

(No Model.)

J. M. POSEY.
COMBINATION DRAWING KNIFE.

No. 594,279.

Patented Nov. 23, 1897.

Fig. 1.

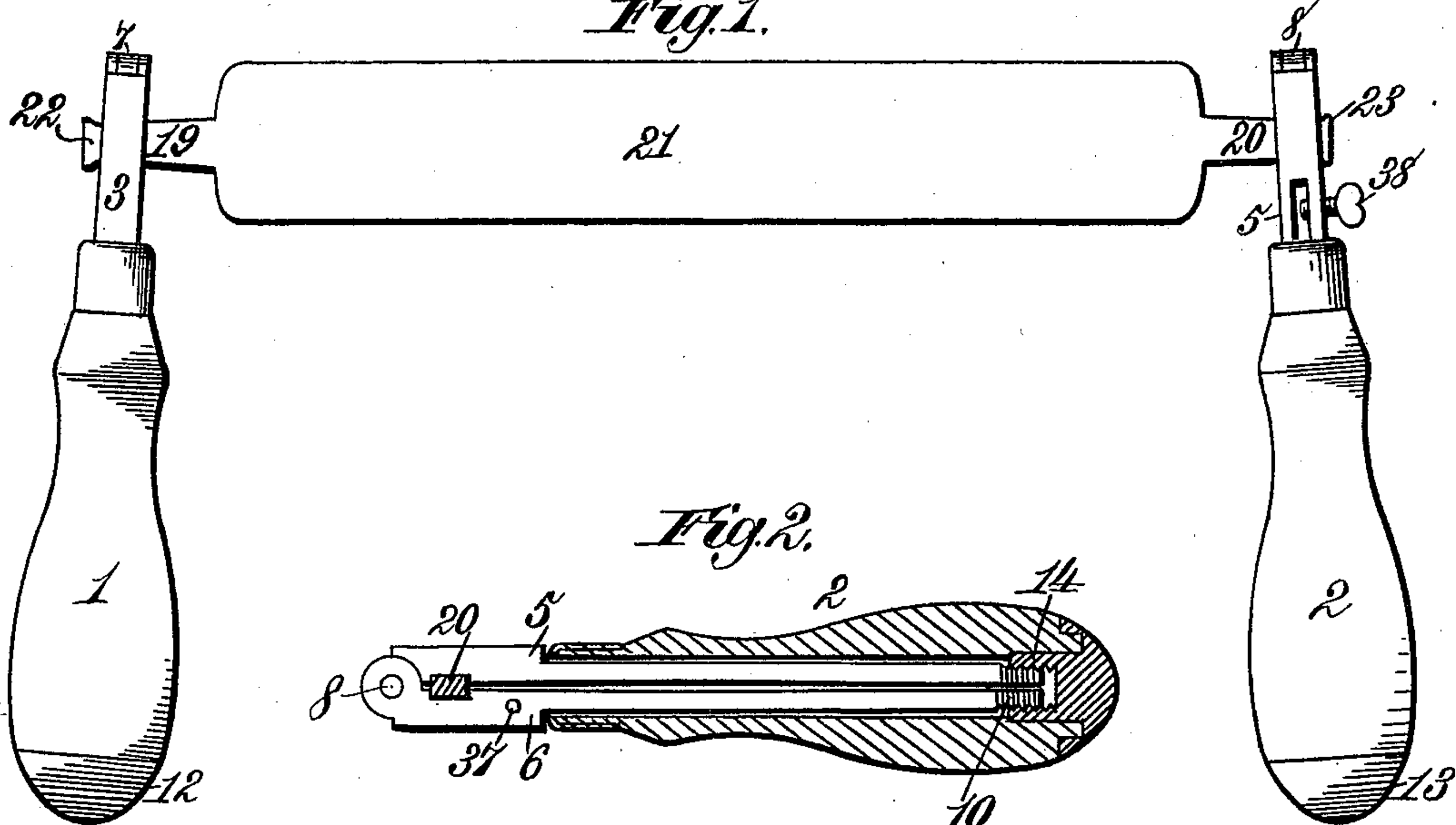


Fig. 2.

