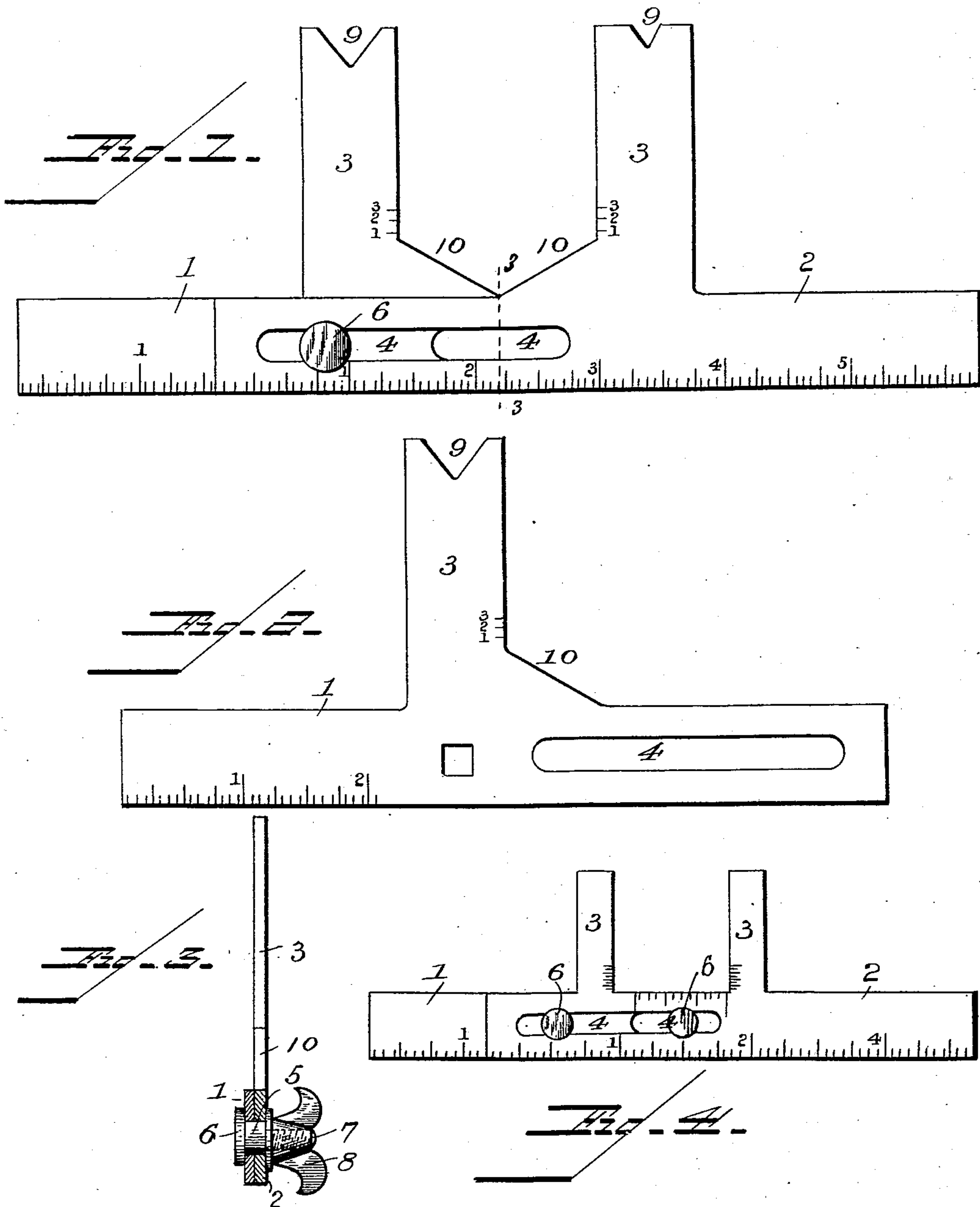


(No Model.)

E. C. STRANGE.
MECHANIC'S TOOL.

No. 563,089.

Patented June 30, 1896.



WITNESSES:
F. L. Curand.
H. L. Coombs

INVENTOR:
Emerson C. Strange,
by Louis Duggan & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

EMERSON C. STRANGE, OF TAUNTON, MASSACHUSETTS.

MECHANIC'S TOOL.

SPECIFICATION forming part of Letters Patent No. 563,089, dated June 30, 1896.

Application filed April 22, 1895. Serial No. 546,718. (No model.)

To all whom it may concern:

Be it known that I, EMERSON C. STRANGE, a citizen of the United States, and a resident of Taunton, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Mechanics' Tools; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to caliper-gages, principally for use by mechanics for various purposes; and its object is to provide an improved device or tool which shall possess superior advantages with respect to simplicity and economy in construction and efficiency in operation.

The invention consists in the novel construction and combination of parts herein-after fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a tool constructed in accordance with my invention. Fig. 2 is a view of one of the sections disconnected from the other. Fig. 3 is a vertical section on the line 3 3, Fig. 1. Fig. 4 is a view similar to Fig. 1, showing a slightly-modified construction.

In the said drawings, the reference-numerals 1 and 2 designate two sections, each consisting of a rectangular plate provided intermediate its ends with a caliper-arm 3 at right angles thereto. Near one end each of these plates is formed with an oblong slot 4, within which works a lug 5, secured to the other plate. One of these lugs, as seen in Fig. 3, is provided with a head 6 and a screw-threaded shank 7, with which engages a thumb-nut 8, by which the sections are held in any position to which they may be adjusted, as will hereinafter appear.

The ends of the arms 3 are formed with V-shaped recesses 9, one of which may be used as a lathe-center gage and the other as a thread-tool gage.

Near the inner end or the junction of the arms with the plates they are formed with

beveled extensions 10, which are employed as gages for grinding twist and flat drills. By sliding the plates back and forth the bevels cross one another, showing the point or center of the drill. They may also be employed for gaging hexagon nuts. At one edge each of said plates or sections 1 and 2 is formed with a graduated scale, and the arms 3 above the extension 10 may also be provided with a scale.

In practice, the two sections are placed side by side with the lug of one engaging with the slot in the other, as seen in Fig. 1. By now sliding the plates back and forth, the distance between the arms may be increased or diminished, as the case may be, so that an object placed between the arms may be readily gaged, its size being determined by the scale of the plates. By tightening the thumb-nut the plates may be securely held in any position to which they may be adjusted. In like manner the size of a nut may be determined by placing it between the caliper-arms. The tool may be also used as an ordinary rule and also as a square, as will be obvious. The two sections being identical in every respect, the tool may be produced at a very small cost.

Having thus fully described my invention, what I claim is—

As an improved article, a mechanic's tool comprising the graduated and slotted rectangular plates, the lugs the heads, the shank and the thumb-nut, the caliper-arms, at right angles to said plates and integral therewith and formed with a graduated scale, the beveled extensions at the junction of said arms and plates, forming a drill-gage, and one of said arms being formed with a V-shaped recess which serves as a lathe-center gage and the other arm formed with a corresponding, but different-sized recess which serves as a thread-tool gage, substantially as described.

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

EMERSON C. STRANGE.

Witnesses:

MARTIN B. HAYES,
GEORGE H. BUSHEE.