

No. 850,315.

PATENTED APR. 16, 1907.

N. W. RASNICK.

WRENCH.

APPLICATION FILED DEC. 3, 1906.

Fig. 1.

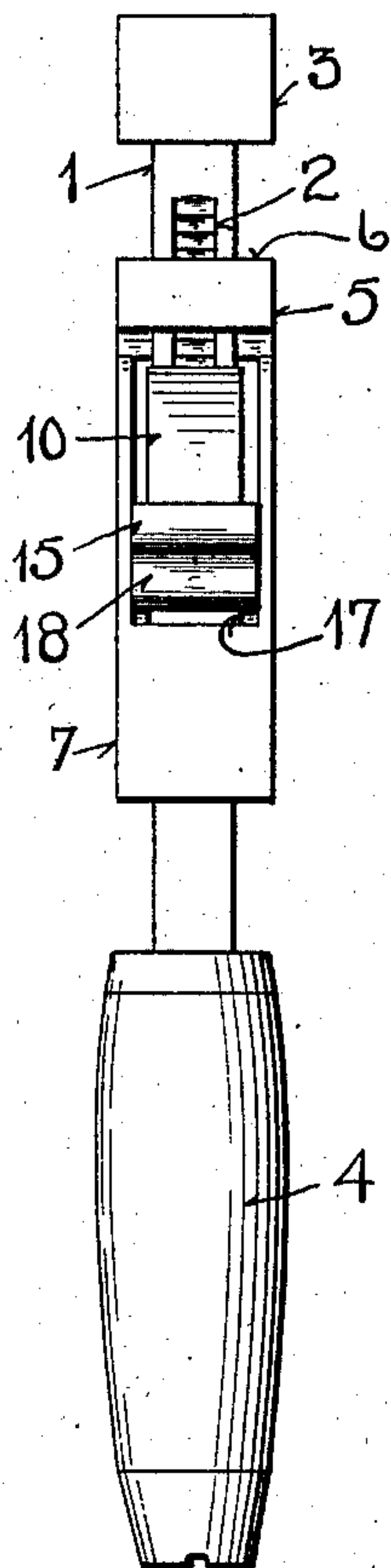


Fig. 2.

