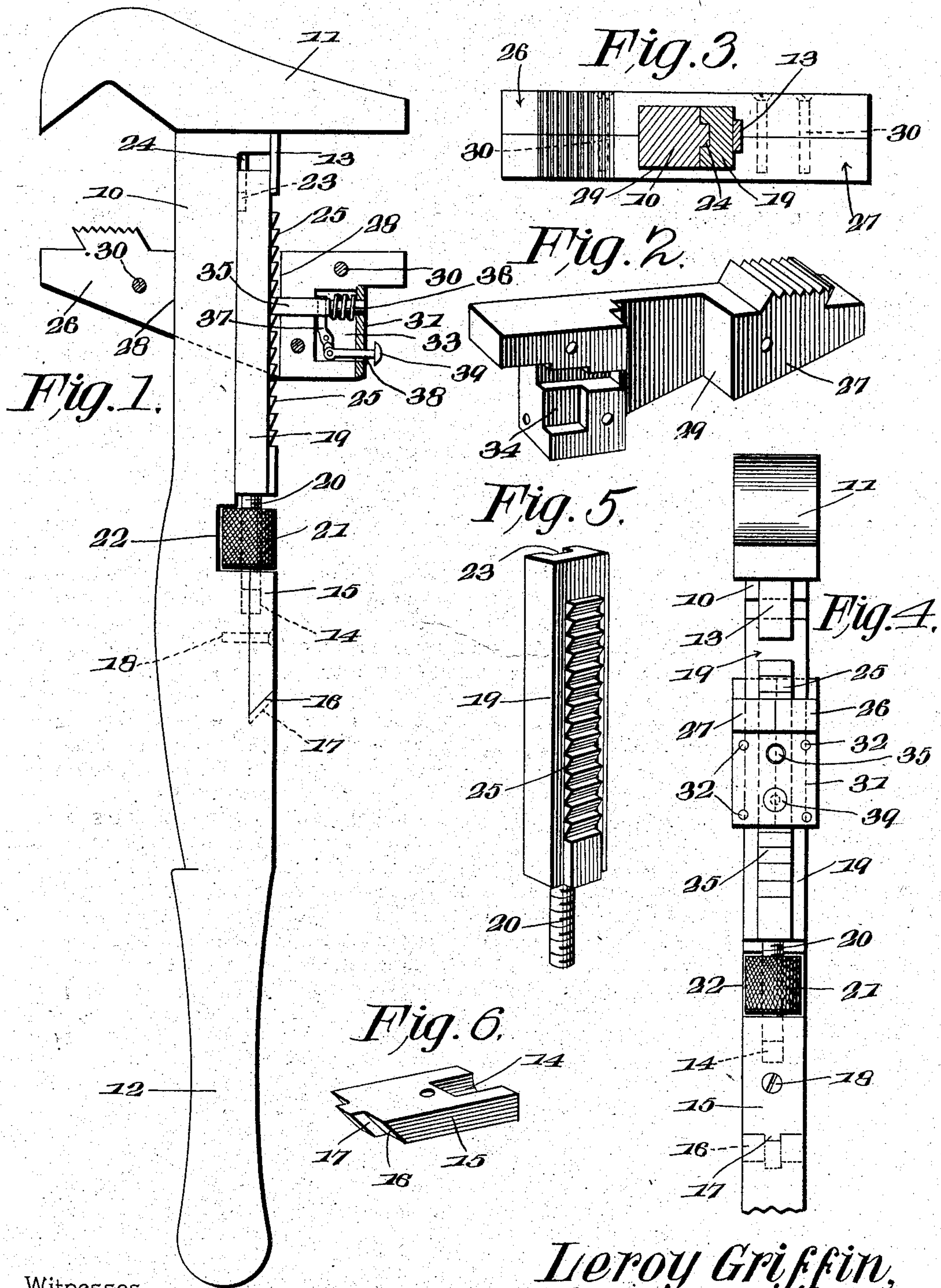


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PATENTED JAN. 31, 1905.

L. GRIFFIN.  
WRENCH.

APPLICATION FILED OCT. 27, 1904.



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# UNITED STATES PATENT OFFICE.

LEROY GRIFFIN, OF WHIGHAM, GEORGIA.

## WRENCH.

SPECIFICATION forming part of Letters Patent No. 781,515, dated January 31, 1905.

Application filed October 27, 1904. Serial No. 230,243.

*To all whom it may concern:*

Be it known that I, LEROY GRIFFIN, a citizen of the United States, residing at Whigham, in the county of Decatur and State of Georgia, have invented a new and useful Wrench, of which the following is a specification.

This invention relates to improvements in wrenches of the quick-action class, and has for its object to improve the construction and increase the efficiency of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings thus employed, Figure 1 is a side elevation with one of the movable jaw members detached, and Fig. 2 is a perspective view of the detached jaw member. Fig. 3 is a transverse section of Fig. 1 with both of the movable jaw-sections in position. Fig. 4 is a rear elevation of the upper portion of the improved wrench. Fig. 5 is a detached perspective view of the adjustable notched bar. Fig. 6 is a detached perspective view of the clamp-block by which the lower end of the notched bar is secured.

