

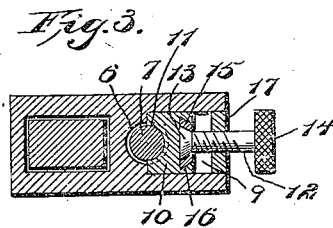
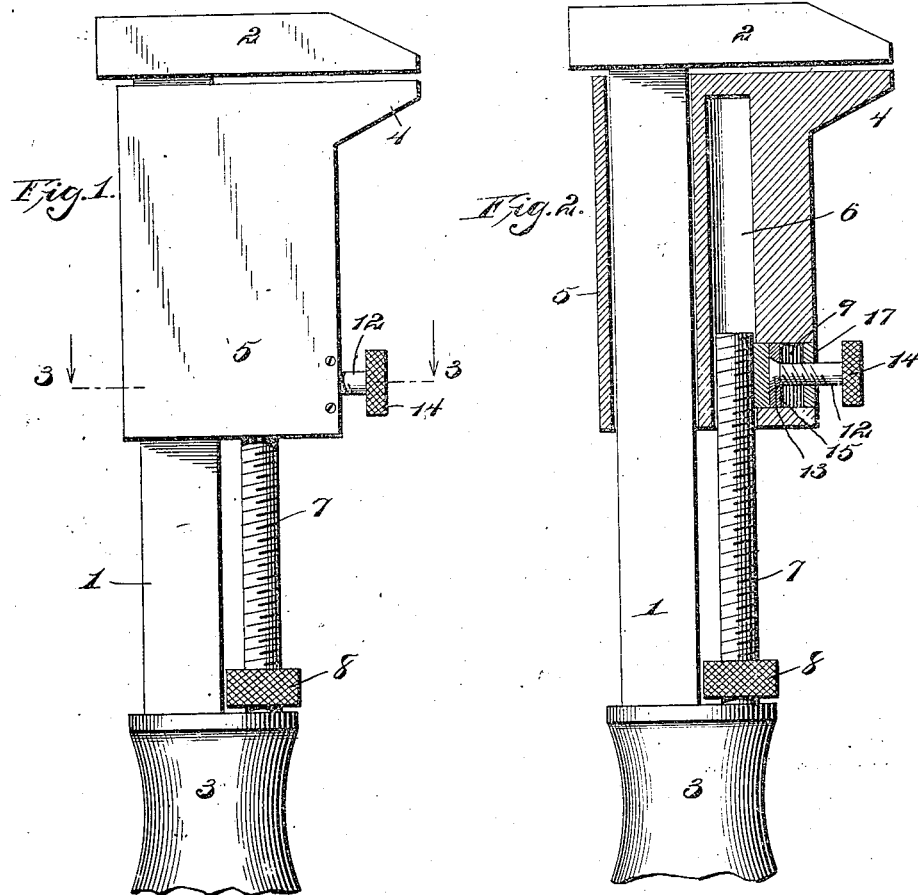
No. 648,803.

Patented May 1, 1900.

B. SHAW.
WRENCH.

(Application filed Nov. 24, 1899.)

(No Model.)



Witnesses
Louis D. Heinrichs
B. F. Funk

Inventor
Burrows Shaw
By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE,

BURROWS SHAW, OF DORCHESTER, NEW JERSEY.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 648,803, dated May 1, 1900.

Application filed November 24, 1899. Serial No. 738,164. (No model.)

To all whom it may concern:

Be it known that I, BURROWS SHAW, a citizen of the United States, residing at Dorchester, in the county of Cumberland and State of New Jersey, have invented certain new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates to monkey-wrenches; and its object is to provide a device of this character of simple and inexpensive construction which may be quickly adjusted without the revolution of the screw employed in the ordinary wrench.

The invention consists in a freely-movable unthreaded jaw and improved means for securing said jaw at any position to which it may be adjusted.

The characteristic features of the invention and its details of construction will be fully described hereinafter and defined in the appended claim, in connection with the accompanying drawings, which form a part of this specification.

In the drawings, Figure 1 is a side elevation of a wrench embodying my invention. Fig. 2 is a vertical section of the same, and Fig. 3 is a horizontal section on the line 3 3 of Fig. 1.

The reference-numeral 1 designates the body portion or bar of the wrench, provided with the usual fixed jaw 2 and handle 3.

4 designates the movable jaw, formed integral with a casing or sleeve 5, through which the bar 1 extends. The casing 5 is formed with a longitudinal circular opening 6 to receive a screw 7, supported at its lower end upon the upper end of the handle 3 and provided with a fixed thumb-nut 8.

The wall of the casing 5 near its lower end is formed with a transverse opening 9, communicating with the opening 6, and within said transverse opening is arranged a block 10, formed with a semicircular threaded bearing 11 for the screw, said bearing 11 cooperating with the opening 6 to form a complete circular bearing for the screw 7.

12 is a screw having its head 13 swiveled to the block 10 and its outer end provided with a thumb-nut 14.

To swivel the head of the screw 12 to the

block, a dovetail washer 15 is slipped over the screw before the nut 14 is secured in place, and the outer face of the block 10 is formed with a dovetail recess 16 to receive the washer 15, as shown in Fig. 3.

The outer side of the opening 9 is closed by a plate having an internally-threaded opening 17, through which the screw 12 passes, said plate being secured by suitable screws to the casing.

The construction thus described permits the casing 5 and its jaw 4 to be quickly moved to the position desired, after which the swiveled screw 12 is turned to force the block 10 firmly against the screw 7, the threads of said block engaging those of the screw. If the threads of the semicircular face or bearing 11 of the block do not firmly engage the threads of the screw 7, a slight turn of the latter will effect the necessary engagement without moving the jaw 4.

I would have it understood that the invention is not restricted to the specific means shown for securing the screw 12 to the block, but that I reserve the right to make all such changes and modifications as may properly fall within the scope of the appended claim.

I claim—

A wrench comprising a fixed jaw; a movable jaw having an integral casing formed with a sleeve through which the bar of the fixed jaw extends, and with an unthreaded longitudinal opening parallel to the sleeve, and a transverse opening communicating with said longitudinal opening; a screw arranged within said longitudinal opening; and means for clamping the movable jaw comprising a block arranged within said transverse opening, and threaded on its inner surface to engage said screw; a screw swiveled to said block, and a plate for closing the transverse opening having an internally-threaded opening for the passage of the clamping-screw.

In testimony whereof I affix my signature in presence of two witnesses.

BURROWS SHAW.

Witnesses:

CHAS. W. SHARP,
DALLAS COMPTON.