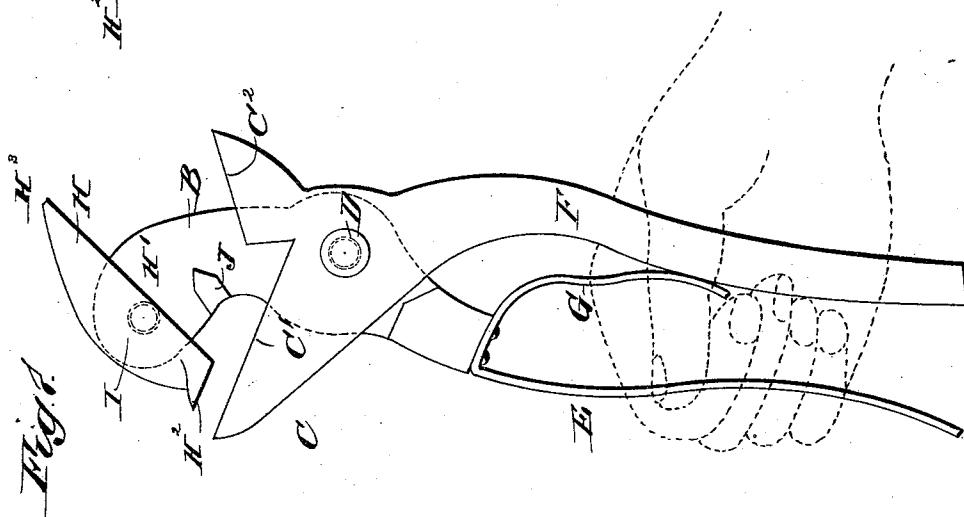
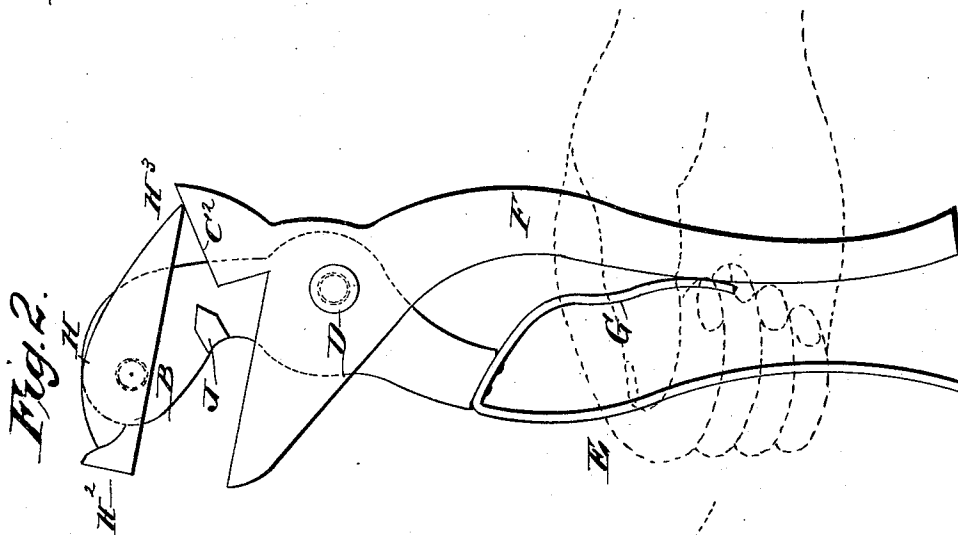
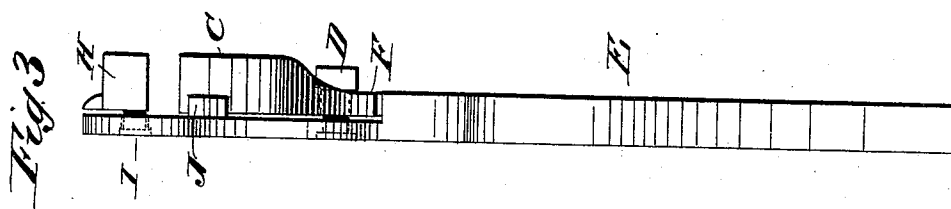


(No Model.)