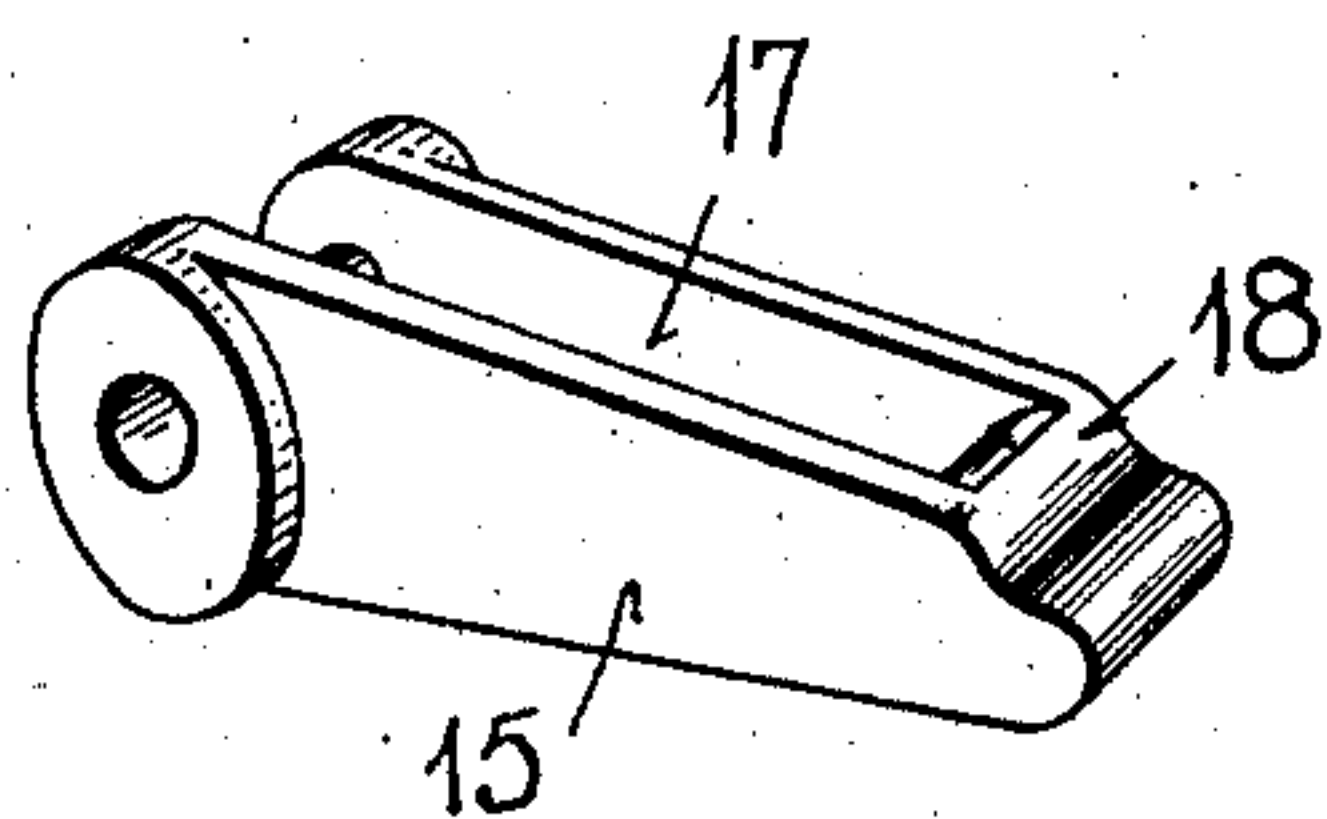
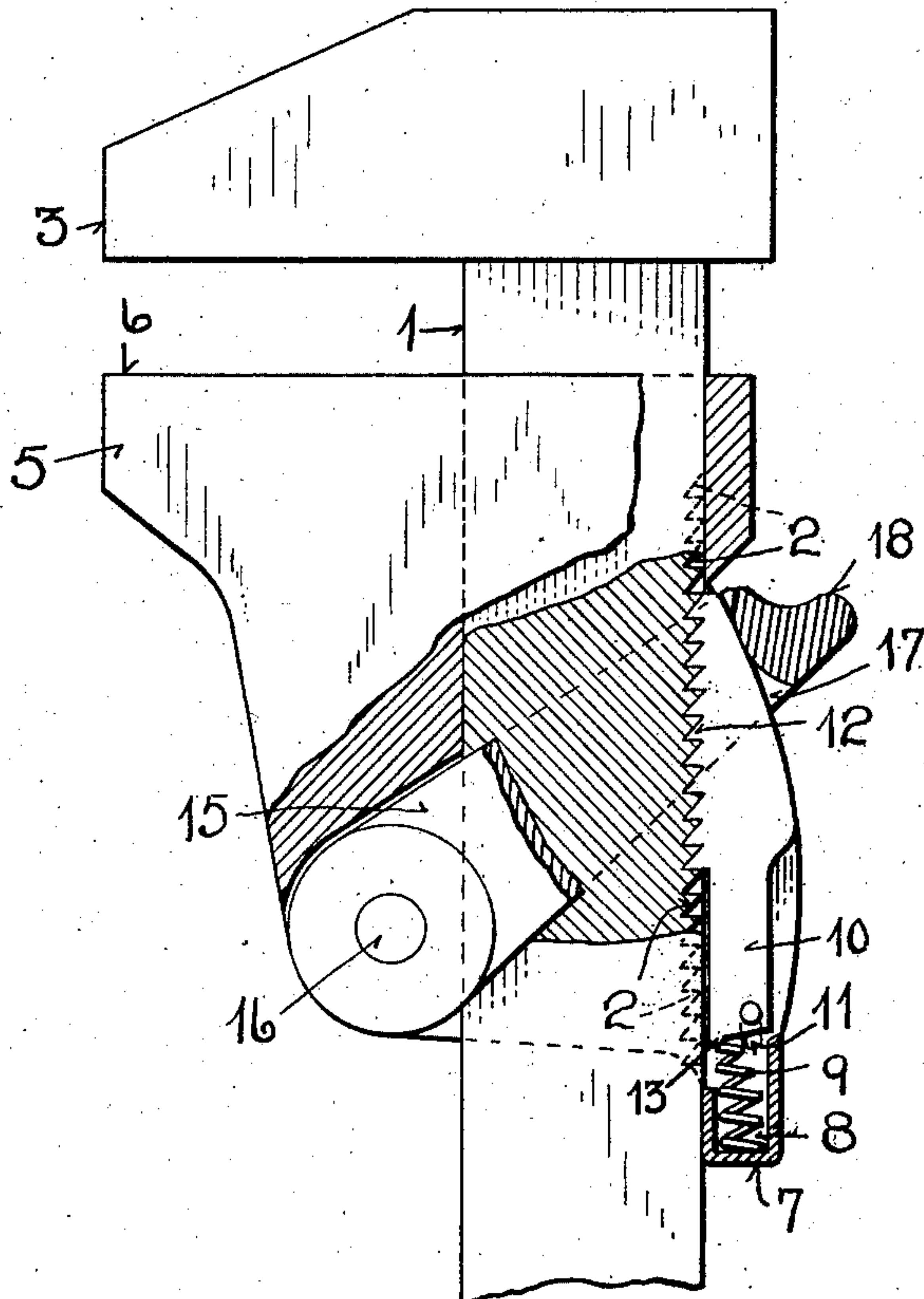