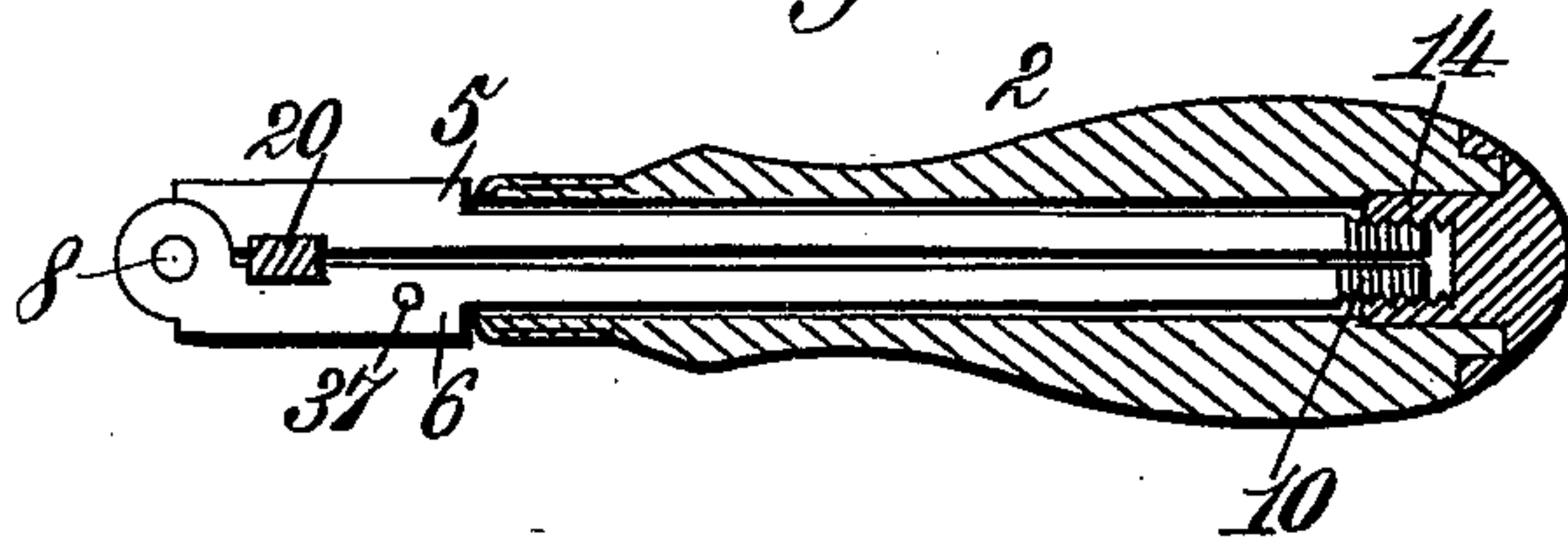


Fig. 3.

