

No. 660,415.

Patented Oct. 23, 1900.

G. B. CARTER.
WRENCH.

(Application filed Apr. 18, 1900.)

(No Model.)

FIG. 1.

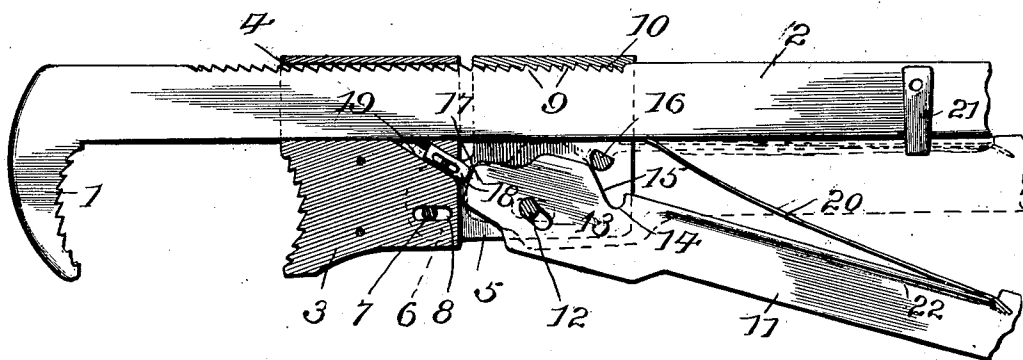


FIG. 2.

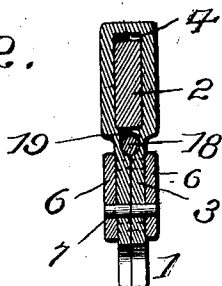
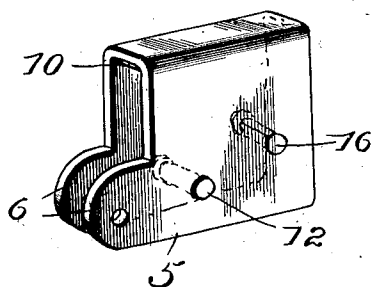


FIG. 3.



Witnesses

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WRENCH.

SPECIFICATION forming part of Letters Patent No. 660,415, dated October 23, 1900.

Application filed April 18, 1900. Serial No. 13,331. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. CARTER, a citizen of the United States, residing at Petersburg, in the county of Dinwiddie and State of Virginia, 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, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to wrenches of the sliding-jaw type; and it has for its principal object to produce a wrench of the character mentioned which will be simple and inexpensive to construct and effective and durable in use.

Other objects will become apparent upon a further description of the invention.

The invention consists of the general construction, arrangement, and combination of the several parts, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical longitudinal sectional view of my improved wrench; Fig. 2, a transverse vertical section through the sliding jaw, and Fig. 3 a perspective view of the follower.

Referring to the several views, the numeral 1 indicates the stationary jaw, which is integral with the handle 2, as is usual in this class of wrenches.

The numeral 3 indicates the sliding jaw, which is preferably made, for lightness and cheapness, from sheet metal "struck up," with an opening 4 extending longitudinally through the head or upper portion thereof for the reception of the handle and having the side of the lower portion securely closed to form the jaw, as shown in Fig. 2.

The numeral 5 indicates a slidable follower, preferably constructed of sheet metal bent over upon itself, as shown in Fig. 3. The follower is provided with ears 6, between which the jaw 3 is connected by means of a pin 7, passing through an elongated opening 8 in said jaw. As thus connected the jaw 3 will have a slight longitudinal movement on the handle when the parts are unlocked. The inner upper portion of the follower is provided with teeth 9, which are adapted to

engage with teeth 10 in the upper edge of the handle.

The numeral 11 indicates an operating-lever loosely pivoted between the sides of the follower by means of a pin 12, passing through an inclined slot 13 in the lever. The upper edge of the lever is provided with a recess 14, having an inclined side 15, adapted to operate against an oblong-shaped pin 16, passing through the sides of the follower. The lever is provided with a nose 17, which when the lever is being operated to lock the follower at any desired point presses against the head of a slidable pin 18, loosely secured in an inclined groove 19, made in the sliding jaw, to force the pin into contact with the under edge of the handle, so as to frictionally hold the slidable jaw on the handle, and thereby prevent longitudinal movement. A spring serves to force the follower into locked engagement with the teeth of the handle by exerting a downward pressure upon the follower when the lever is being moved toward the handle.

The operation of the device will be readily understood from the above description, it only being necessary to state that as the lever is pressed down toward the handle the incline 15, operating against the pin 16, tends to force the lever in a forward direction, causing its nose to impinge against the pin 18 and force it into contact with the under edge of the handle, thus locking the several parts firmly together, the slidable jaw in frictional contact and the follower in toothed engagement with the handle. The locked position of the several parts may be maintained by means of spring-catch 21, engaging the head 22 on the handle.

It will be obvious that the sliding jaw and the follower may be cast instead of being struck up from sheet metal, as described.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a wrench, the combination with a stationary jaw and a toothed or notched handle, of a slidable jaw provided with a slot, a toothed or notched follower provided with ears and connected to the slidable jaw by a pin passing through said ears and the slot,

an operating-lever loosely pivoted in the follower and provided with an inclined recess, and a pin or lug secured to the follower and adapted to be engaged by the inclined recess
 5 when the handle is operated, to give a forward movement to said handle.

2. In a wrench, the combination with a stationary jaw and a toothed or notched handle, of a slidable jaw loosely connected to a
 10 toothed or notched follower slidable on the handle, an operating-lever loosely pivoted to the follower, means for giving the lever a slight movement, and a slidable pin in the slidable jaw adapted to be engaged by the end
 15 of the lever in its forward movement, whereby a frictional contact is caused to be made between the slidable jaw and handle.

3. In a wrench, the combination with a stationary jaw and a toothed or notched handle, of a slidable jaw loosely connected to a
 20 toothed or notched follower slidable on the handle, an operating-lever loosely pivoted to the follower, means for giving the lever a slight forward movement, a pin slidable in the sliding jaw and adapted to be engaged by the
 25 end of the lever, and a spring adapted to maintain the follower, and thereby the sliding jaw into engagement with the handle.

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

GEORGE B. CARTER.

Witnesses:

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