Fig. 4.

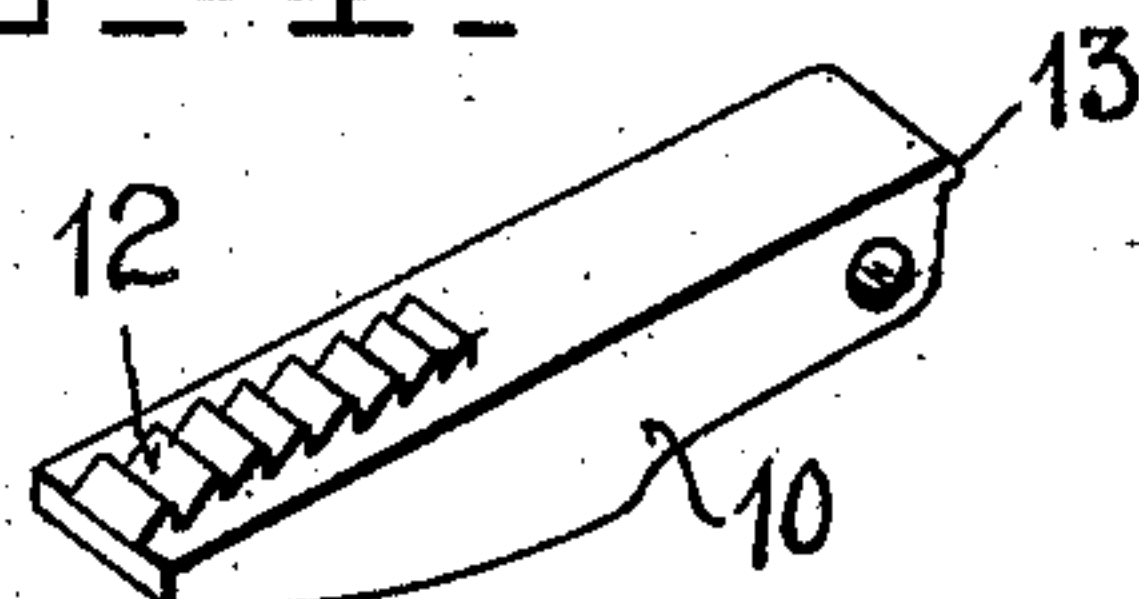


Fig. 3.

Witnesses  
L. B. James  
C. H. Griesbauer.

Inventor  
Noah W. Rasnick

by *A. B. Wilson & Co.*  
Attorneys



# UNITED STATES PATENT OFFICE.

NOAH W. RASNICK, OF DICKENSON COUNTY, VIRGINIA.

## WRENCH.

No. 850,315.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed December 3, 1906. Serial No. 346,111.

*To all whom it may concern:*

Be it known that I, NOAH W. RASNICK, a citizen of the United States, residing in the county of Dickenson and State of Virginia, have invented certain new and useful Improvements in Wrenches; and I do 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 ap-  
10 pertains to make and use the same.

This invention relates to an improved wrench.

The object of the invention is to so construct a wrench that it may be quickly and  
15 accurately adjusted with one hand.

Other objects of the invention are to provide a wrench that is quick and accurate in adjustment and will not slip back accidentally after adjustment and which is not liable  
20 to mar the material on which it is used.

