 5. While but two rule-sections are herein shown, it is to be understood that the invention is not to be limited to this number, as they may be increased to four or more and still be within the scope of the invention. At the meeting or abutting ends of the sections are arranged metallic plates 6, which are let into the sections to lie flush

therewith and are provided for the purpose of assuring proper alinement of the sections when open.

Secured to the front face of the section 2 is a spirit-level 7, comprising an ordinary spirit-tube 8, arranged longitudinally of the section and inclosed by a casing 9, associated in any preferred manner therewith, and upon the like face of the section 3 is arranged a similar spirit-level 10, which is disposed transversely of the sections, and thus at right angles to the level 7, and by this disposition of the two tubes provision is made for leveling and plumbing work. To facilitate observation of the bubbles within the tubes, the fluid may have a distinctive color, such as red or the like.

Pivoted at 11 to the section 2 is an arc-shaped locking-plate 12, the free end of which is provided with a curved slot 13, through which passes the shank of a thumb-screw 14, seated in the section 3, the function of this locking-plate being not only to hold the rule-sections in adjusted position when the tool is to be employed as a square or a bevel, but also to hold the said sections in permanent alinement when the tool is to be employed either as a level or as a plumb.

To extend the range of usefulness of the tool, the sections may bear lines 15, arranged at certain angles corresponding to the lines upon which miters are most commonly cut, and to effect adjustment of the tool for this purpose a straight-edge is placed across the face of the two sections, and these are then moved toward or from each other, as the case may be, until the desired corresponding marks 15 aline with the straight-edge, after which the set-screw 14 is tightened to hold the parts in their adjusted positions either as a square or at any desired angle for use as a bevel.

It will be seen from the foregoing description that although the device of this invention is exceedingly simple of construction it will be found thoroughly effective in use for the purpose designed and that it may be manufactured in a ready manner.

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

A tool comprising two rule-sections pivoted together and provided each with angle-marks,

the marks on one section being at an angle equal to the angle of the corresponding marks on the other section but oppositely disposed, and a locking-plate pivoted to one of said
5 sections and adjustably secured to the other and adapted, at all times, to lie wholly within the longitudinal edges of the ruled sections; whereby the tool is adapted for use in preparing miter-boxes and may be brought snugly

against the same without obstruction by the locking-plate.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

SILAS CHAMBERS.

Witnesses:

G. W. ALLARD,

J. W. SWARTS.