

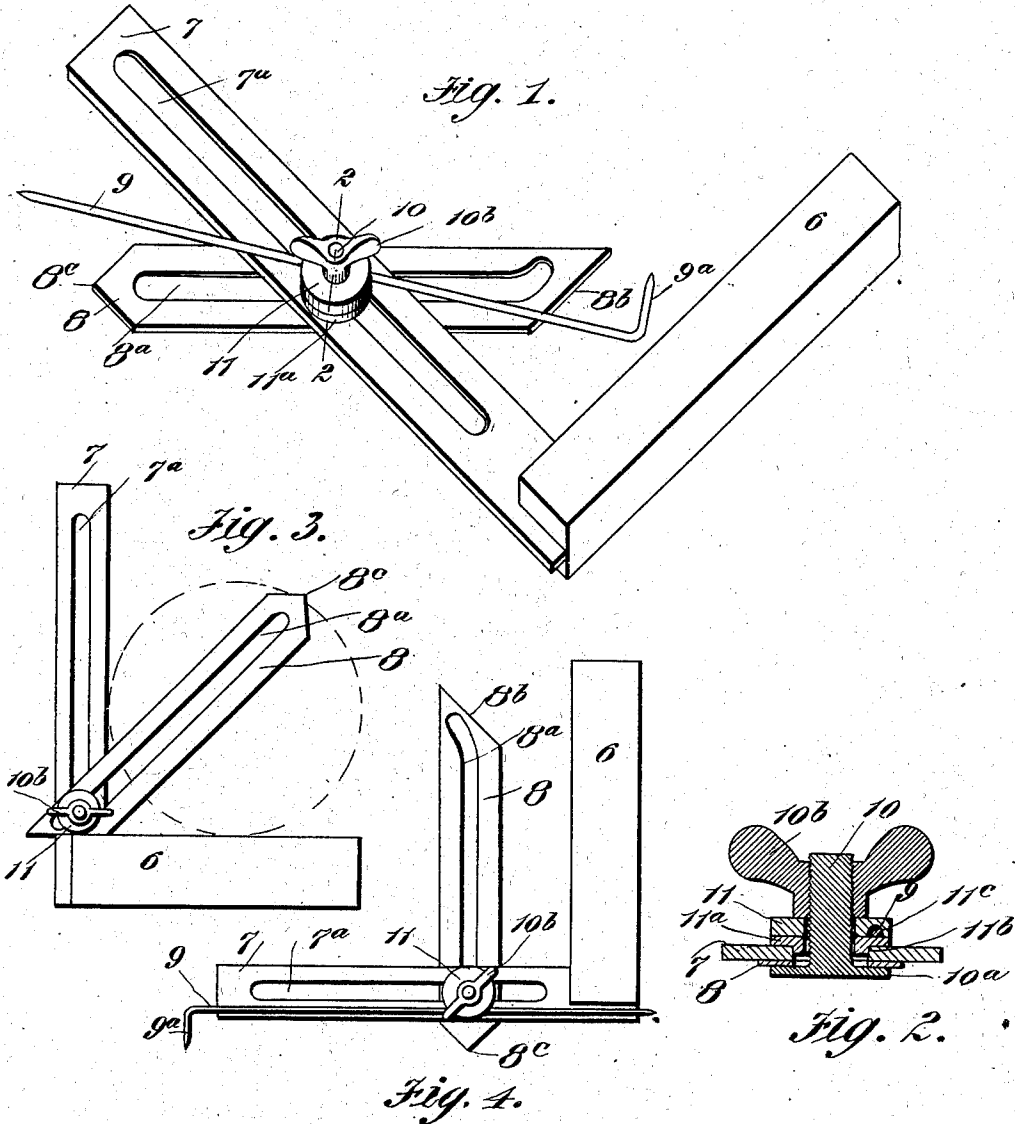
No. 729,663.

PATENTED JUNE 2, 1903.

F. L. RESS:
COMBINATION SQUARE AND BEVEL.

APPLICATION FILED SEPT. 10, 1902.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

FRANK L. RESS, OF CLEVELAND, OHIO.

COMBINATION SQUARE AND BEVEL.

SPECIFICATION forming part of Letters Patent No. 729,663, dated June 2, 1903.

Application filed September 10, 1902. Serial No. 122,851. (No model.)

To all whom it may concern:

Be it known that I, FRANK L. RESS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Combination Squares and Bevels; 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 the figures of reference marked thereon, which form a part of this specification.

The object of this invention is to form an improved combination square, bevel, surface and depth gage, and curve-scriber, suitable for the use of wood and metal workers, pattern-makers, and the like. The article is so constructed that it may be used for a great variety of purposes, some of which will be specified in the following description.

It consists, generally speaking, of a square, one arm of which is slotted to carry an angularly-adjustable blade and a curve-scribing and surface gage rod.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the device. Fig. 2 is a section on the line 2 2 of Fig. 1. Fig. 3 is a view showing the device used as a center-square. Fig. 4 is a view showing its use as a curve-scriber.

Referring particularly to the drawings, the stock of the square is indicated at 6, and the blade fixed thereto, forming the other arm of the square, as indicated at 7. This blade is slotted, as at 7^a, for almost its entire length.

8 indicates a blade which is also slotted, as at 8^a, and this blade is joined to and adjustable angularly with respect to the blade 7. It is particularly useful for finding centers and in striking bevels and miters.

9 indicates a depth gage-rod having an offset end 9^a to get at undercut places and also to scratch the line in curve-scribing. The blade 8 and rod 9 are joined to the blade 7 by means of a sliding head comprising a screw-

bolt 10, having an enlarged head 10^a, which clamps the blade 8 to the square, and upper and lower plates 11 and 11^a under the thumb-nut 10^b. The lower plate is shouldered, as at 11^b, to fit in the slot 7^a and prevent turning of the head when the thumb-nut is tightened. In the upper plate is a half-round groove 11^c to receive the depth-rod. When the thumb-nut is loosened, the upper plate and depth-rod may be turned to any angle in the plane thereof and the depth-rod may be turned on its own axis to bring the offset 9^a to any lateral angle. One end of the blade 8 is beveled, as at 8^b, at an angle of forty-five degrees, and by bringing this end against the stock at the corner the center-square is formed, as shown in Fig. 3. The other end of the blade is beveled two ways to a point 8^c, which may advantageously be used as a center in describing a curve or circle, as illustrated in Fig. 4. The bevels may be at any angle desired. The depth gage-rod is also used for ascertaining the depth of any slot, groove, hole, &c., and for indicating surface measurements.

The combination forms a simple, accurate, and inexpensive tool, which, it is believed, will be of great utility.

What I claim as new is—

1. A combination-tool comprising a square, one arm of which is longitudinally slotted, a slotted blade adjustable longitudinally on the arm and having a pointed end, a curve-scribing rod, and a sliding bolt adjustably clamping the arm, the blade and the rod.

2. A combination-tool comprising a square, a blade and a gage-rod, the blade and gage-rod being adjustable longitudinally and angularly with respect to an arm of the square, and a sliding head on the arm, carrying the rod and blade, and having a binding screw and nut to hold the said parts at adjustment, substantially as described.

In testimony whereof I do affix my signature in presence of two witnesses.

FRANK L. RESS.

Witnesses:

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