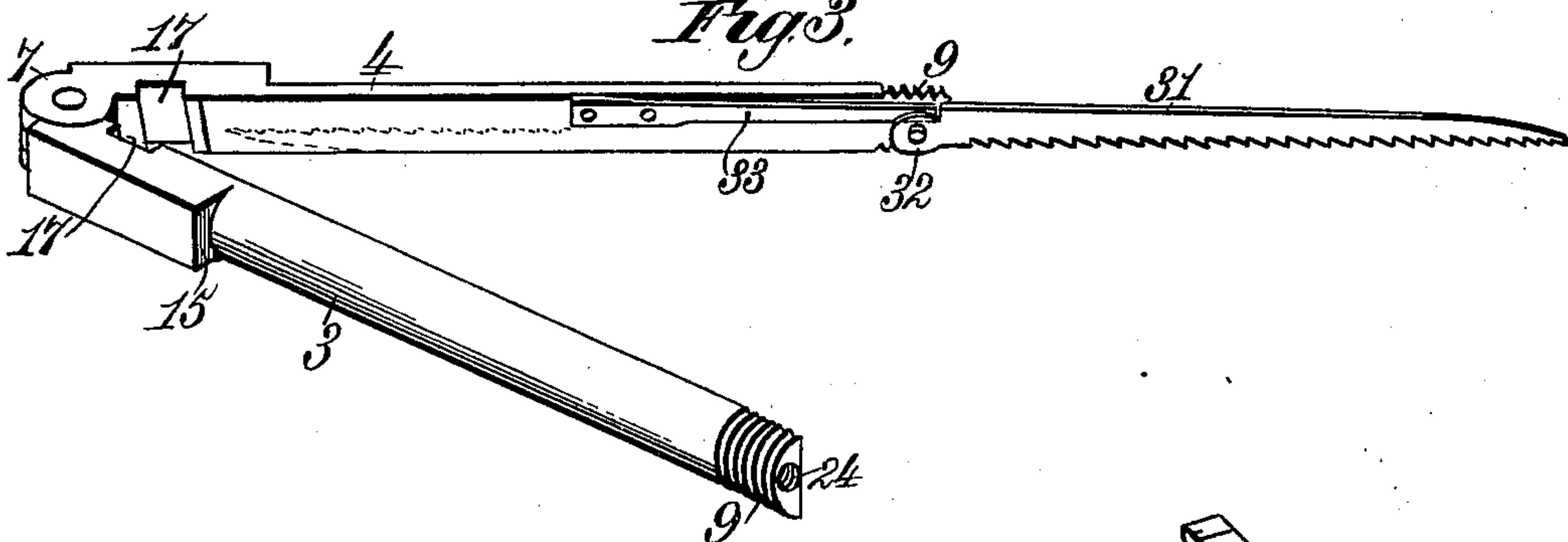


Fig. 4.

