(No Model.)

I. B. TRIPP.

WRENCH.

No. 587,624. Patented Aug. 3, 1897.

Fig. 1.

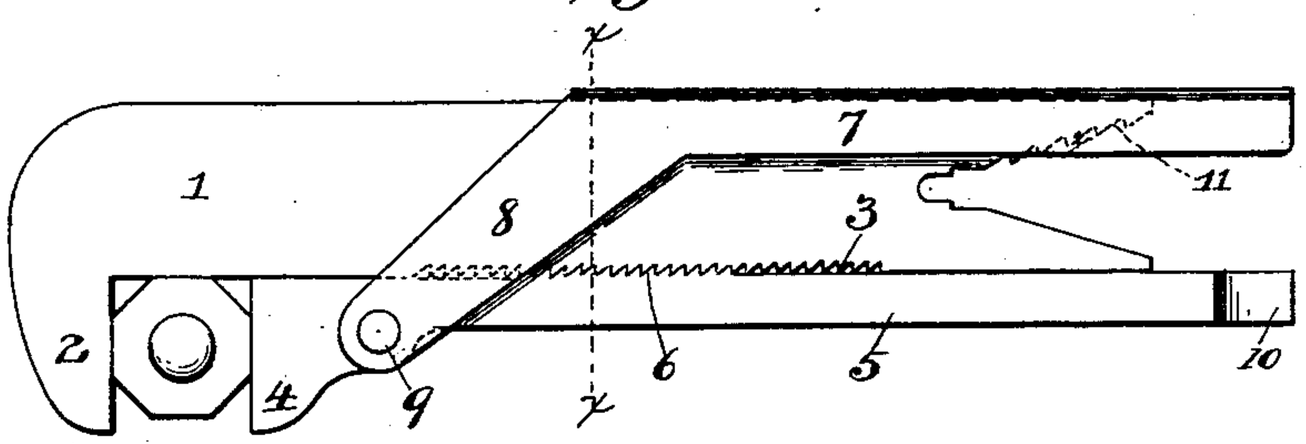


Fig. 2.

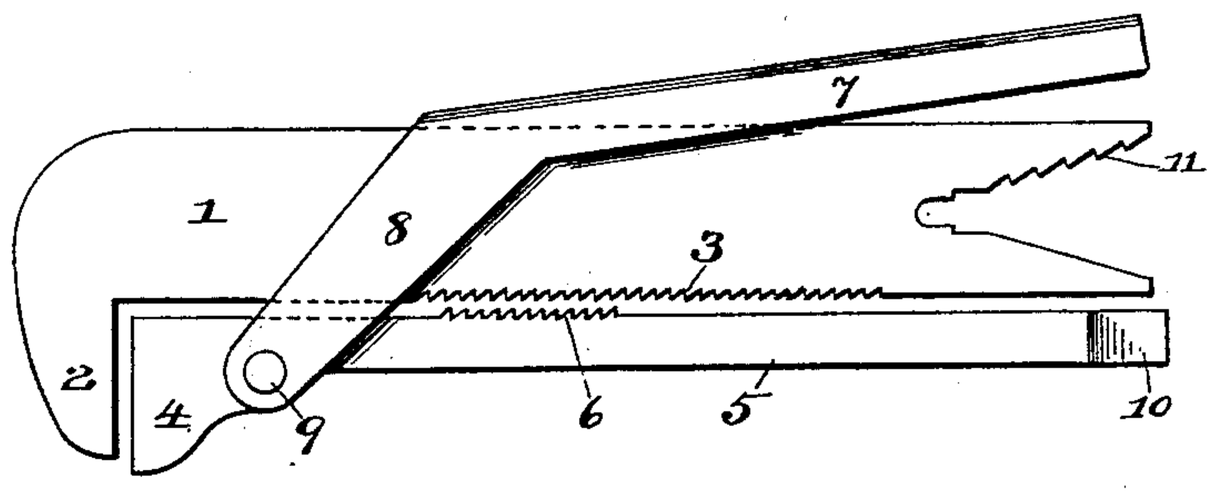
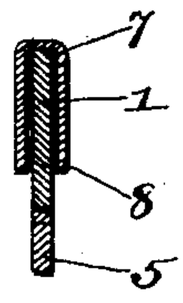


Fig. 3.



Witnesses.

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WRENCH.

SPECIFICATION forming part of Letters Patent No. 587,624, dated August 3, 1897.

Application filed April 16, 1897. Serial No. 632,447. (No model.)

To all whom it may concern:

Be it known that I, IRA B. TRIPP, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Wrenches; and I do hereby declare the following to be 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.

My invention relates to improvements in sliding-jaw wrenches which shall be simple and cheap in construction and at the same time very powerful in operation and easy of manipulation.

The invention also contemplates the combination of several wrenches of different sizes and conformations. For instance, with the preferred form of adjustable wrench there may be utilized a smaller nipple-wrench and also an alligator-wrench. Other useful tools may further be combined with the improved wrench without affecting its operation or inconveniencing the operator. For example, one of the extremities of the wrench may be so formed into an effective screw-driver, as I shall describe.

In order to better understand the nature of the invention, attention is directed to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a side view of the device, the parts being assembled and shown as in operation. Fig. 2 is a similar view, the parts being slightly separated, as when a nut is being grasped; and Fig. 3 is a section taken on the lines *x x* of Fig. 1.

In all of the several views like parts are indicated by the same numerals of reference.

The entire device is made of metal, preferably of sheet-steel, stamped to the proper shape. The body portion 1 of the wrench is provided with the fixed jaw 2, formed integral with it at one extremity, and with the teeth or serrations 3 on one edge extending from adjacent to the jaw to a point near the other extremity of the body. The sliding jaw 4 of the wrench is formed upon one end of the part 5, which is provided with teeth 6, similar to the teeth 3. An operating-lever 7, which is constructed of a single sheet of metal bent upon itself to the shape shown, has downwardly-extending legs 8, which straddle the body 1 and are pivoted at 9 to the sliding jaw 4.

The parts being placed in the position shown in Fig. 2 can be adjusted upon the nut, which will be firmly engaged between the jaws, the lever 7 being held in engagement with the body, as shown in Fig. 1, to thereby retain the teeth 3 and 6 tightly together. This takes place as a natural result of the grasping of the wrench in the hand and effectively locks the jaws.

In order to increase the utility of the device, I may grind the end of the part 5 down to a sharpened edge, forming a screw-driver 10, which can very handily be used when the part 5 is maintained in a position at right angles to the body 1 or is removed therefrom.

An alligator-wrench 11 may also be formed upon the extremity of the body 1. By cutting away the body within the alligator-wrench a nipple-wrench will be formed for turning nuts too small to be readily grasped by the jaws of the adjustable wrench, and which will further increase the utility of the device.

Having now described my invention, what I claim as new therein, and desire to secure by Letters Patent, is as follows:

In a sliding-jaw wrench, the combination with the body having the fixed jaw, and having one edge toothed or serrated, of a sliding jaw having similar teeth adapted to engage with those in the body, and a locking-lever carried on the opposite side of the body from the sliding jaw, having legs straddling the said body and pivoted to the said sliding jaw, substantially as set forth.

This specification signed and witnessed this 20th day of February, 1897.

IRA B. TRIPP.

Witnesses:
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