In the accompanying drawings, Figure 1 represents a rear elevation of a wrench embodying this improvement, showing the adjusting-lever in released position. Fig. 2  
25 represents a side elevation, partly in section, of a wrench having this improvement applied, the handle portion being broken off. Fig. 3 represents a perspective view of the locking-lever detached; and Fig. 4 represents  
30 a detail of a portion of a wrench, showing the cam member swung outwardly.

In the embodiment illustrated a wrench is shown having a shank 1 with ratchet-teeth 2 on its rear edge and a fixed jaw 3 of ordinary  
35 rectangular construction. The shank 1 is also provided with a handle member 4 of ordinary construction.

A movable jaw 5 is slidably mounted on the shank 1 and has a clamping-face 6 to  
40 cooperate with the fixed jaw 3. This jaw 5 is hollow throughout the greater portion thereof and has a projecting end 7 with a socket 8 therein, in which is housed a coil-spring 9. The rear edge of the jaw 5 is cut  
45 away above said socket to a point near its top, and a cam member 10 is pivotally mounted in slots 11 in the jaw 5, with the cam-face thereof projecting slightly beyond the walls of the rear opening in said jaw. The slots  
50 11 permit the cam member to move longitudinally a short distance when the lever is moved back and forth. This cam member 10 is provided on its straight inner face with ratchet-teeth 12, which are adapted to en-  
55 gage the teeth 2 of the shank 1. A lever or link 15 is pivotally connected to the jaw 5 at

16 and has a slotted opening 17 therein, which straddles the shank 1 and cam member 10 and has its free end projecting to form an operating finger-piece 18. The  
60 pivot end of the cam member 10 is preferably provided with a lug 13, against which the upper end of the spring 9 bears.

In the use of this device when it is desired to move the jaw 5 back and forth the lever  
65 15 is drawn downward by pressing on its end 18 until it comes in contact with the pivot of the cam member 10, and the pressure of the spring 9 against said cam member 10 forces its teeth out of engagement with the  
70 teeth 2 and releases the jaw 5, so that it may be moved to any desired point.

To move the jaw 5 to clamp an article between it and the fixed jaw, the thumb is placed against the end 7 and the jaw is  
75 pushed forward until it engages the article to be clamped. The thumb is then slipped forward and the lever 15 pushed forward on the cam 10 until the teeth thereof are locked in engagement with the teeth 2, and the jaw is  
80 firmly locked in position.

I claim as my invention—

1. In a wrench, the combination of a shank having a fixed jaw and ratchet-teeth on its rear edge, a movable jaw slidable on said  
85 shank and having a cam member pivoted therein and provided with teeth to engage the shank-teeth, and a locking-lever pivoted to said movable jaw and cut out to straddle said shank and cam member, the end wall of  
90 said cut-out portion engaging said cam member to lock it to said shank.

2. In a wrench, the combination of a shank having a fixed jaw and ratchet-teeth on its rear edge, a movable jaw slidable on said  
95 shank and having a cam member pivoted therein and provided with teeth to engage the shank-teeth, said cam member being pivoted in slots in said jaw, and a locking device pivoted to said movable jaw and having  
100 means to engage said cam member to lock it in engagement with the shank.

3. In a wrench, the combination of a shank having a fixed jaw with ratchet-teeth on one edge thereof, a hollow movable jaw slidable  
105 on said shank with the edge thereof adjacent the toothed edge of the shank cut out, a toothed cam member pivoted in said movable jaw with its cam-face projecting beyond the edges of said cut-out portion and with its  
110 tooth in position to engage the teeth of the shank, a slotted locking-lever pivoted to said



movable jaw and straddling said shank and cam member and provided at its free end with a finger-piece projecting through the opening in said movable jaw.

- 5 4. In a wrench, the combination of a shank having a fixed jaw with ratchet-teeth on one edge thereof, a hollow movable jaw slidable on said shank with the edge thereof adjacent the toothed edge of the shank cut out, a  
10 toothed cam member pivoted on said movable jaw with its cam-face projecting beyond the edges of said cut-out portion and with its tooth in position to engage the teeth of the  
15 member and a spring housed in said movable

jaw with one end engaging said lug and bearing on said cam member and a slotted locking-lever pivoted to said movable jaw and straddling said shank and cam member and provided at its free end with a finger-piece  
20 projecting through the opening in said movable jaw.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

NOAH W. RASNICK.

Witnesses:

WILEY E. COMPTON,  
ORA R. EVANS.