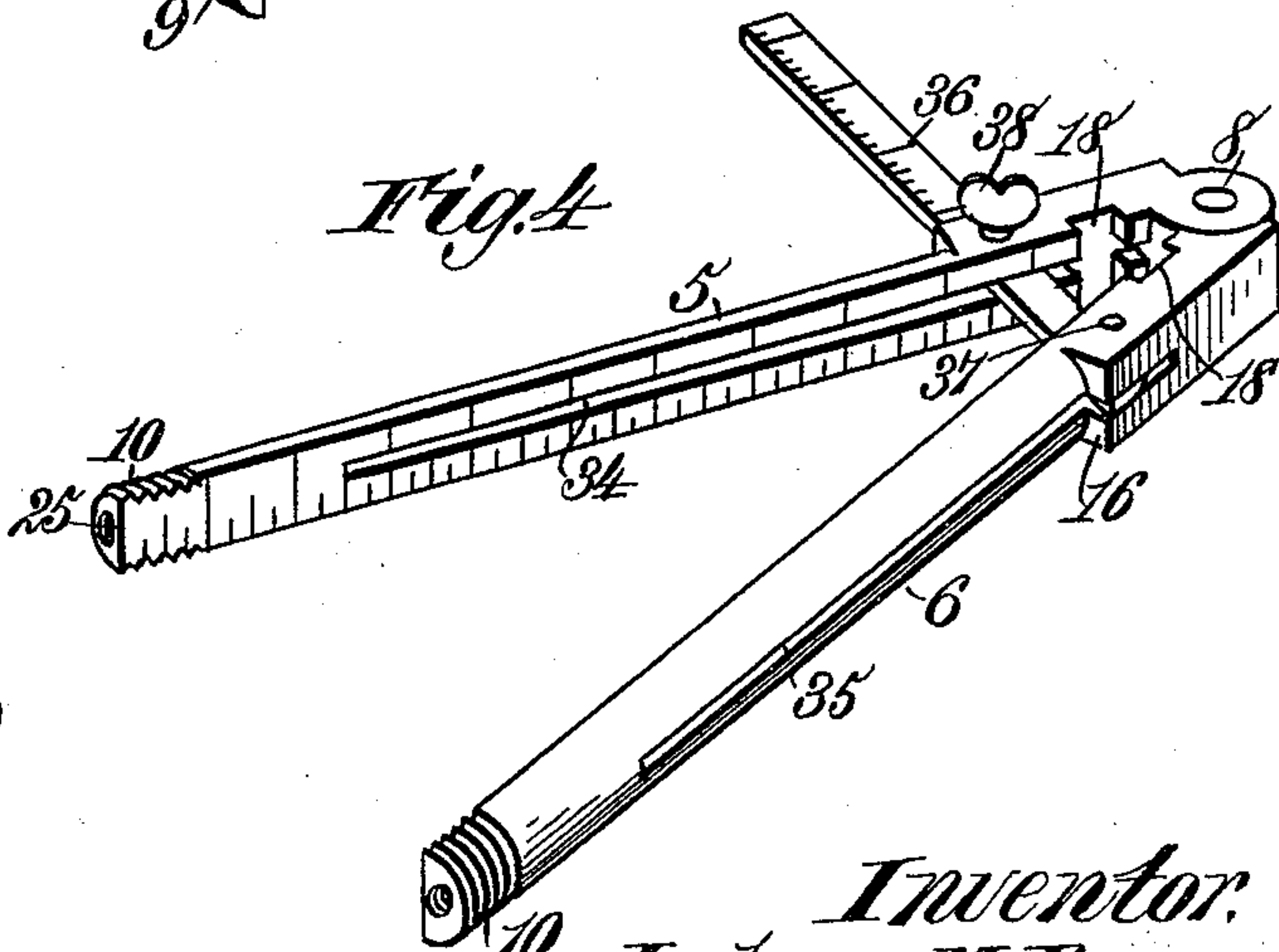
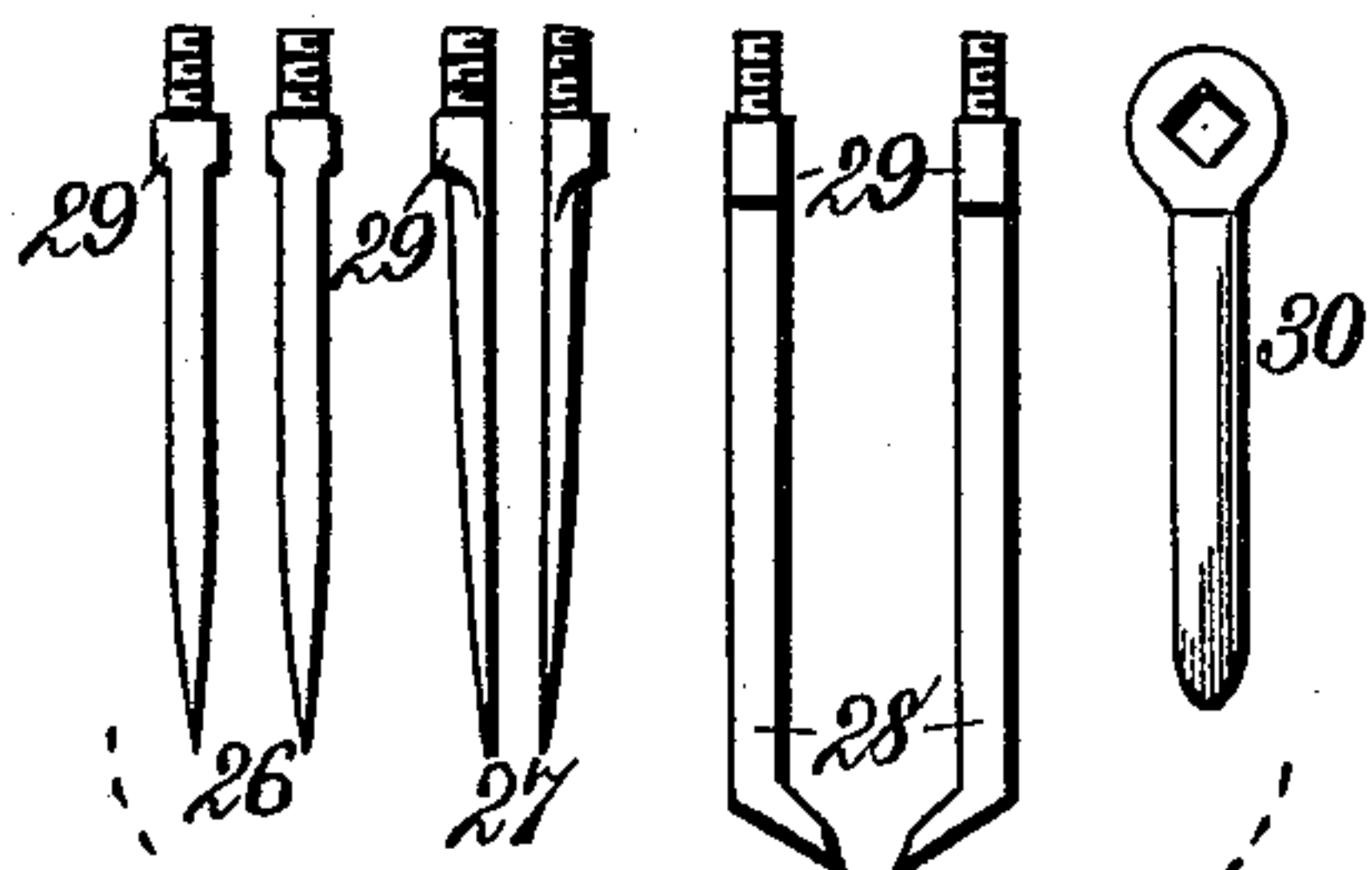