The improved implement comprises a stock 10, having a stationary jaw 11 at one end and with the other end extended into a handle 12, the jaw 11 being preferably extended laterally upon both sides of the stock, one side for engaging pipes or rods and the other side for nuts or other similar objects. A guideway 13 is formed upon the stock adjacent to the jaw member 11, and another guideway, 14, at the juncture of the handle and stock, the lat-

ter guideway being preferably formed one half in the body of the stock and the other half in the inner face of a detachable plate 15. The lower end of the plate 15 is inclined, as at 16, and provided with a rib 17 on the inclined portion thereof for engagement with a correspondingly-inclined recess in the stock, so that one screw, as at 18, will be sufficient to hold the plate in position.

Movably disposed upon one face of the stock 10 is a bar 19, slidably engaging the guideway 13 by one end and with a threaded stud 20 extending from the other end and slidably engaging the guideway 14. A nut 21, preferably provided with a milled exterior, operates upon the stud 20 and rotates in a recess 22 in the stock 10. The bar 19 is provided at one end with a recess 23 for engaging a rib 24 within the guideway 13 and is likewise provided with spaced notches or ratchet-teeth 25 on its outer face.

The movable jaw is formed in two sections 26 27, said sections being precisely alike, except that they are rights and lefts. The sections 26 27 are provided with internal recesses 28 29 for receiving the stock 10 and its associated bar member 19 and are firmly united for slidable movement on the stock 10 by transverse bolts or rivets 30 and a clamp-plate 31 secured, as by screws 32, over one end. The jaw-sections 26 27 are formed with bearing-surfaces corresponding to the bearing-surfaces upon the jaw 11 and are also provided with recesses 33 34 in one end next to and covered by the plate 31. The jaw members 26 27 are also provided with apertures at right angles to the recesses 33 34 to receive a bolt 35, said bolt having one end thereof inclined and its opposite end engaging an aperture in the plate 31, by which means it is guided for longitudinal movement. The bolt is provided with a coiled spring 36, by means of which the inclined end is held in yieldable engagement with the teeth 25 of the bar 19. A trip-lever 37 is pivoted in the recesses 33 34. One end of the trip-lever 37 passes through an aperture in the bolt 35, and the opposite end thereof is pivoted to a pin 38, which engages an aperture in the plate 31 and is provided with a terminal button 39. By this arrange-



ment it will be obvious that the movable jaw member will be firmly held from movement in one direction, but free to be moved in the opposite direction by reason of the inclined  
5 form of the teeth 25 and inner end of the bolt 35 and readily released for adjustment in the opposite direction by slight pressure of the thumb of the operator upon the button 39.

The jaw members 26 27 overhang the plate  
10 31, so that the protruding stem 38 and its button 39 are protected while the wrench is being used.

If a closer adjustment is required than can be secured by the spaces between the teeth or  
15 notches 25, a few turns of the nut 21 will adjust the bar 19 longitudinally of the stock carrying the jaw members therewith, as will be obvious.

Having thus described the invention, what  
20 is claimed is—

1. In a wrench, a stock provided at one end with a stationary jaw and having its opposite end extended into a handle, said stock being provided on one side thereof with spaced longitudinal guideways and having a lateral recess formed in the stock in alinement with  
25 said guideways; a notched bar one end of which engages one of said guideways the opposite end thereof being provided with a threaded stud for engagement with the second  
30 guideway, a nut disposed in the lateral recess and engaging the threaded stud, a movable jaw, a spring-controlled pawl carried by said movable jaw and yieldably engaging said  
35 notched bar, and means for releasing said pawl.

2. In a wrench, a stock provided at one end with a stationary jaw and having its opposite end extended into a handle, said stock being  
40 provided on one side thereof with spaced longitudinal guideways and having a lateral recess formed in the stock in alinement with said guideways, a notched bar one end of which engages one of said guideways the opposite

end thereof being provided with a threaded  
45 stud for engagement with the second guideway, a nut disposed in the lateral recess and engaging the threaded stud, a movable jaw embracing the stock and notched bar and formed of a plurality of sections detachably secured  
50 together, a spring-controlled pawl carried by said movable jaw and adapted to engage the notches in said bar, and means for releasing the pawl.

3. In a wrench, a stock provided at one end  
55 with a stationary jaw and having its opposite end extended into a handle, said stock being provided at one side thereof with spaced longitudinal guideways and having a lateral recess formed in the stock in alinement with said  
60 guideways, a notched bar one end of which engages one of said guideways the opposite end thereof being provided with a threaded stud for engagement with the second guideway, a nut disposed in the lateral recess and engaging the  
65 threaded stud, a movable jaw embracing the stock and notched bar and formed in two sections detachably secured together, said jaw-sections having terminal recesses formed in their contiguous faces, a plate provided with  
70 spaced apertures extending across said recesses and connected to both jaw-sections, a spring-controlled pawl carried by said jaw-sections and passing through one of the apertures in said plate for engagement with the  
75 notched bar, a trip-lever pivoted in said recesses and engaging an aperture in the spring-pawl, and a trip-pin passing through the second aperture in the plate and pivoted to the  
80 trip-lever.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

LEROY GRIFFIN.

Witnesses:

A. S. POWELL,  
D. O. PEARCE.