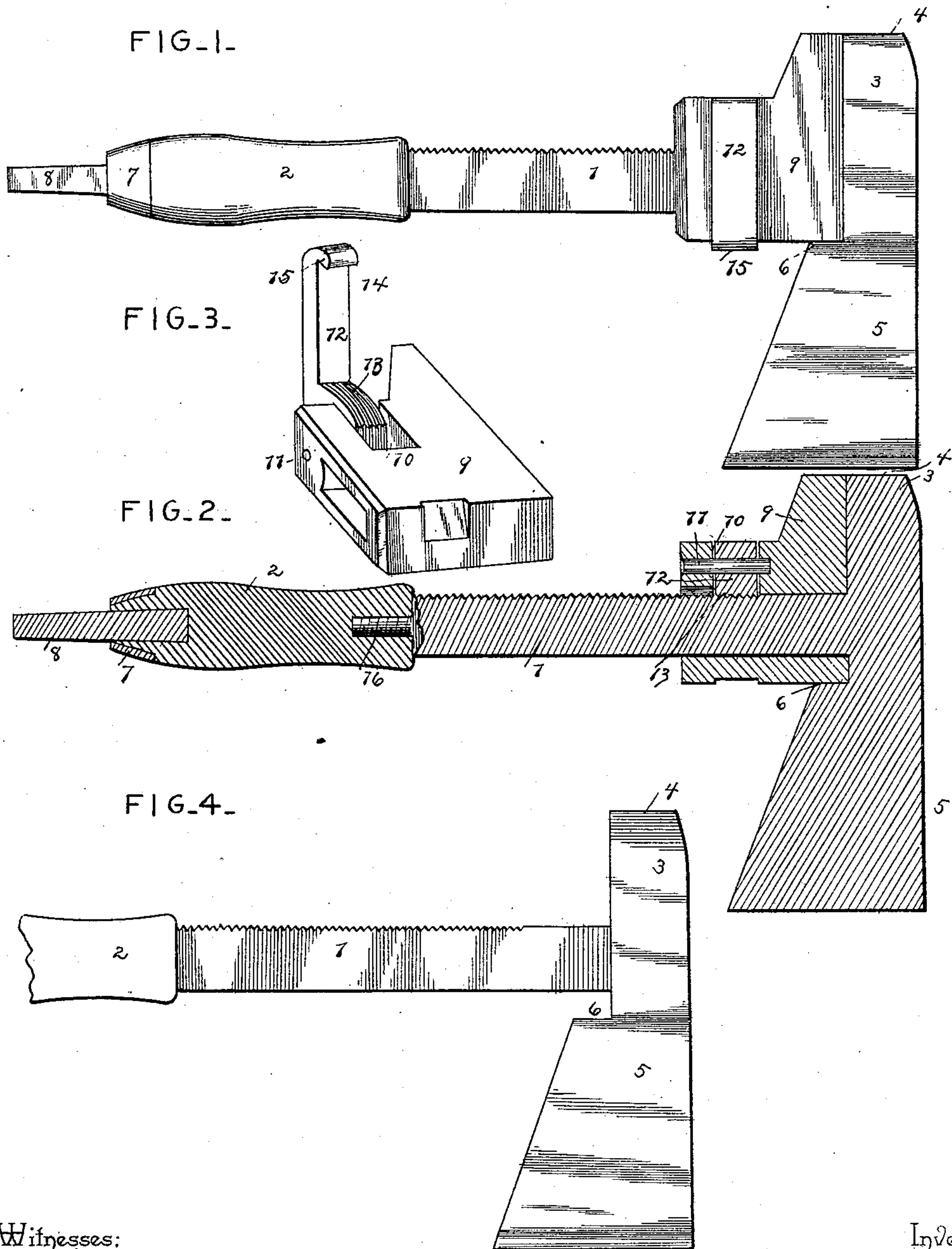


(No Model.)

T. W. SOUTHARD.
COMBINATION TOOL.

No. 453,387.

Patented June 2, 1891.