W. L. GIBSON.
WRENCH.

No. 437,589.

Patented Sept. 30, 1890.



WITNESSES:

J. McArdle
C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE.

WALTER L. GIBSON, OF TURNBULL, ASSIGNOR TO HIMSELF, AND JAMES H. LEE, OF OVIEDO, FLORIDA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 437,589, dated September 30, 1890.

Application filed June 4, 1890. Serial No. 354,228. (No model.)

To all whom it may concern:

Be it known that I, WALTER LEE GIBSON, of Turnbull, in the county of Brevard and State of Florida, have invented a new and Improved Wrench, of which the following is a full, clear, and exact description.

The invention relates to wrenches such as shown and described in Letters Patent No. 378,585, granted to me February 28, 1888; and the object of the invention is to provide a new and improved wrench of such like kind in which the position of the movable block is changed by the opening of the movable jaw.

The invention consists of a fixed jaw, a block pivoted thereon, and a movable jaw provided with an additional face adapted to engage one end of the said block.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement as adjusted for receiving small articles. Fig. 2 is a like view of the same as arranged for receiving larger articles, and Fig. 3 is an edge view of the same.

The improved wrench A is provided with the jaw B, on which is held the movable jaw C by means of a pivot D. The jaws B and C are provided with the handles E and F, of which the former is made of spring-steel secured to the jaw B and having an extension G extending to the other handle F for pressing the two handles apart to open the jaws. The article to be grasped is not clamped directly by the movable and fixed jaws, but between the movable jaw C and the block H, having a pivot-pin I fitted to turn in suitable bearings in the upper end of the jaw B. The movement of this pivoted block H is limited by a lug J, formed on the fixed jaw B, as is plainly shown in the drawings.

The block H is provided with a long face H', arranged tangentially to the pivot-pin I, and also provided with a face H², extending

at or nearly at right angles to the face H' and a considerable distance away from the pivot-pin. The two faces H' and H² can be arranged parallel to the clamping-face C' of the movable jaw C, as is plainly indicated in Figs. 1 and 2. When the face H² is parallel to the face C', the wrench is adapted for clamping small articles, as the two faces C' and H² are near together. When the face H' is parallel to the face C', as is plainly shown in Fig. 2, then the wrench is adapted for clamping larger articles, and then the end H³ rests on a face C², formed on the movable jaw C at an angle to the face C' and on the opposite side of the pivot-pin D. When the jaws are closed, the end H³ rests at or near the inner end of the face C², and when the operator permits the handles E and F to swing apart the face C² presses against the end H³ of the block H, so that the latter swings on its pivot-pin I in such a manner that its face H' remains parallel with the face C² until the opening between the two faces C' and H' is sufficient to permit the entrance of the article to be clamped. When the article has passed between the two faces, the handles E and F are pressed together, so that the article is clamped between the face C' of the movable jaw C and the face H' of the pivoted block H. It will thus be seen that in opening the jaw C the pivoted block H is moved to the proper position at the same time by the action of the face C² of the movable jaw on the said block H.

The handle E is preferably made, as described, so that it gives when pressed to clamp an article until it abuts against the other handle.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a wrench, the combination, with a fixed jaw, of a movable jaw pivoted thereon and provided with two faces, and a block pivoted on the said fixed jaw and adapted to be engaged at one end by one of the said faces, substantially as shown and described.

2. In a wrench, the combination, with a fixed jaw, of a movable jaw pivoted thereon

and provided with two faces standing at angles to each other and arranged at opposite sides of the pivot connecting the movable with the fixed jaw, and a block having a long
5 clamping-face and pivoted to the fixed jaw, the said face of the block being movably parallel with the clamping-face of the movable

jaw, the end of the said block resting on the other face of the said movable jaw, substantially as shown and described.

WALTER L. GIBSON.

Witnesses:

ANNA JOHNSON,
T. A. JOHNSON.