

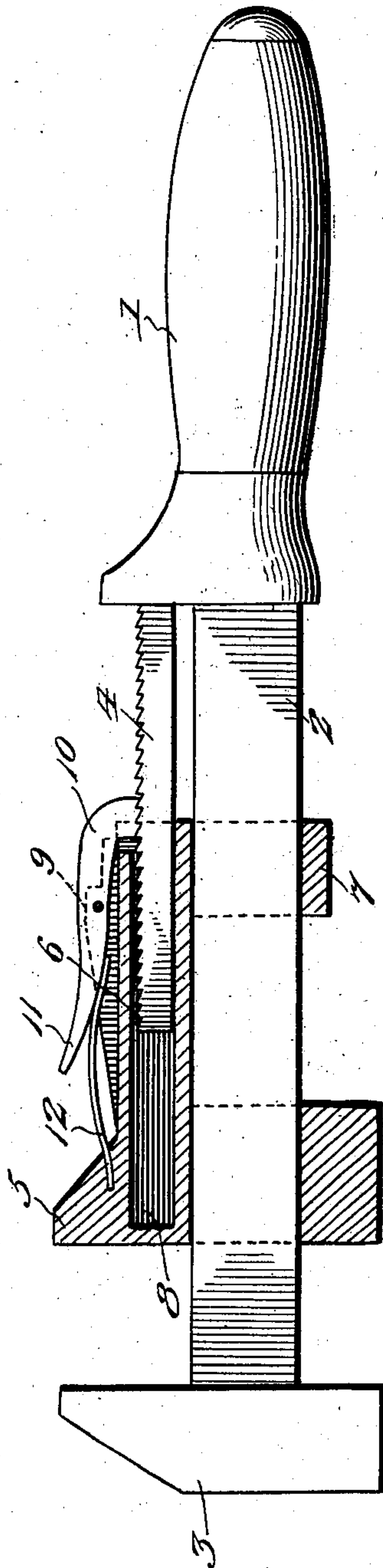
No. 751,416.

PATENTED FEB. 2, 1904.

W. J. RATCLIFF.  
WRENCH.

APPLICATION FILED APR. 11, 1903.

NO MODEL.



Witnesses

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## UNITED STATES PATENT OFFICE.

WALTER J. RATCLIFF, OF LANSFORD, PENNSYLVANIA.

## WRENCH.

SPECIFICATION forming part of Letters Patent No. 751,416, dated February 2, 1904.

Application filed April 11, 1903. Serial No. 152,246. (No model.)

*To all whom it may concern:*

Be it known that I, WALTER J. RATCLIFF, a citizen of the United States, residing at Lansford, in the county of Carbon and State of Pennsylvania, have invented new and useful Improvements in Wrenches, of which the following is a specification.

This invention relates to improvements in wrenches; and the object is to provide a simple and improved construction of wrench in which the movable jaw may be quickly adjusted and locked in its adjustment.

With the above objects in view the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claim, and clearly illustrated by the accompanying drawing, which illustrates my improved wrench in side elevation with the sliding jaw in section.

Referring now more particularly to said drawing, 1 designates the handle of the wrench, carrying the shank 2, upon the other end of which the fixed jaw 3 is formed. Projecting forward from the handle toward the fixed jaw is a ratchet-bar 4, having a series of ratchet-teeth formed upon its outer edge. Said bar is disposed parallel with the inner edge of the shank.

The numeral 5 designates the movable jaw, which is slotted to receive the shank of the fixed jaw, upon which it is slidable, said sliding jaw being formed with a longitudinally-extending portion or shank 6, having at its end a yoke 7, which embraces the shank 2. The longitudinally-extending portion or shank 6 is disposed upon the same edge of the shank 2 as the ratchet-bar and is formed with a longitudinally-extending cavity 8 to receive the ratchet-bar as the sliding jaw is moved back and forth upon the shank of the fixed jaw.

The shank 6 is formed upon its outer side with parallel lugs 9, between which a locking-pawl 10 is pivoted. Said pawl has a toothed portion to engage the teeth of the ratchet-bar and is formed with a thumb portion 11, by means of which its engaging end may be disengaged from the ratchet-teeth when it is de-

sired to move the sliding jaw away from the fixed jaw. A spring 12, having one end fixed in the jaw 5 and its opposite end bearing against the under side of the thumb portion 11 of the pawl, serves to hold the engaging end of the pawl normally in engagement with the ratchet-bar.

To adjust the wrench, the sliding jaw may be moved forward by pushing upon it with the finger or thumb, the pawl slipping over the ratchet-teeth and moved rearwardly by disengaging the pawl from the ratchet-bar. The length of the ratchet-bar is sufficient to permit the jaws to be brought in contact and short enough to afford a sufficient adjustment to adapt the wrench for use upon large nuts.

From the above description it will be seen that I have produced a wrench which is very simple and inexpensive in construction and which may be quickly and readily adjusted for use.

Having thus fully described the invention, what is claimed as new is—

A wrench comprising a shank having a rigid jaw on one end and a handle on its opposite extremity, the shank having its opposite edges smooth, a ratchet-bar rigid with the handle and projecting over one edge of the shank and parallel with the latter, the ratchet-bar being spaced apart from the shank and having forwardly-inclined teeth in its outer edge, a slidable jaw on the shank having a longitudinal socket in one side thereof to receive and inclose the ratchet-bar, and a rearwardly-projecting spring-actuated pawl having its rear terminal extending over the rear end of the slidable jaw and normally held in engagement with the teeth of the ratchet-bar, the inclosure of the ratchet-bar within the slidable jaw strengthening said bar.

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

WALTER J. RATCLIFF.

Witnesses:

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