Witnesses:

C. S. Owen

W. S. Duwall

By his Attorneys,

C. A. Snow & Co.

Inventor
Thomas W. Southard.

UNITED STATES PATENT OFFICE.

THOMAS W. SOUTHARD, OF MOUNT STERLING, OHIO.

COMBINATION-TOOL.

SPECIFICATION forming part of Letters Patent No. 453,387, dated June 2, 1891.

Application filed March 23, 1891. Serial No. 386,131. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. SOUTHARD, a citizen of the United States, residing at Mount Sterling, in the county of Madison and State of Ohio, have invented a new and useful Combination-Tool, of which the following is a specification.

This invention relates to combination-tools, the objects being to combine in a single device several distinct and useful tools, whereby said several tools will not occupy any more space than would any one of said tools, cannot become misplaced or separated, and are always conveniently at hand ready for use.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a side elevation of a combination-tool constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section. Fig. 3 is a detail in perspective of the sliding jaw. Fig. 4 is an elevation of the tool, the sliding jaw removed.

Like numerals of reference indicate like parts in all the figures of the drawings.

In practicing my invention I employ a rectangular shank 1, the lower end of which receives a handle 2, and at the upper end of the shank there is located a head 3. This head at one side of the shank forms a combined rigid jaw and hammer-face 4, while at the opposite side of the shank the head is flattened to form a blade 5. The blade 5 is of hatchet shape and terminates at its lower rear end short of the shank or stop of the wrench, thereby forming a recess 6.

The lower end of the handle 2 has fitted thereon a ferrule 7, from which extends a screw-driving blade 8. By grasping the tool at the head 3 screws may be driven or withdrawn in the usual manner of a screw-driver.

9 designates a sliding jaw adapted to co-operate with the jaw 4 of the head 3 and to fit within the recess 6, so as to lie parallel with the face of the jaw 4 and combine therewith to form the hammer-face, and when in this position it also re-enforces the blade 5. The edge of the sliding jaw is provided with a recess 10, in which is pivoted by a pin 11

the inner end of an eccentric lever 12. The lever is of L shape and has its inner disk portion provided with a series of teeth 13, which, when the handle 14 of said lever is thrown against the side of the sliding jaw, engage with similar teeth formed in the corresponding or adjacent edge of the stock or shank 1. In this manner the jaw may be locked at any point along the shank, and hence adapted to operate upon any size of nut. The extremity of the lever is provided with a nib or shoulder 15, by which it may be locked in position.

From the above it will be seen that I provide a wrench that may be rapidly adjusted and easily locked in any of its adjusted positions for the purpose of operating upon nuts of various sizes, and that the tool may be used as an ordinary screw-driver or as a hammer or hatchet, and the latter with or without the removal of the sliding jaw. To accomplish the latter—that is, the removal of the jaw—the handle 2 is unscrewed from the lower reduced end 16 of the stock, the lever 12 swung outwardly, and the sleeve withdrawn from the stock.

Having described my invention, what I claim is—

1. The herein-described wrench, consisting of a shank terminating at its upper end in a head extending to opposite sides of the shank and at one end flattened and beveled to form a hatchet and at the other end a combined fixed jaw and hammer, and a sliding jaw adjustably mounted upon the shank, substantially as specified.

2. The herein-described wrench, consisting of a shank terminating at its upper end in a head extended beyond the opposite sides of the shank and terminating in a hatchet and at the opposite end in a combined hammer and fixed jaw, a handle removably screwed upon the lower end of the shank, and an adjustable jaw mounted upon the shank and removable from the same, substantially as specified.

3. The herein-described wrench, consisting of a shank terminating at its upper end in a fixed jaw and having that edge below the same provided with a series of teeth formed in the shank, an adjustable jaw mounted for

sliding on the shank and provided with a recess, and an L-shaped eccentric lever having its inner end toothed to engage the teeth of the shank and its free end provided with a
5 shoulder for engaging the rear side of the jaw when the lever is closed, substantially as specified.

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

THOMAS W. SOUTHARD.

Witnesses:

D. T. SNYDER,

T. S. ALKIRE.