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOSHUA M. POSEY, OF VIVIAN, LOUISIANA.

COMBINATION DRAWING-KNIFE.

SPECIFICATION forming part of Letters Patent No. 594,279, dated November 23, 1897.

Application filed July 22, 1897. Serial No. 645,575. (No model.)

To all whom it may concern:

Be it known that I, JOSHUA M. POSEY, a citizen of the United States, residing at Vivian, in the parish of Caddo and State of Louisiana, have invented new and useful Improvements in Combination Drawing-Knives, of which the following is a specification.

This invention relates more particularly to handles designed for drawing-knives, although parts of the invention are useful in connection with other implements or tools requiring handles.

The chief object of the present invention is to provide a new and improved handle having a removable part constructed to be converted into calipers, compasses, or scribes.

The invention also has for its object to provide new and improved handles having removable shanks which may be connected to a tool, such as a drawing-knife, and may be converted into instruments for sawing, describing circles, scribing, and caliper and other measuring, and laying out or testing square work.

To accomplish these objects, my invention consists in the features of construction and in the combination or arrangement of parts hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a plan view of a drawing-knife having handles constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view of one of the handles. Figs. 3 and 4 are detail perspective views of the two removable shanks of the handles; and Fig. 5 is a view showing in detail the scribe, compass, and caliper legs and the wrench by which they may be screwed into connection with the shank-sections, as will hereinafter appear.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numerals 1 and 2 indicate the handle-grips, which may be composed of wood or other suitable material. The grips are provided with removable shanks composed, respectively, of the shank-sections 3 and 4 and 5 and 6. The two sections of each shank are

of substantially the same dimensions and are semicircular in cross-section. The sections of the shanks are pivotally connected at one extremity by knuckle-joints, as at 7 and 8, and at their opposite extremities they are externally screw-threaded, as at 9 and 10. The two sections of each shank can be opened and closed like a butt-hinge, and when closed their flat sides lie near to one another and the shank presents a cylindrical form. The handle-grips are provided at their outer ends with metal caps 12 and 13, formed integral or otherwise provided with screw-nuts, as at 14, into which the screw-threaded end of either shank may be screwed for connecting the parts together to constitute a handle for a drawing-knife.

The shanks are provided at a short distance from their knuckle-joints with lateral shoulders 15 and 16, which firmly come to rest against the ferruled ends of the handle-grips when the shanks are tightly screwed into the screw-nuts fixed in the outer ends of the grips. The shanks are provided in their flat sides, near the knuckle-joints, with angular grooves or recesses 17 and 18, to receive and clamp the tapering tangs 19 and 20, extending from the ends of the drawing-knife. The tangs are preferably shouldered at their outer extremities, as at 22 and 23, so that when the shanks of the handles are clamped upon the tangs the handles cannot shift off the tangs. The shanks are applied to the tangs while removed from the handle-grips, and subsequently the latter are tightly screwed upon the shanks, thereby firmly connecting the handles to the drawing-knife.

The ends of the shank-sections opposite the knuckle-joints are provided with longitudinal screw-threaded sockets, as at 24 and 25, into which may be screwed the screw-threaded ends of scribe-legs 26, or compass-legs 27, or caliper-legs 28. These legs are preferably provided with angular or squared portions 29, adapted to be engaged by a small wrench, which may be utilized to screw the legs into and out of engagement with the screw-sockets. By this means when one of the shanks is removed from a handle-grip it may be converted into compasses, calipers, or scribes.

The shank-section 4 of one of the shanks is

provided with a keyhole-saw 31, pivoted to one end of the shanks, as at 32, and adapted to fold and unfold, as will be understood by reference to Fig. 3. The full lines show the saw unfolded for use and the dotted lines indicate the saw in its folded position. The pivoted end of the saw is acted upon by the free extremity of a leaf-spring 33, attached to the shank 4, for the purpose of holding the saw in its folded and unfolded positions.

The flat sides of the shank-sections 5 and 6 are graduated to provide a measuring-rule, (see Fig. 4,) and the shank-sections are constructed with longitudinal slots 34 and 35. A graduated arm 36 is pivoted at one extremity, as at 37, in the end of the slot 35 nearest the knuckle-joint 8, and this arm is susceptible of swinging through the slot 34 and to be engaged by a set-screw 38, carried by the shank-section 5 for the purpose of holding the shank-sections 5 and 6 in any position to which they may be adjusted in the use of the instrument, as calipers, compasses, or scribes. The two shank-sections 5 and 6 may be adjusted exactly at right angles to one another and secured in such position by the arm 36 and set-screw 38 for the purpose of converting the shank into a try-square for laying out or testing square work.

The graduated flat sides of the shank-sections 5 and 6 can be used for ordinary rectilinear measurements.

Having thus described my invention, what I claim is—

1. An implement-handle, consisting of a hollow grip, and a shank removably fitted in the grip and composed of two shank-sections constructed to engage the implement, jointed together at one end and having the other end detachably engaged with an internal part of the grip, substantially as described.

2. An implement-handle, consisting of a hollow grip, and a shank removably fitted in the grip and composed of two shank-sections constructed to engage the implement, jointed together at one end, and having the other end detachably engaged with an internal part of the grip and constructed with screw-sockets to receive interchangeable caliper, compass and scriber legs, substantially as described.

3. An implement-handle, consisting of a hollow grip having a screw-nut fixed in its outer end, and a shank fitting the grip and composed of two shank-sections constructed to engage the implement, jointed together at one end and having screw-threads at the other end engaging the screw-nut in the grip, substantially as described.

4. An implement-handle, consisting of a hollow grip having a screw-nut fixed in its outer end, and a shank fitting the grip and composed of two shank-sections graduated for measurements, jointed together at one end and having the other end provided with screw-threads to engage the screw-nuts and screw-sockets to receive interchangeable cali-

per, compass, and scriber legs, substantially as described.

5. An implement-handle, consisting of a hollow grip, and a shank removably fitted in the grip and composed of two longitudinally-slotted shank-sections constructed to engage the implement, jointed together at one end and having means at the other end detachably engaged with an internal part of the grip, each shank-section having a screw-socket at one end to receive interchangeable caliper, compass and scriber legs, and one shank-section having an arm pivoted in its slot and movable through the slot in the other shank-section, substantially as described.

6. A handle for a drawing-knife, consisting of a hollow grip having a screw-nut fixed in its outer end, and a shank removably fitted in the grip and composed of two shank-sections jointed together at one end, having screw-threads at the other end to engage the nut, and recessed near their jointed parts to receive and clamp parts of the drawing-knife, substantially as described.

7. The combination with a drawing-knife having end tangs, of handles each composed of a hollow grip having a nut fixed in its outer end, and a shank fitted in the grip and composed of two shank-sections jointed together at one end, having screw-threads at their other end to engage the nut and recessed near their joint to receive and clamp the tangs of the drawing-knife, substantially as described.

8. The combination with a drawing-knife having end tangs, of handles composed of hollow grips, and shanks removably fitted in the grips and each composed of two shank-sections jointed together at one end, having means at their other end to detachably engage an internal part of the grip, and recessed near their joint to receive and clamp the tangs of the drawing-knife, a section of one shank carrying a folding saw-blade and the sections of the other shank having longitudinal slots with an arm pivoted in one slot and movable through the other, substantially as described.

9. An implement-handle, consisting of a hollow grip, and a shank removably fitted in the grip and composed of two longitudinally-slotted shank-sections jointed together at one end, and having at the other end means to detachably engage an internal part of the grip, an arm pivoted in the slot of one shank-section and movable through the slot in the other shank-section, and a set-screw for engaging the arm to convert the shank into a try-square, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOSHUA M. POSEY.

Witnesses:

F. M. POSEY,
J. C. CHILES.